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FOR REVIEW AND DISCUSSION  
SUBJECT TO CHANGE

DEVELOPMENT AND IMPACT OF  
IMPLEMENTING FY91 (VERSION 8) CHAMPUS  
DRG WEIGHTS AND OUTLIER CRITERIA

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## FOREWORD

This report presents the development of FY91 (Version 8) Diagnosis Related Group (DRG) Grouper case weights, trim points, and geometric means of length of stay (GLOS) that will be implemented in computing FY91 inpatient workload and case-mix indices (CMIs) within the Military Health Services System (MHSS). Additionally, the impact of implementing the updated grouper and associated weights and outlier criteria is reviewed.

This document was prepared under contract MDA93-88-C-0147. Questions or comments regarding this report should be directed to LTC Stuart Baker, OASD(HA) Resource Analysis and Management Systems, (703) 756-1918.



CONTENTS

<u>Section</u>	<u>Page</u>
1.0 INTRODUCTION AND EXECUTIVE SUMMARY . . . . .	1-1
1.1 Introduction . . . . .	1-1
1.2 Development of Version 8 Case Weights and Outlier Criteria. . . . .	1-4
1.3 Impact of Updating to the Version 8 DRG Grouper . . . . .	1-6
1.4 FY91 Inpatient Work Unit (IWU) Adjustment Factor. . . . .	1-23
2.0 DEVELOPMENT OF FY91 VERSION 8 DRG WEIGHTS AND OUTLIER CRITERIA . . . . .	2-1
3.0 IMPACT OF THE GROUPER UPDATE AT CLINICAL AND DEMOGRAPHIC LEVELS. . . . .	3-1
4.0 IMPACT OF THE GROUPER UPDATE AT FACILITY AND PEER GROUP LEVELS . . . . .	4-1
APPENDIX A . . . . .	A-1

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Justification	
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Availability	
Dist	Availability of Special
A-1	

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## LIST OF EXHIBITS

<u>Number</u>	<u>Title</u>	<u>Page</u>
1-1	Histogram of Percentage Change in Version 4 DRG Case Weight Versus Version 8 DRG Case Weight	1-8
1-2	Histogram of Percentage Change in Version 4 Direct Care Geometric Mean Length of Stay (GLOS) Versus Version 8 CHAMPUS GLOS	1-9
1-3	Histogram of Absolute Difference Between Version 4 Direct Care High Trim Point and Version 8 CHAMPUS High Trim Point	1-10
1-4	Histogram of Absolute Difference Between Version 4 Direct Care Low Trim Point and Version 8 CHAMPUS Low Trim Point	1-11
1-5	Summary of Methodologies for Computing RWPs and CMIs	1-12
1-6	Comparison of FY90 RWPs and CMIs by Clinical Area Using Version 4 Versus Version 8 Weights and Outlier Criteria	1-15
1-7	Comparison of FY90 RWPs and CMIs by MDC Using Version 4 Versus Version 8 Weights and Outlier Criteria	1-16
1-8	Histogram of Percentage Change in Facility FY90 CMIs Using Version 4 Versus Version 8 Weights and Outlier Criteria	1-18
1-9	Histogram of Percentage Change in Army Facility CMIs Using Version 4 Versus Version 8 Weights and Outlier Criteria	1-19
1-10	Histogram of Percentage Change in Navy Facility CMIs Using Version 4 Versus Version 8 Weights and Outlier Criteria	1-20
1-11	Histogram of Percentage Change in USAF Facility CMIs Using Version 4 Versus Version 8 Weights and Outlier Criteria	1-21
1-12	Comparison of FY90 RWPs and CMIs by Model Peer Group Using Version 4 Versus Version 8 Weights and Outlier Criteria	1-22
2-1	FY91 Version 8 DRG Grouper Case Weights With CHAMPUS Outlier Criteria	2-4
3-1	Version 4 Case Weights With Direct Care Outlier Criteria Versus Version 8 Weights With CHAMPUS Outlier Criteria	3-2
3-2	Histogram of Percentage Change in Version 4 DRG Case Weight Versus Version 8 DRG Case Weight	3-12
3-3	Histogram of Percentage Change in Version 4 Direct Care Geometric Mean Length of Stay (GLOS) Versus Version 8 CHAMPUS GLOS	3-13
3-4	Histogram of Absolute Difference Between Version 4 Direct Care High Trim Point and Version 8 CHAMPUS High Trim Point	3-14

LIST OF EXHIBITS  
(Concluded)

<u>Number</u>	<u>Title</u>	<u>Page</u>
3-5	Histogram of Absolute Difference Between Version 4 Direct Care Low Trim Point and Version 8 CHAMPUS Low Trim Point	3-15
3-6	Summary of Methodologies for Computing RWPs and CMIs	3-17
3-7	Comparison of FY90 RWPs and CMIs by Clinical Area Using Version 4 Versus Version 8 Weights and Outlier Criteria	3-20
3-8	Comparison of FY90 RWPs and CMIs by MDC Using Version 4 Versus Version 8 Weights and Outlier Criteria	3-22
3-9	Histogram of Percentage Change in FY90 DRG CMI Using Version 4 Versus Version 8 Weights and Outlier Criteria	3-24
3-10	Comparison of FY90 RWPs and CMIs by Beneficiary Status Using Version 4 Versus Version 8 Weights and Outlier Criteria	3-25
3-11	Comparison of FY90 RWPs and CMIs by Sex and Age Group Using Version 4 Versus Version 8 Weights and Outlier Criteria	3-26
4-1	Histogram of Percentage Change in Facility FY90 CMIs Using Version 4 Versus Version 8 Weights and Outlier Criteria	4-2
4-2	Histogram of Percentage Change in Army Facility CMIs Using Version 4 Versus Version 8 Weights and Outlier Criteria	4-3
4-3	Histogram of Percentage Change in Navy Facility CMIs Using Version 4 Versus Version 8 Weights and Outlier Criteria	4-4
4-4	Histogram of Percentage Change in USAF Facility CMIs Using Version 4 Versus Version 8 Weights and Outlier Criteria	4-5
4-5	Comparison of FY90 RWPs and CMIs by Model Peer Group Using Version 4 Versus Version 8 Weights and Outlier Criteria	4-7
4-6	Comparison of FY90 RWPs and CMIs for Army Facilities Using Version 4 Versus Version 8 Weights and Outlier Criteria	4-8
4-7	Comparison of FY90 RWPs and CMIs for Navy Facilities Using Version 4 Versus Version 8 Weights and Outlier Criteria	4-9
4-8	Comparison of FY90 RWPs and CMIs for Air Force Facilities Using Version 4 Versus Version 8 Weights and Outlier Criteria	4-10
A-1	Comparison of FY90 RWPs and CMIs by DRG Using Version 4 Versus Version 8 Weights and Outlier Criteria (Presented in DRG Order)	A-2
A-2	Comparison of FY90 RWPs and CMIs by DRG Using Version 4 Versus Version 8 Weights and Outlier Criteria (Presented in Order of Percentage Difference in CMI)	A-12



## 1.0 INTRODUCTION AND EXECUTIVE SUMMARY

This report presents the development of FY91 (Version 8) Diagnosis Related Group (DRG) Grouper case weights, trim points, and geometric means of length of stay (GLOS) that will be implemented in computing FY91 inpatient workload and case-mix indices (CMIs) within the Military Health Services System (MHSS). Additionally, the impact of implementing the Version 8 DRG Grouper and associated weights and outlier criteria is reviewed. Section 1.1 provides an introduction including a summary of data sources, the study methodology, and benefits and other issues concerning updating the DRG Grouper. Section 1.2 summarizes the development of the FY91 (Version 8) DRG case weights and outlier criteria. Section 1.3 discusses the impact of updating the grouper. Lastly, section 1.4 presents the FY91 inpatient work unit (IWU) adjustment factor that will be used to preserve the comparability of IWUs derived using different groupers, case weights, and outlier criteria.

### 1.1 INTRODUCTION

From FY85 through FY90, the MHSS used the FY87 (Version 4) DRG Grouper and FY88 weights with minor modifications as published by Civilian Health and Medical Program of the Uniformed Services (CHAMPUS). To compute direct care facility workload, however, trim points and GLOS specific to the direct care component of the MHSS were developed and implemented. For FY91, and future years, current MHSS policy is to

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<sup>1</sup>For simplicity, the term outlier criteria will be used in collective reference to outlier high and low trim points and geometric means of length of stay (GLOS). Note that what CHAMPUS refers to as outlier thresholds in the **Federal Register**, are commonly referred to as trim points within the direct care system.

update the DRG grouper to the grouper employed within CHAMPUS and to use the CHAMPUS published outlier criteria and case weights with minor modifications. This report documents the impact of this policy decision and presents information that will facilitate comparison of workload computed using the different grouper versions.

The adaptation of CHAMPUS outlier criteria has several benefits including:

- the FY91 (Version 8) DRG Grouper and associated weights and outlier criteria will reflect more current care patterns and the relative costs and lengths of stay associated with each DRG;
- removes the necessity of computing and publishing direct care specific outlier criteria;
- improves the comparability of inpatient workload computed for both systems especially when considered under the Coordinated Care Program (CCP) or similar utilization and cost management functions; and
- the FY91 (Version 8) CHAMPUS outlier criteria are defined such that fewer cases receive long stay outlier credit and thus, there is increased incentive to minimize lengths of stay.

The adoption of CHAMPUS FY91 (Version 8) DRGs and outlier criteria necessitates the adjustment of inpatient work units (IWUs) to ensure comparability at the DoD-level over time. This adjustment facilitates longitudinal comparisons of IWUs irrespective of DRG version or outlier criteria changes.

For this review, FY90 Service Biometrics inpatient data, reverse grouped using the FY87 (Version 4) DRG Grouper, were used as a basis for computing what are referred to as the Version 4 direct care outlier criteria. Additionally, FY88 DRG case weights, as published by CHAMPUS<sup>1</sup>, with minor modifications, were applied in combination with the Version 4 direct care outlier criteria to compute what are referred to

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<sup>1</sup>CHAMPUS Version 4 weights were published in the Federal Register, Vol 52, No. 169, Tuesday, September 1, 1987.

as Version 4 relative weighted products (RWPs) and case-mix indices (CMIs)<sup>1</sup>.

FY91 CHAMPUS (Version 8) case weights and outlier criteria were obtained from the **Federal Register**<sup>2</sup>. These data were also published in the **CHAMPUS Policy Manual**<sup>3</sup>. These weights and outlier criteria were used to compute what are called Version 8 RWPs and CMIs using FY90 Service Biometrics data. As a result, the FY90 data were grouped using both Version 4 and 8 Groupers such that the only difference in RWPs and CMIs may be attributable to differences in the grouper software, case weights, and outlier criteria, rather than changes in medical practice, policy, or care patterns.

Note that the CHAMPUS outlier criteria are based on CHAMPUS claims and reflect care patterns within the CHAMPUS system. These care patterns may differ at the DRG level from practice patterns within military medical treatment facilities (MTFs) in the direct care system. Thus, substantial differences between direct care and CHAMPUS observed arithmetic means of length of stay and GLOS do exist. Prior to discussing the impact on observed workload due to updating to the FY91 (Version 8) DRG Grouper, the next section summarizes the development of Version 8 DoD case weights and outlier criteria.

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<sup>1</sup> For the purposes of this study, revised FY90 Version 4 DRG outlier criteria were used. These criteria were corrected to exclude 1 day transfers from the analysis data set prior to criteria estimation. Thus, the criteria and RWP results presented here may differ slightly from that reported elsewhere. However, the overall DoD impact is relatively minor and workload differences are restricted to a 0.6% decrease in RWPs when using revised criteria.

<sup>2</sup> CHAMPUS weights, thresholds, and GLOS were published in the **Federal Register**, Vol. 55, No. 214, Monday, November 5, 1990, pp. 46547-46557. Note that long-stay threshold (A) was used as applies to hospitals other than pediatric hospitals.

<sup>3</sup> CHAMPUS 6010.47-M, **CHAMPUS Policy Manual**, Volume II (Program Policy), Chapter 3, Addendum 7, 24 January 1991, pp 1-22.

## 1.2 DEVELOPMENT OF VERSION 8 CASE WEIGHTS AND OUTLIER CRITERIA

This section presents a summary of the development of FY91 (Version 8) case weights and outlier criteria. The process summarized here is described in greater detail in chapter 2.0 of this paper. Note that the weights presented in this paper are the same as those presented in **Development of FY91 (Version 8) DoD Diagnosis Related Groups (DRG) Weights and Trim Points**, (VRI-DMIS-2.60 WN91-4, Vector Research Incorporated, 9 January 1992). Outlier criteria in this paper, however, are those published by CHAMPUS for the FY91 (Version 8) DRG Grouper and differ from those published in the earlier document.

As with the original DoD DRG weight development, this effort adopted CHAMPUS weights, with some modifications. Modifications were made for the following sets of DRGs:

- DRGs for which CHAMPUS directly adopted Medicare weights; and
- DRGs for which CHAMPUS does not reimburse according to DRGs.

CHAMPUS directly adopted Medicare weights for 14 DRGs that had sample sizes that were too small in CHAMPUS for unique weight computation.<sup>1</sup>

The CHAMPUS FY91 (Version 8) DRG Grouper was the same as that employed by the FY91 Medicare PPS system, with two key differences:

- the CHAMPUS system replaced the Medicare DRG 435 (Alcohol/Drug Dependence, Detox, and/or Other Symptomatic Treatment), with two age-based DRGs (900 and 901); and
- the CHAMPUS system replaced the Medicare neonatal DRGs 385 through 390 with 34 neonatal DRGs, with the expanded number of DRGs resulting from the addition of birthweight as part of the DRG definition for these DRGs.

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<sup>1</sup> Medicare weights were published in the **Federal Register**, Vol. 55, No.171, Tuesday, September 4, 1990, pp. 36111-36124.

The DRGs for which CHAMPUS directly adopted Medicare weights are presented in the following table.

<u>DRG</u>	<u>Description</u>
38	Primary Iris Procedures
317	Admit for Renal Dialysis
328	Urethral Stricture Age > 17 with CC
330	Urethral Stricture Age 0-17
342	Circumcision Age > 17
351	Sterilization, Male
412	History of Malignancy w/o Endoscopy
436	Alcohol/Drug Dependence with Rehabilitation Therapy
456	Burns, Transferred to Another Acute Care Facility
465	Aftercare with History of Malignancy as Secondary Diagnosis
472	Extensive Burns with O.R. Procedure
481	Bone Marrow Transplant
484	Craniotomy for Multiple Significant Trauma
488	HIV with Extensive O.R. Procedure

In adopting the Medicare weights for these DRGs, CHAMPUS did not account for the fact that on average CHAMPUS weights were about 16 percent higher than Medicare weights. In adopting the CHAMPUS weights for use in the DoD DRG-based resource allocation system, these weights were adjusted in order to maintain the relative resource intensity differences between these DRGs and those for which CHAMPUS computed CHAMPUS-unique weights. The two DRGs that CHAMPUS exempted from DRG-based payments in FY91 are presented in the following table.

<u>DRG</u>	<u>Description</u>
103	Heart Transplant
480	Liver Transplant

The Health Care Financing Administration (HCFA) published FY91 Medicare weights for these two DRGs, which served as the source for implementation in computing FY91 DoD workload. However, as noted previously, the overall average FY91 CHAMPUS DRG weight was about 16 percent greater than the overall average FY91 Medicare DRG weight. Therefore, the Medi-

care weights for these DRGs were adjusted in the same manner as those directly adopted from Medicare by CHAMPUS.

The precise manner of the DRG weight adjustment was as follows. The average DRG weights for both CHAMPUS and Medicare were computed for those DRGs that CHAMPUS and Medicare had in common and for which they computed their own weights. Therefore, the DRGs in the tables above were left out of this computation, as were CHAMPUS DRGs 600 through 636, 900 and 901, and Medicare DRGs 385 through 390, and 435. The average HCFA weight, after these exclusions, was 1.1976. The average CHAMPUS weight was 1.3901. Therefore, the average CHAMPUS weight was 16.07% higher than the average HCFA weight. Consequently, the Medicare weights for the DRGs in the tables above were multiplied by 1.1607 before they were adopted as DoD DRG weights. Weights for all other DRGs were adopted as published by CHAMPUS.

Values for the high and low thresholds (or trim points) and GLOS for all DRGs were adopted as published by CHAMPUS without adjustment. Note that for DRGs 103 - Heart Transplant, and 480 - Liver Transplant, CHAMPUS did not publish GLOS and thresholds as these DRGs are exempt from reimbursement. For these two DRGs, the high thresholds and GLOS published by Medicare for the PPS were adopted without adjustment. A low threshold of 1 was assigned for these DRGs as Medicare does not use low thresholds.

### 1.3 IMPACT OF UPDATING TO THE VERSION 8 DRG GROUPER

This section summarizes the impact of updating from the FY87 (Version 4) DRG Grouper and FY88 weights with direct care-specific outlier criteria to the FY91 (Version 8) DRG Grouper applied with CHAMPUS FY91 published weights and outlier criteria. Exhibits 1-1

through 1-4 are histograms that provide a comparison of DRG case weights, GLOS, high trim points, and low trim points, respectively. It is important to note that CHAMPUS uses a slightly different methodology to compute outlier criteria from that used previously for computing direct care outlier criteria. Two basic differences between the FY91 CHAMPUS outlier criteria methodology and the former direct care methodology are:

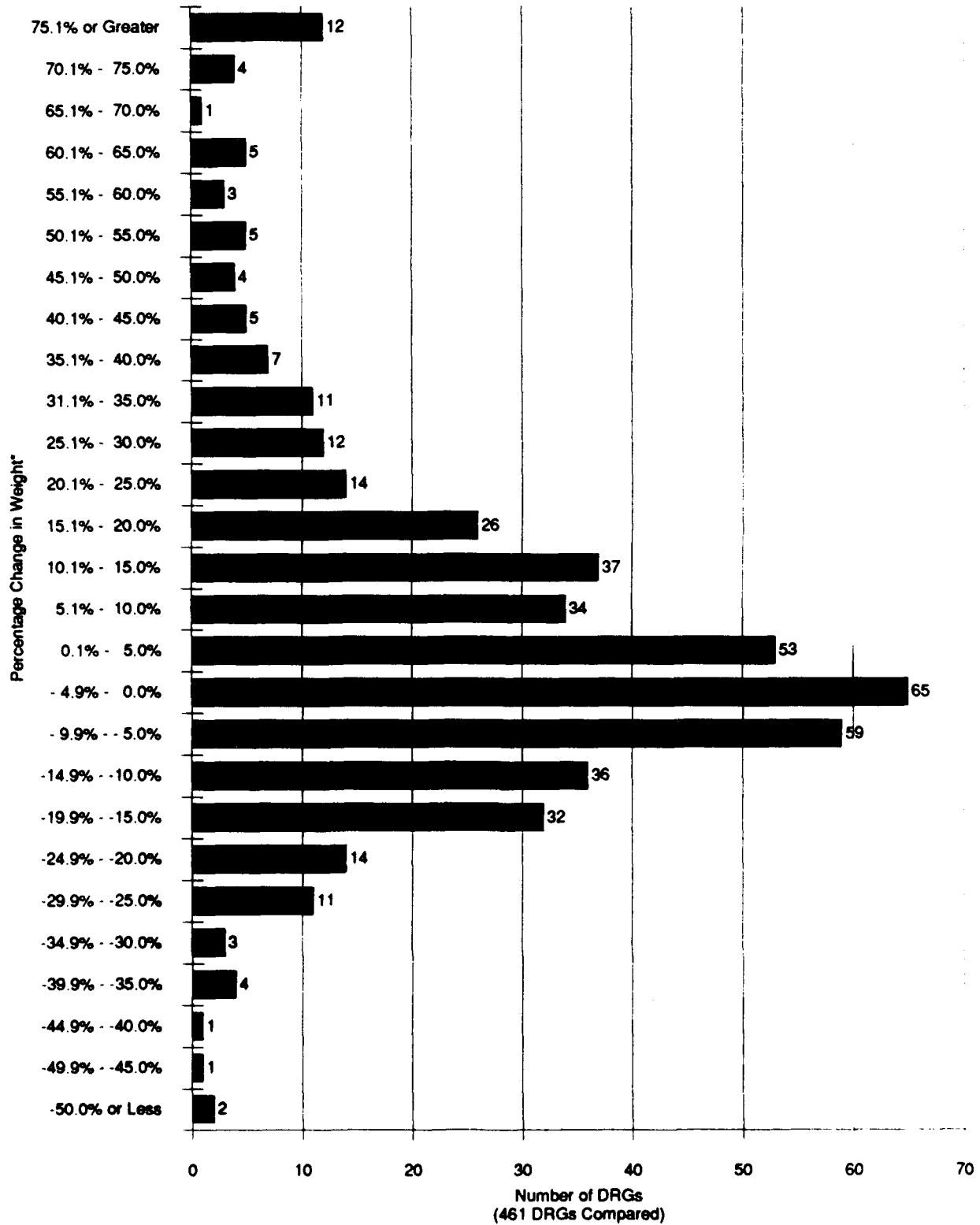
- CHAMPUS uses thresholds based on the GLOS plus or minus the lesser of 3.0 standard deviations or 29 days, rather than the lesser of 1.96 standard deviations or 17 days, as previously used within the direct care methodology.
- it is not apparent that CHAMPUS excludes zero bed day discharges, one day transfer discharges, discharges where LOS is outside the 5th and 95th percentiles within each DRG, or applies some similar exclusionary process; and

These differences, as well as the methodology used to compute relative weighted products (RWPs) and case-mix indices (CMIs), are summarized in exhibit 1-5.

Review of exhibit 1-1 shows that the DRGs compared (new DRGs and DRGs that are not valid within the Version 8 Grouper cannot be compared) display a relatively high degree of variation. Of the 461 DRGs compared, 108 have an increase or decrease in case weight in excess of 20%. Note, however, that many mental health and substance abuse related Version 4 case weights were taken directly from Medicare and respective Version 8 weights were computed using CHAMPUS data. Additionally, the Version 8 weights will reflect differences in medical care practice and CHAMPUS policy instituted between FY88 and FY90.

Exhibit 1-2 presents a comparison of Version 4 direct care GLOS to FY91 (Version 8) CHAMPUS published GLOS. Differences in observed GLOS may be attributed to differences between the direct care and CHAMPUS systems in practice patterns, impact of cost sharing within CHAMPUS, as

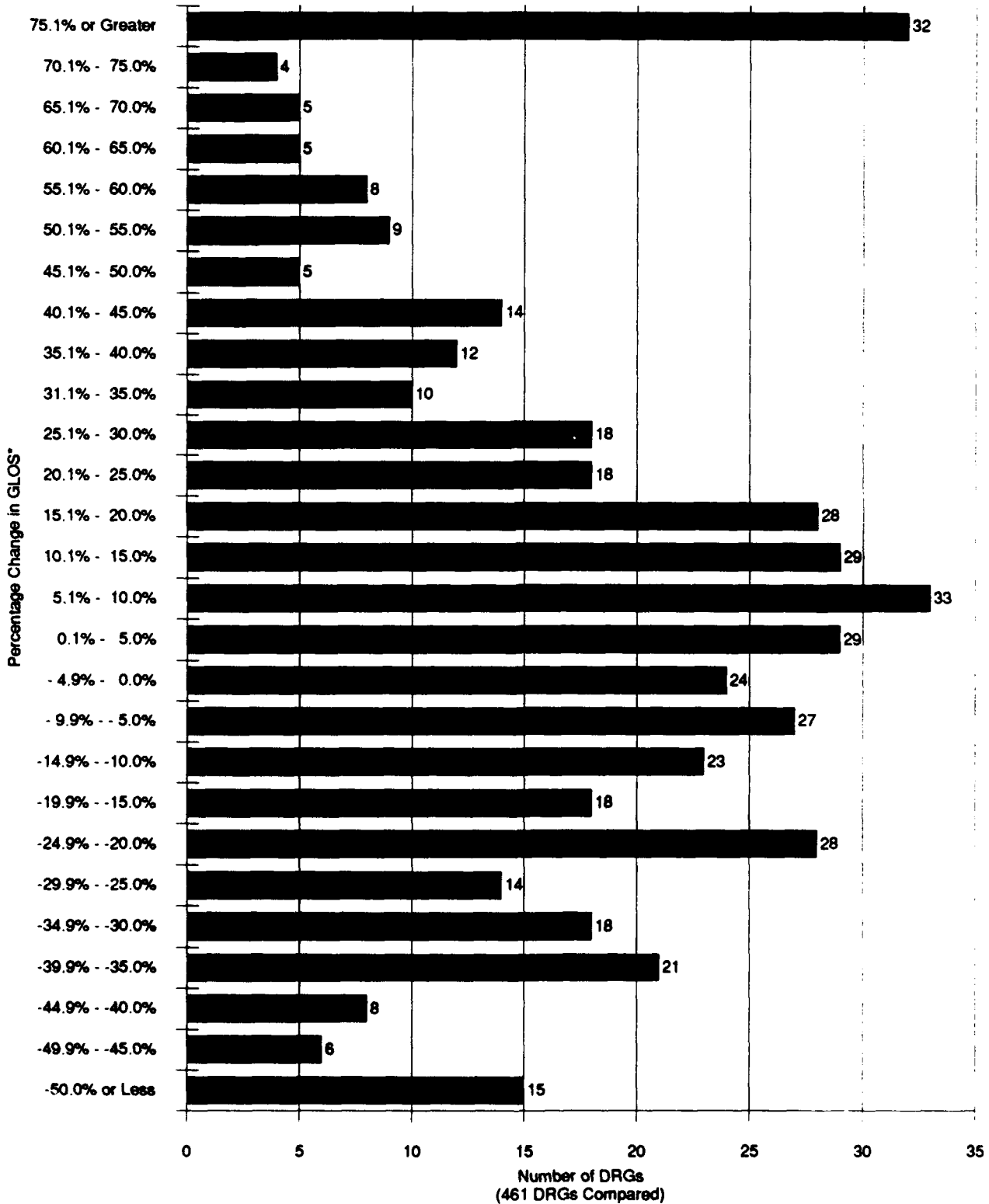
**EXHIBIT 1-1: HISTOGRAM OF PERCENTAGE CHANGE IN VERSION 4 DRG CASE WEIGHT VERSUS VERSION 8 DRG CASE WEIGHT**



\*A percentage change less than zero indicates that the Version 8 case weight is less than the Version 4 case weight.

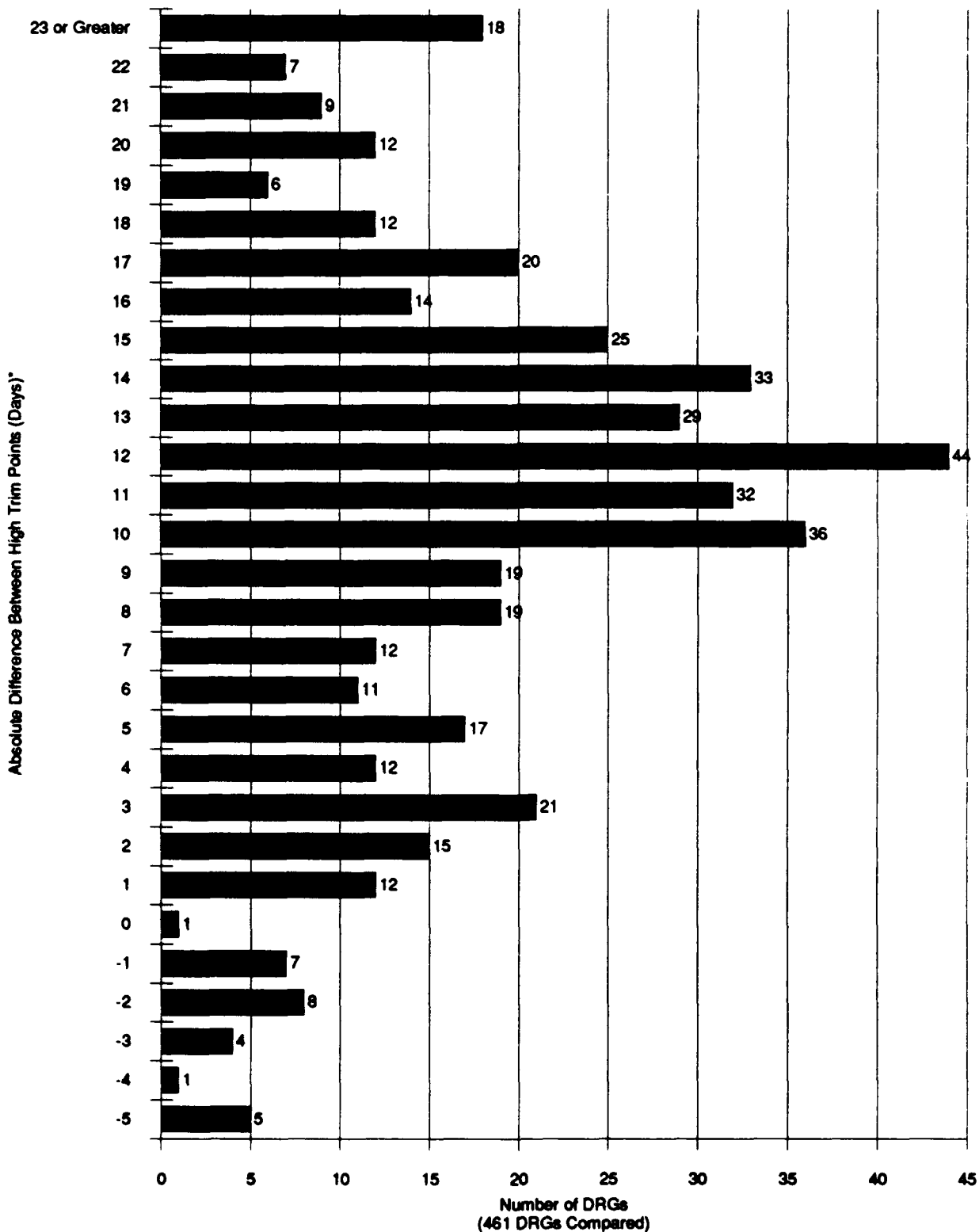


**EXHIBIT 1-2: HISTOGRAM OF PERCENTAGE CHANGE IN VERSION 4 DIRECT CARE GEOMETRIC MEAN LENGTH OF STAY (GLOS) VERSUS VERSION 8 CHAMPUS GLOS**



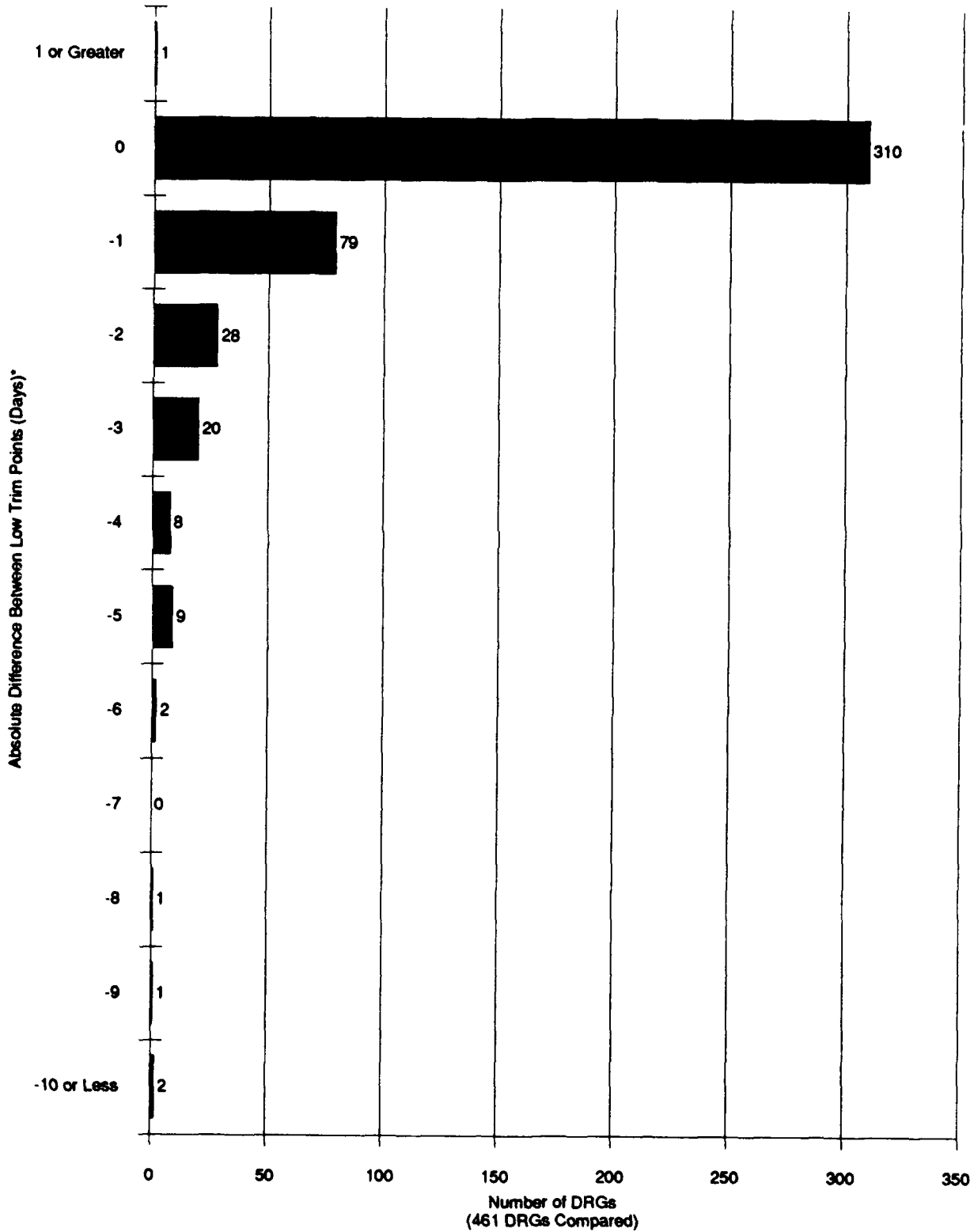
\* A percentage change less than zero indicates that the Version 8 CHAMPUS GLOS is less than the Version 4 direct care GLOS.

**EXHIBIT 1-3: HISTOGRAM OF ABSOLUTE DIFFERENCE BETWEEN  
VERSION 4 DIRECT CARE HIGH TRIM POINT AND  
VERSION 8 CHAMPUS HIGH TRIM POINT**

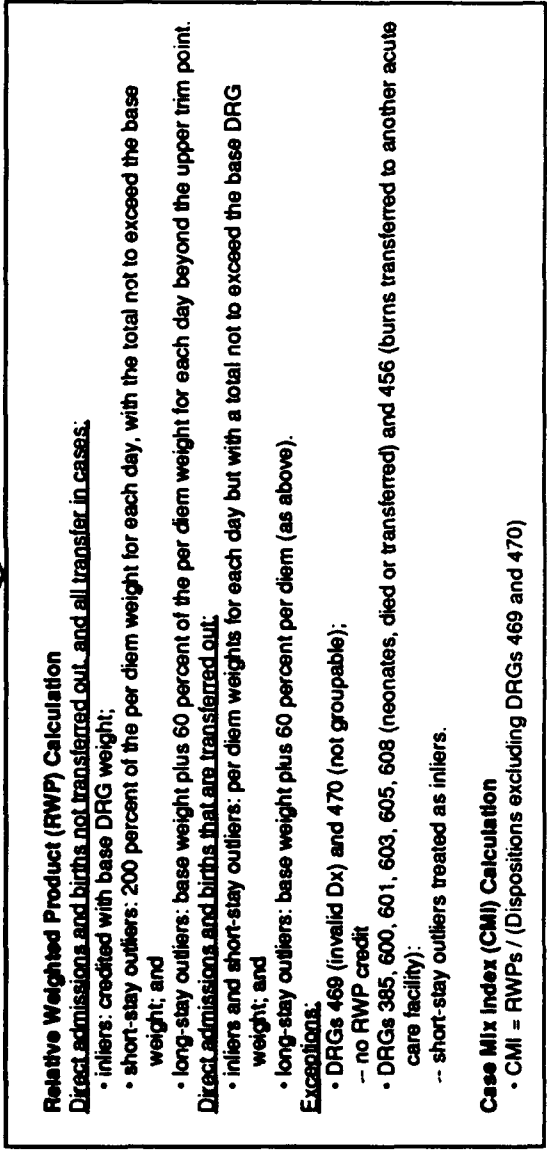
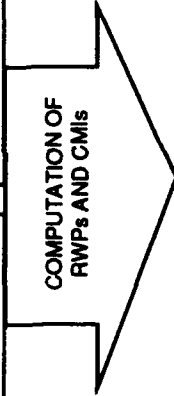
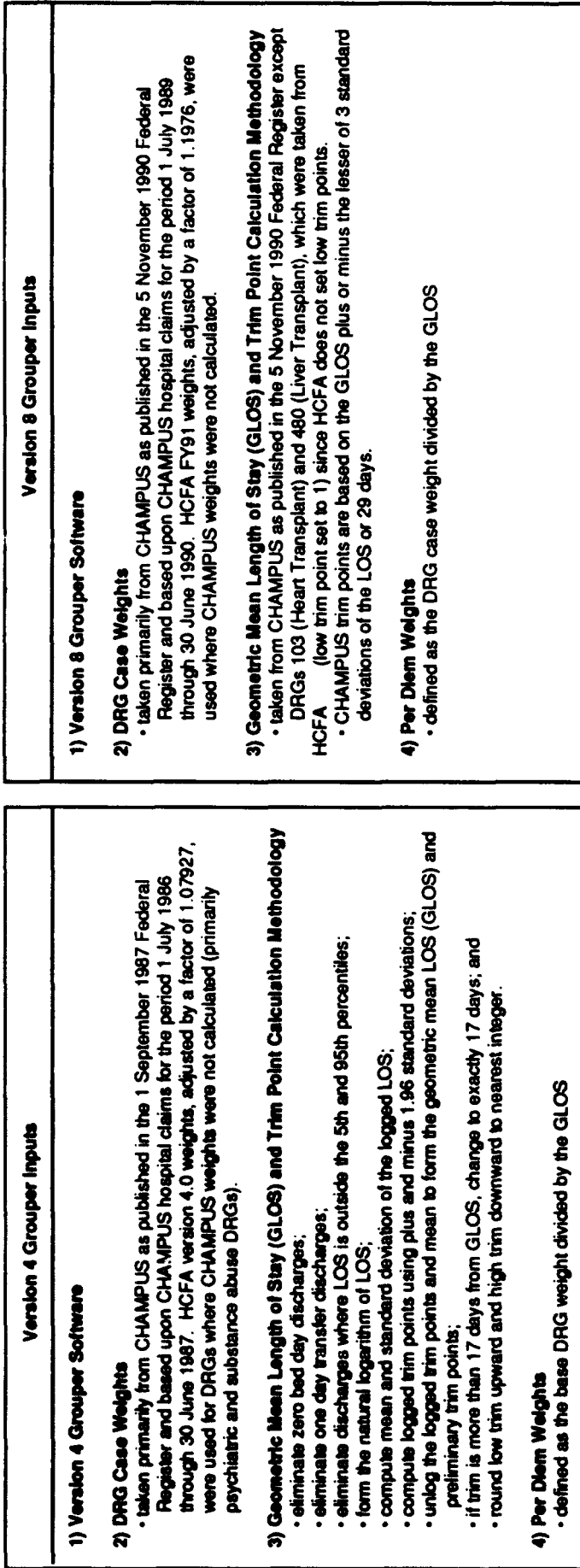


\* An absolute difference less than zero indicates that the Version 8 CHAMPUS high trim point is less than the Version 4 direct care high trim point.

**EXHIBIT 1-4: HISTOGRAM OF ABSOLUTE DIFFERENCE BETWEEN  
VERSION 4 DIRECT CARE LOW TRIM POINT AND  
VERSION 8 CHAMPUS LOW TRIM POINT**



\*An absolute difference less than zero indicates the Version 8 CHAMPUS low trim point is less than the Version 4 direct care low trim point.



well as changes over time that can be observed within both systems. Overall, of the 461 DRGs compared, 110 have more than a 20% decrease in observed GLOS, and 140 have greater than a 20% increase in observed GLOS. Note, an increase in GLOS within a given DRG will decrease outlier per diem credit, and a decrease in GLOS will increase outlier per diem credit, if the weight remains unchanged, since per diem credit is based on the case weight divided by the GLOS. Thus, some differences in computed RWP credit and CMI within particular DRGs will be due to differences in GLOS independent of changes in the case weight.

Exhibits 1-3 and 1-4 summarize the absolute differences in high and low DRG trim points, respectively. Recall the previously mentioned differences in methods used to compute Version 4 and Version 8 high and low trim points. Of the 461 DRGs compared, only 25 have a decrease in their high trim point, and 301 DRGs have an increase in their high trim point of 10 or more days. Thus, fewer discharges will receive long-stay outlier credit using CHAMPUS outlier criteria as this update represents an increase in most DRG high trim points.

For low trim points, shown in exhibit 1-4, one DRG has an increase in its low trim point, 310 have no change, and 127 have a decrease between 1 and 3 days. Using Version 4 outlier criteria, of the 461 DGRs compared, 157 DRGs have a low trim point greater than one. With Version 8 outlier criteria, only 22 DRGs have a low trim point greater than one. Thus, very few stays using Version 8 outlier criteria are short-stay outliers and receive short-stay per diem credit. For some discharges and DRGs, this observed decrease in the low trim point will increase assigned RWP credit.

If a discharge has a length of stay lower than the low trim point then the discharge will obtain per diem credit up to but not greater

than the full case weight (inlier) credit. If lowering the low trim point causes the discharge to become an inlier, the discharge will be assigned full inlier credit. For example, a DRG with a case weight of 10.0 and a GLOS of 20.0 will have a per diem credit of 0.5. A discharge with a LOS of 7 days will receive 7.0 RWPs ( $200\% \times 0.5 \times 7$  days) if the low trim point is 8 or greater. The discharge will receive 10.0 RWPs credit if the low trim point is 7 or lower as the discharge is now an inlier. Thus, if the update causes the low trim point to decrease below 8 days, credit will increase by 3 RWPs. Having summarized the differences in the two groupers, the remainder of this chapter summarizes the impact of using the FY91 (Version 8) DRG Grouper to compute workload and case-mix values as an alternative to the FY87 (Version 4) Grouper and FY88 weights with direct care outlier criteria.

Exhibit 1-6 presents Version 4 and Version 8 dispositions, RWPs, CMIs, and the percentage difference in CMI by clinical area. Note that differences in the Version 4 and Version 8 Grouper software will cause some discharges to be "ungroupable" and receive no credit. These differences cause the observed disparity in Version 4 and Version 8 disposition counts. While the overall change in CMI is a 1.0% decrease, there is some extreme variation by clinical area. Due to substantial increases in case weights within mental health, psychiatric, and substance abuse care DRGs, there is a 46.4% increase in the CMI for care within the psychiatric clinical area. Furthermore, the addition of the neonatal care DRGs results in an increase in assigned credit to pediatric care. Lastly, the observed decline in credit assigned to the Obstetrics/Gynecological Care clinic is attributable to an overall decrease in case weights associated with pregnancy, childbirth, and the puerperium. Exhibit 1-7 provides similar information in slightly

EXHIBIT 1-6: COMPARISON OF FY90 RWPs AND CMIs BY CLINICAL AREA USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA

Clinical Area	Version 4		Version 8		Percentage Difference in CMI
	Dispositions	RWPs	Dispositions	RWPs	
Medical Care	169,554	190,901	169,536	182,434	-4.4%
Surgical Care	220,697	218,170	220,695	213,204	-2.3%
Ob/Gyn Care	172,578	111,372	172,458	98,718	-11.3%
Pediatric Care	131,646	54,638	131,600	58,893	7.8%
Orthopedic Care	83,352	91,678	83,350	88,530	-3.4%
Psychiatric Care	32,856	40,616	32,855	59,445	46.4%
Family Practice	56,095	36,374	56,082	34,594	-4.9%
Unknown	97	80	23	31	65.4%
<b>Total</b>	<b>866,875</b>	<b>743,829</b>	<b>866,599</b>	<b>735,850</b>	<b>-1.0%</b>

**EXHIBIT 1-7: COMPARISON OF FY90 RWPs AND CMIs BY MDC USING VERSION 4 VERSUS  
VERSION 8 WEIGHTS AND OUTLIER CRITERIA**

Major Diagnostic Category (MDC)	Version 4			Version 8			Percentage Difference in CMI
	Dispositions	RWPs	CMIs	Dispositions	RWPs	CMIs	
1 Nervous System	29,515	36,478	1.2359	29,182	37,136	1.2726	3.0%
2 Eye Disorders	16,181	11,373	0.7029	16,162	11,576	0.7163	1.9%
3 Ear/Nose/Mouth/Throat	48,555	26,941	0.5548	69,647	45,237	0.6495	17.1%
4 Respiratory System	41,003	50,485	1.2313	40,710	48,443	1.1900	-3.4%
5 Circulatory System	49,854	66,362	1.3311	50,072	66,735	1.3328	0.1%
6 Digestive System	107,410	99,128	0.9229	85,643	67,755	0.7911	-14.3%
7 Hepatobiliary System	14,377	21,025	1.4624	14,299	19,078	1.3342	-8.8%
8 Musculoskeletal System	85,876	94,026	1.0949	85,792	89,362	1.0416	-4.9%
9 Skin/Subcutaneous Tissue	41,959	36,492	0.8697	41,928	34,196	0.8156	-6.2%
10 Endocrine/Nutritional	13,859	13,075	0.9434	13,757	11,414	0.8297	-12.1%
11 Kidney/Urinary Tract	21,666	22,273	1.0280	21,653	20,118	0.9291	-9.6%
12 Male Reproductive System	19,156	14,189	0.7407	18,572	12,656	0.6815	-8.0%
13 Female Reproductive System	42,570	33,910	0.7966	42,543	32,012	0.7525	-5.5%
14 Pregnancy/Childbirth	135,382	78,880	0.5827	135,227	66,627	0.4927	-15.4%
15 Neonatal/Perinatal Period	94,420	27,119	0.2872	97,063	33,528	0.3454	20.3%
16 Blood/Immunity	8,382	10,952	1.3066	6,811	7,280	1.0688	-18.2%
17 Myeloproliferative/Neoplasms	8,481	13,900	1.6390	8,449	15,092	1.7863	9.0%
18 Infectious/Parasitic	16,434	14,032	0.8539	15,828	13,559	0.8567	0.3%
19 Mental Disease/Disorder	20,734	25,646	1.2369	20,681	42,434	2.0518	65.9%
20 Substance Use/Organic Mental	16,008	17,047	1.0649	16,008	24,112	1.5062	41.4%
21 Injury, Poison, Toxic Effects	15,178	16,039	1.0568	14,141	12,038	0.8513	-19.4%
22 Burns	1,238	2,605	2.1038	1,236	2,947	2.3843	13.3%
23 Other Factors/Contacts	18,637	11,853	0.6360	18,302	12,326	0.6735	5.9%
24 Multiple Significant Trauma	0	0	-----	754	4,015	5.3244	-----
25 HIV Infections	0	0	-----	2,139	6,173	2.8860	-----
<b>Total</b>	<b>866,875</b>	<b>743,829</b>	<b>0.8581</b>	<b>866,599</b>	<b>735,850</b>	<b>0.8491</b>	<b>-1.0%</b>



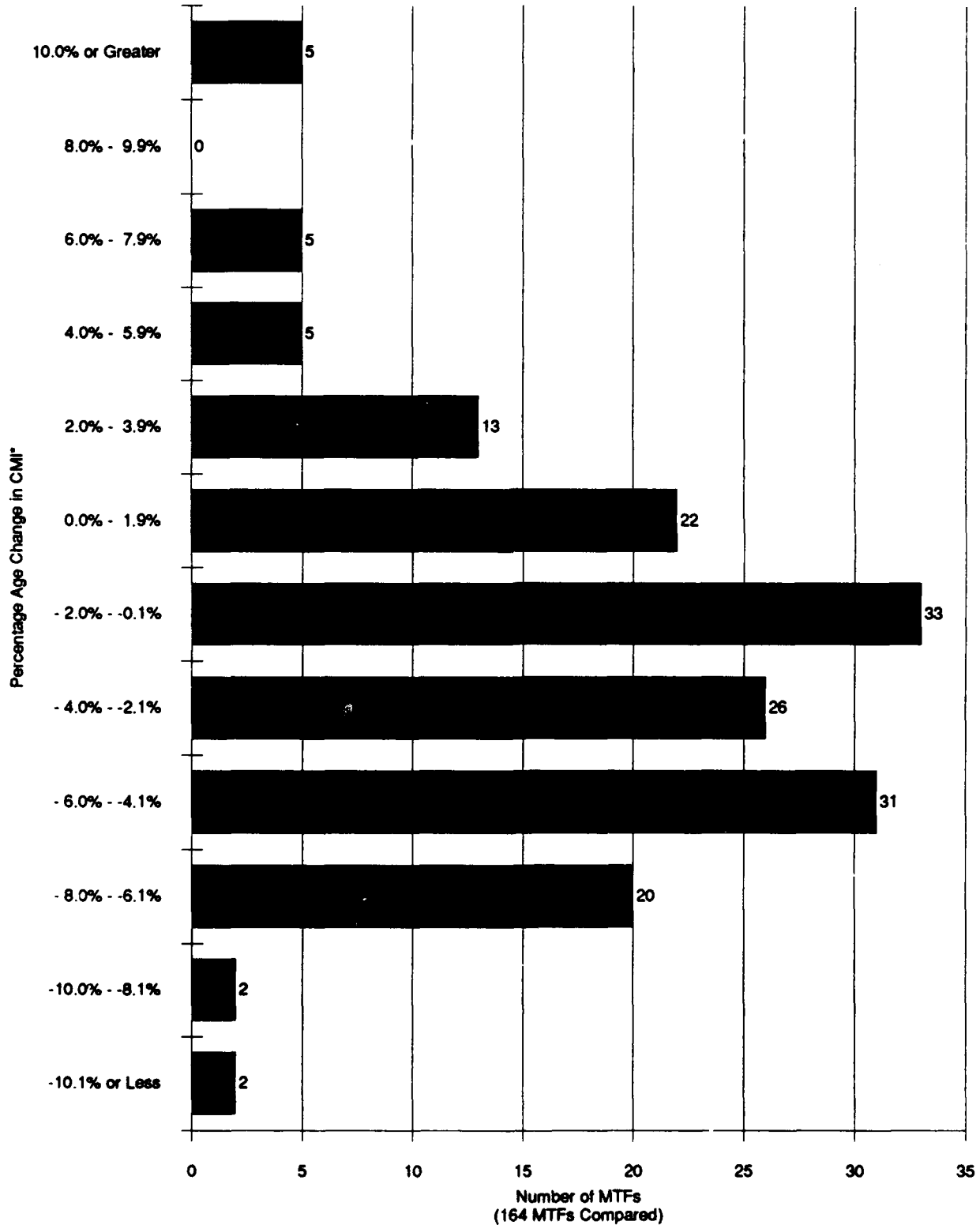
greater detail, as RWPs and CMIs are presented by major diagnostic category (MDC).

Since workload at the facility level is various combinations of care within many clinical areas, one anticipates some variation around the average of a 1.0% decline in CMI. Exhibit 1-8 presents a histogram of the number of facilities with a given percentage change in CMI. Of the 164 facilities compared, all but 7 have less than a 10% increase or decrease in observed CMI. The facilities with greater than a 10% change in CMI typically have a disproportionate amount of care within mental health and substance abuse related DRGs or the Ob/Gyn clinical area where atypical changes in weights were observed. Exhibits 1-9 through 1-11 provide histograms by Service branch for Army, Navy, and Air Force facilities, respectively.

For Army facilities, shown in exhibit 1-9, the range of change in CMI is smaller than for Navy and Air Force facilities. No Army facility has greater than an 8% change in CMI and 41 of the 49 facilities compared have a decrease in CMI. For Navy facilities the range is relatively wider with 5 facilities having greater than a 10% change in CMI. Also, 22 of the 35 Navy facilities have an increase in CMI. The Air Force has 2 facilities with greater than a 10% change and 60 of the 80 facilities compared have a decrease in CMI.

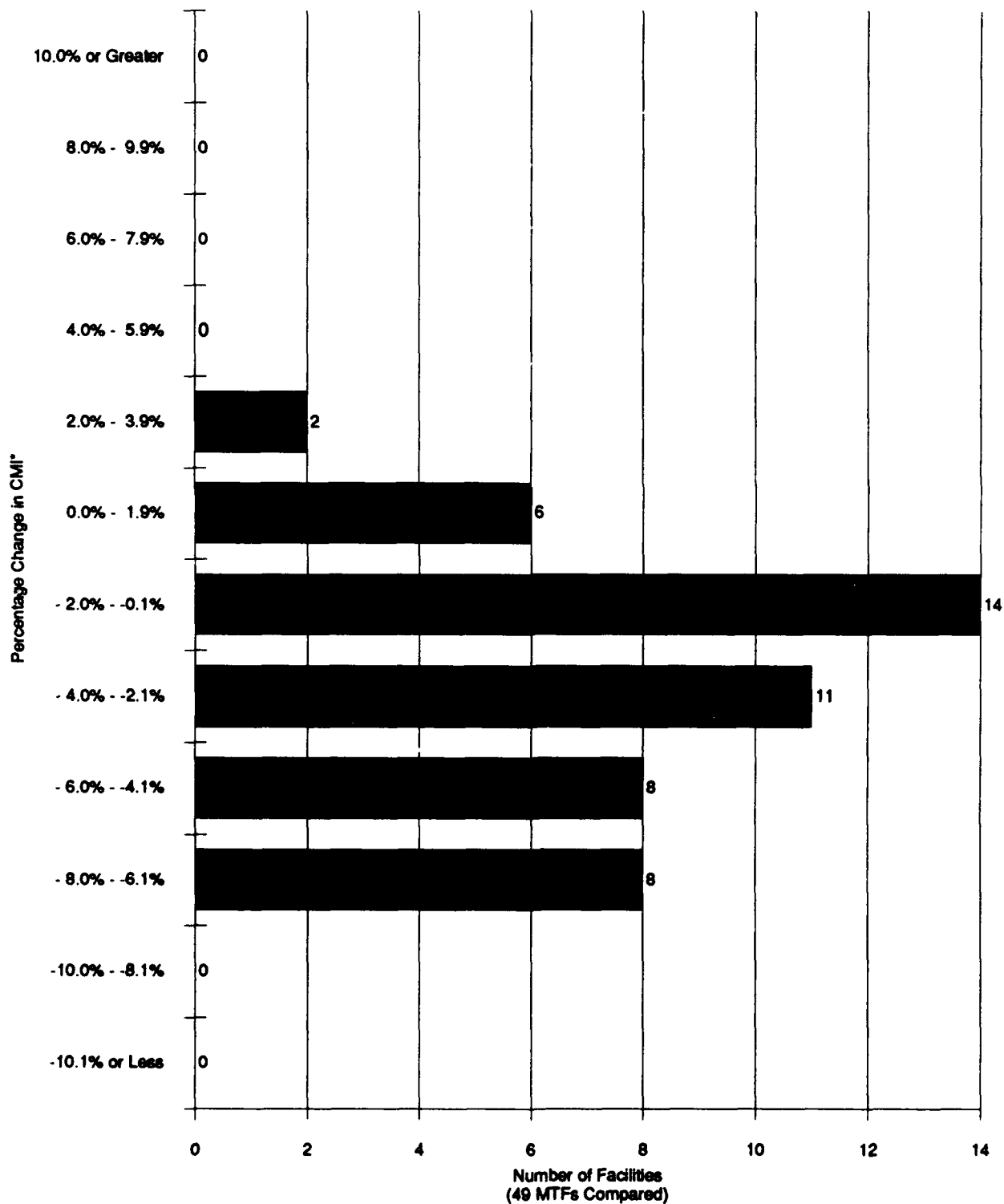
Exhibit 1-12 presents information that supports the above observations. The exhibit summarizes the impact of updating to the Version 8 DRG Grouper for each model peer group. Overall, medical centers, CONUS community hospitals, and overseas hospitals all have roughly the same change in CMI. In general, Army and USAF facilities have a 1.0 - 3.2% decrease in credit and CMI while Navy facilities receive a 2.9% to 4.1% increase in credit. The differences by Service

**EXHIBIT 1-8: HISTOGRAM OF PERCENTAGE CHANGE IN FACILITY FY90  
CMI<sup>1</sup> USING VERSION 4 VERSUS VERSION 8 WEIGHTS  
AND OUTLIER CRITERIA**



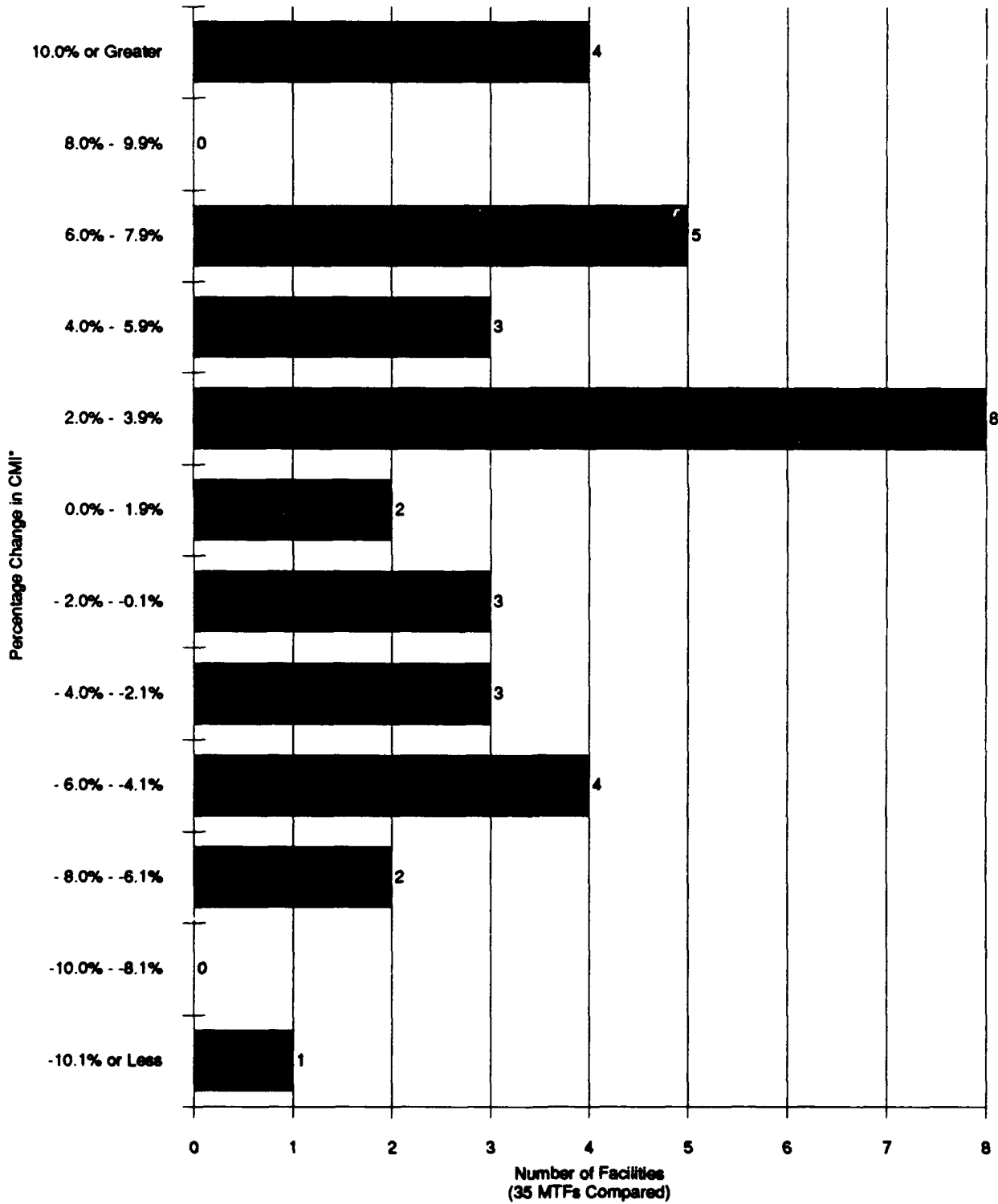
<sup>1</sup> A percentage change less than zero indicates that the Version 8 CMI is less than the Version 4 CMI.

**EXHIBIT 1-9: HISTOGRAM OF PERCENTAGE CHANGE IN ARMY FACILITY  
CMI'S USING VERSION 4 VERSUS VERSION 8 WEIGHTS  
AND OUTLIER CRITERIA**



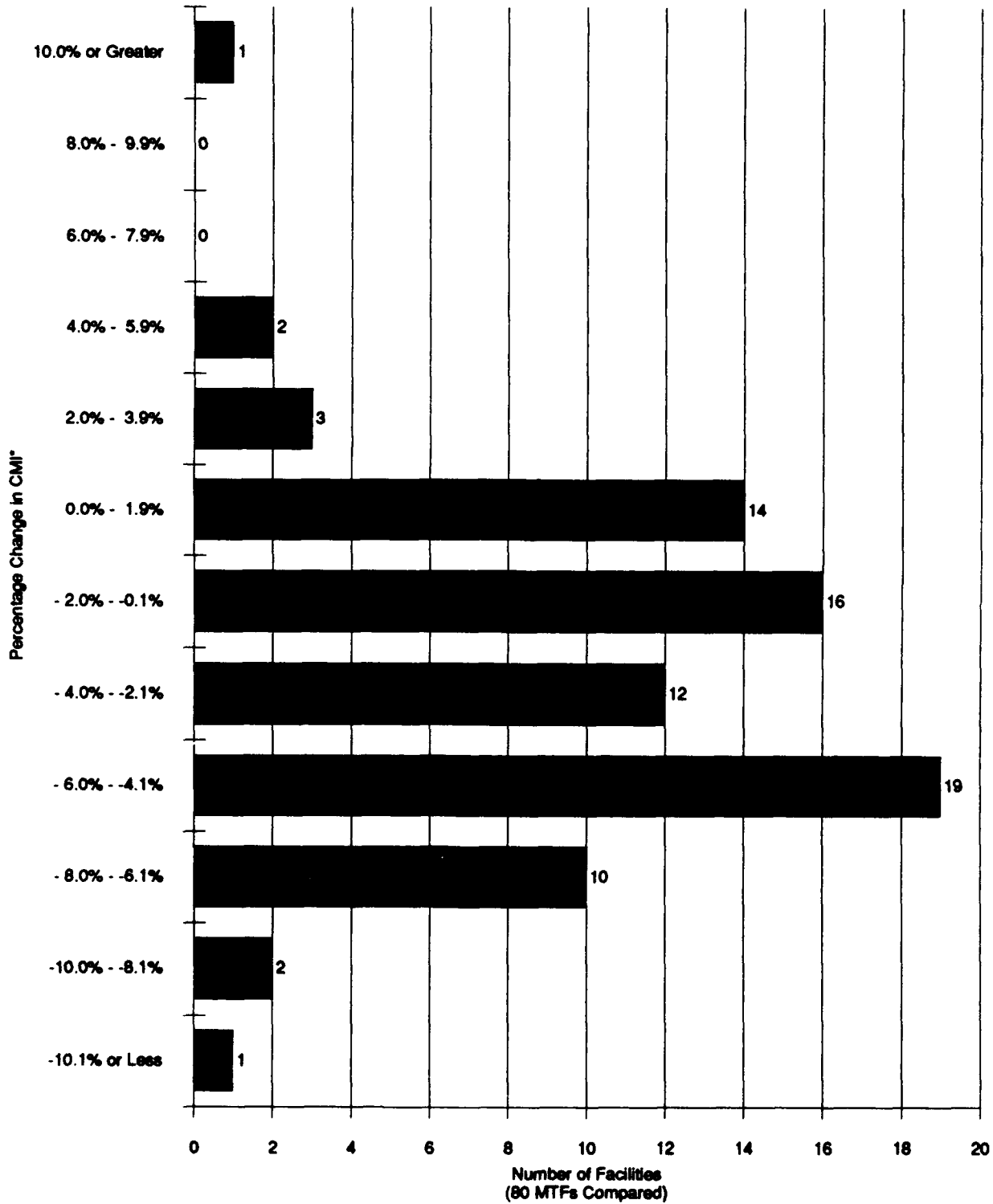
\* A percentage change less than zero indicates that the Version 8 CMI is less than the Version 4 CMI.

**EXHIBIT 1-10: HISTOGRAM OF PERCENTAGE CHANGE IN NAVY FACILITY CMIs USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA**



\* A percentage change less than zero indicates that the Version 8 CMI is less than the Version 4 CMI.

**EXHIBIT 1-11: HISTOGRAM OF PERCENTAGE CHANGE IN USAF FACILITY CMIs USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA**



\* A percentage change less than zero indicates that the Version 8 CMI is less than the Version 4 CMI.

EXHIBIT 1-12: COMPARISON OF FY90 RWPs AND CMIs BY MODEL PEER GROUP USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA

Model Peer Group	Version 4			Version 8			Percentage Difference in CMI
	Dispositions	RWPs	CMIs	Dispositions	RWPs	CMIs	
<b>Army</b>							
Medical Centers	135,553	158,043	1.1659	135,532	153,000	1.1289	-3.2%
CONUS Community Hosp.	194,957	140,061	0.7184	194,875	136,729	0.7016	-2.3%
Overseas Hospitals	67,151	51,837	0.7719	67,142	50,502	0.7522	-2.6%
<b>All Army Facilities</b>	<b>397,661</b>	<b>349,941</b>	<b>0.8800</b>	<b>397,549</b>	<b>340,231</b>	<b>0.8558</b>	<b>-2.7%</b>
<b>Navy</b>							
Medical Centers	84,620	79,305	0.9372	84,608	82,203	0.9716	3.7%
CONUS Community Hosp.	85,498	63,011	0.7370	85,464	65,551	0.7670	4.1%
Overseas Hospitals	27,469	18,881	0.6874	27,463	19,426	0.7074	2.9%
<b>All Navy Facilities</b>	<b>197,587</b>	<b>161,197</b>	<b>0.8158</b>	<b>197,535</b>	<b>167,180</b>	<b>0.8463</b>	<b>3.7%</b>
<b>Air Force</b>							
Medical Centers	96,896	114,715	1.1839	96,887	113,533	1.1718	-1.0%
CONUS Community Hosp.	146,981	98,351	0.6691	146,879	95,587	0.6508	-2.7%
Overseas Hospitals	27,750	19,625	0.7072	27,749	19,319	0.6962	-1.6%
<b>All USAF Facilities</b>	<b>271,627</b>	<b>232,691</b>	<b>0.8567</b>	<b>271,515</b>	<b>228,439</b>	<b>0.8413</b>	<b>-1.8%</b>
<b>DoD</b>							
Medical Centers	317,069	352,063	1.1104	317,027	348,735	1.1000	-0.9%
CONUS Community Hosp.	427,436	301,423	0.7052	427,218	297,867	0.6972	-1.1%
Overseas Hospitals	122,370	90,344	0.7383	122,354	89,248	0.7294	-1.2%
<b>All Facilities</b>	<b>866,875</b>	<b>743,830*</b>	<b>0.8581</b>	<b>866,599</b>	<b>735,850</b>	<b>0.8491</b>	<b>-1.0%</b>

\* Version 4 total RWPs do not match other exhibits due to rounding.

are largely due to the fact that the Navy has proportionally more mental health and substance abuse care provided in its MTFs and case weights for these DRGs increased more relative to other weights. Additionally, credit to Navy facilities decreased less due to changes in the outlier criteria, as Navy facilities typically receive less long-stay outlier credit for DRGs other than mental health and substance abuse.

In summary, implementation of the Version 8 DRG Grouper case weights and outlier criteria results in a 1.0% decrease in overall workload and the DoD computed CMI. The impact, however, varies by clinical area with a substantial increase in credit observed within the psychiatric care clinic and a decrease in Ob/Gyn credit. MTFs with a disproportionate amount of care within these clinical areas are impacted differently than the observed average change. Thus, the overall decrease in credit of 1.0% is not due to minor changes in credit within each DRG, but somewhat substantial changes that have compensating differences and therefore little change in overall credit. Also, for the most part, the result is little change in credit at most facilities.

#### 1.4 FY91 Inpatient Work Unit (IWU) Adjustment Factor

Since a decrease in the overall CMI is observed, updating to the Version 8 DRG Grouper and CHAMPUS outlier criteria will generally decrease computed RWPs and case-mix complexity values. The resulting FY90 DoD-wide CMI using the Version 4 DRG Grouper is 0.8581 and using the Version 8 DRG Grouper is 0.8491. The ratio of the Version 8 to Version 4 CMI is 0.9895, which indicates that on average each MTF has a CMI using the Version 8 Grouper that is approximately 1.0% lower. This difference is attributable to the fact that the grouper, case weights, and outlier criteria were updated between the two grouper versions. To

preserve comparability of IWUs, the measure of workload used within the MHSS resource allocation methodology, it is necessary to adjust values computed using the Version 8 DRG Grouper to allow comparison at a global level to workload computed using the Version 4 DRG Grouper.

A CMI correction factor has been incorporated into the computation of IWUs to facilitate comparison of IWUs over time<sup>1</sup>. Given this correction factor, the updated IWU for FY91 is:

$$\text{IWUs} = \frac{\text{CMI}}{(.8109 \times \text{CMI Correction Factor})} \times \text{MEPRS Dispositions}$$

where the

$$\text{Version 4 to Version 8 CMI Correction Factor} = \frac{0.8491}{0.8581} = 0.9895$$

and therefore

$$\text{FY91 IWUs} = \frac{\text{CMI}}{0.8024} \times \text{MEPRS Dispositions.}$$

Applying this definition of the IWU to FY91 data will essentially increase the computed IWUs at each facility by 1.0% and therefore compensate for the global decrease in CMI due to the grouper update.

Note that while the global adjustment factor preserves comparability of IWUs over time at the aggregate DOD level, the global adjustment does not compensate for changes at the facility level. For example, while on average the DoD CMI decreased by 1.0% when comparing results from the Version 4 and Version 8 DRG Groupers, the average Navy CONUS Community hospital CMI increased by 4.1%. Therefore, an analysis at the facility or peer group level, even after compensating for the update at the global level, may demonstrate a notable change in observed

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<sup>1</sup> DMIS Direct Care Workload Measurement and Monitoring Support, VRI-DMIS-2.6 WP92-3 (in progress).



IWUs strictly due to the grouper update. The issues identified and data presented in this document will assist analysts in identifying changes in workload strictly due to updates in workload measures. Caution must be exercised, however, when workload measures obtained from different DRG groupers are compared over time or employed as inputs to previously established models.

Having summarized the development and impact of implementing the Version 8 DRG Grouper, chapter 2.0 presents details concerning the development of the Version 8 Grouper case weights, trim points, and GLOS. Chapter 3.0 provides a more detailed review of the impact of this update by clinical area, DRG, and for various demographic criteria including, age, sex, and beneficiary status. Lastly, chapter 4.0 presents a review at the facility level.



## 2.0 DEVELOPMENT OF FY91 VERSION 8 DRG WEIGHTS AND OUTLIER CRITERIA

This chapter presents the development of Version 8 case weights, trim points, and geometric means of length of stay (GLOS). Note that the weights presented here are precisely those presented in *Development of FY91 (Version 8) DoD Diagnosis Related Groups (DRG) Weights and Trim Points*, (VRI-DMIS.2.60 WN91-4, Vector Research Incorporated, 9 January 1992). However, the outlier criteria used in this paper are those published by CHAMPUS for the FY91 (Version 8) Diagnosis Related Group (DRG) Grouper and differ from the previous document, which used criteria based on FY90 direct care Biometrics data.

As with the original DoD DRG weight development, this effort adopted CHAMPUS weights, with some modifications. Modifications were made for the following sets of DRGs:

- DRGs for which CHAMPUS directly adopted Medicare weights; and
- DRGs for which CHAMPUS does not reimburse according to DRGs.

CHAMPUS directly adopted Medicare weights for 14 DRGs that had sample sizes that were too small in CHAMPUS for unique weight computation.<sup>1</sup>

The CHAMPUS FY91 DRG Grouper was the same as that employed by the FY91 Medicare PPS system, with two key differences:

- the CHAMPUS system replaced the Medicare DRG 435 (Alcohol/Drug Dependence, Detox, and/or Other Symptomatic Treatment), with two age-based DRGs (900 and 901); and
- the CHAMPUS system replaced the Medicare neonatal DRGs 385 through 390 with 34 neonatal DRGs, with the expanded number of DRGs resulting from the addition of birthweight as part of the DRG definition for these DRGs.

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<sup>1</sup> Medicare weights were published in the *Federal Register*, Vol. 55, No.171, Tuesday, September 4, 1990, pp. 36111-36124.

The DRGs for which CHAMPUS directly adopted Medicare weights are presented in the following table.

<u>DRG</u>	<u>Description</u>
38	Primary Iris Procedures
317	Admit for Renal Dialysis
328	Urethral Stricture Age > 17 with CC
330	Urethral Stricture Age 0-17
342	Circumcision Age > 17
351	Sterilization, Male
412	History of Malignancy w/o Endoscopy
436	Alcohol/Drug Dependence with Rehabilitation Therapy
456	Burns, Transferred to Another Acute Care Facility
465	Aftercare with History of Malignancy as Secondary Diagnosis
472	Extensive Burns with O.R. Procedure
481	Bone Marrow Transplant
484	Craniotomy for Multiple Significant Trauma
488	HIV with Extensive O.R. Procedure

In adopting the Medicare weights for these DRGs, CHAMPUS did not account for the fact that, on average, CHAMPUS weights were about 16 percent higher than Medicare weights. In adopting the CHAMPUS weights for use in the DoD DRG-based allocation system, these weights were adjusted in order to maintain the relative resource intensity differences between these DRGs and those for which CHAMPUS computed CHAMPUS-unique weights.

The two DRGs that CHAMPUS exempted from DRG-based payments in FY91 are presented in the following table.

<u>DRG</u>	<u>Description</u>
103	Heart Transplant
480	Liver Transplant

The Health Care Financing Administration (HCFA) published FY91 Medicare weights for these two DRGs, which served as the source for implementation in computing FY91 DoD workload. However, as noted previously, the overall average FY91 CHAMPUS DRG weight was about 16 percent greater than the overall average FY91 Medicare DRG weight. Therefore, the

Medicare weights for these DRGs were adjusted in the same manner as those directly adopted from Medicare by CHAMPUS.

The precise manner of the DRG weight adjustment was as follows. The average DRG weights for both CHAMPUS and Medicare were computed for those DRGs that CHAMPUS and Medicare had in common and for which they computed their own weights. Therefore, the DRGs in the tables above were left out of this computation, as were CHAMPUS DRGs 600 through 636, 900 and 901, and Medicare DRGs 385 through 390, and 435. The average HCFA weight, after these exclusions, was 1.1976. The average CHAMPUS weight was 1.3901. Therefore, the average CHAMPUS weight was 16.07% higher than the average HCFA weight. Consequently, the Medicare weights for the DRGs in the tables above were multiplied by 1.1607 before they were adopted as DoD DRG weights. Weights for all other DRGs were adopted as published by CHAMPUS.

Values for the high and low trim points and GLOS for all DRGs were adopted as published by CHAMPUS. Note that for DRGs 103 - Heart Transplant, and 480 - Liver Transplant, CHAMPUS did not publish GLOS and trim points as these DRGs are exempt from reimbursement. For these two DRGs, the trim points and GLOS published by Medicare for the PPS were adopted without any adjustment. The FY91 Version 8 DRG Grouper weights, trim points, and GLOS that will be used to compute FY91 inpatient workload are presented in exhibit 2-1. Again, recall these weights are the same as those presented in **Development of FY91 (Version 8) DoD Diagnosis Related Groups (DRG) Weights and Trim Points**, (VRI-DMIS.2.60 WN91-4, Vector Research Incorporated, 9 January 1992) and the only changes are those published by CHAMPUS for the FY91 Version 8 DRG Grouper rather than trim points and GLOS computed using FY90 direct care Biometrics data<sup>1</sup>.

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<sup>1</sup>Note that the high trim point is equivalent to the CHAMPUS high threshold for group "A" hospitals. This is the threshold that applies to all hospitals other than children's hospitals.

**EXHIBIT 2-1: FY91 (VERSION 8) DRG GROUPER CASE WEIGHTS WITH  
CHAMPUS OUTLIER CRITERIA**

DRG	Description	Case	Low	High	GLOS
		Weight	Trim Point	Trim Point	
1	CRANIOTOMY AGE >17 EXCEPT FOR TRAUMA	3.8296	1	39	10.1
2	CRANIOTOMY FOR TRAUMA AGE >17	4.7208	1	38	9.4
3	CRANIOTOMY AGE 0-17	2.8052	1	34	5.9
4	SPINAL PROCEDURES	2.1169	1	35	6.4
5	EXTRACRANIAL VASCULAR PROCEDURES	1.7360	1	26	4.7
6	CARPAL TUNNEL RELEASE	0.6616	1	14	2.0
7	PERIPH & CRANIAL NERVE & OTHER NERV SYST PROC W CC	2.3772	1	35	6.7
8	PERIPH & CRANIAL NERVE & OTHER NERV SYST PROC W/O CC	0.8947	1	24	2.4
9	SPINAL DISORDERS & INJURIES	3.2092	1	40	11.9
10	NERVOUS SYSTEM NEOPLASMS W CC	1.5659	1	35	6.4
11	NERVOUS SYSTEM NEOPLASMS W/O CC	0.9778	1	32	3.6
12	DEGENERATIVE NERVOUS SYSTEM DISORDERS	1.9710	1	36	7.2
13	MULTIPLE SCLEROSIS & CEREBELLAR ATAXIA	0.9247	1	34	5.3
14	SPECIFIC CEREBROVASCULAR DISORDERS EXCEPT TIA	1.5377	1	34	5.9
15	TRANSIENT ISCHEMIC ATTACKS AND PRECEREBRAL OCCLUSIONS	0.7414	1	21	3.1
16	NONSPECIFIC CEREBROVASCULAR DISORDERS W CC	1.6854	1	35	6.3
17	NONSPECIFIC CEREBROVASCULAR DISORDERS W/O CC	1.0644	1	32	3.9
18	CRANIAL & PERIPHERAL NERVE DISORDERS W CC	0.9274	1	33	4.6
19	CRANIAL & PERIPHERAL NERVE DISORDERS W/O CC	0.6960	1	32	3.3
20	NERVOUS SYSTEM INFECTION EXCEPT VIRAL MENINGITIS	1.8427	1	36	7.4
21	VIRAL MENINGITIS	0.6273	1	18	3.5
22	HYERTENSIVE ENCEPHALOPATHY	0.8183	1	29	3.3
23	NONTRAUMATIC STUPOR & COMA	0.6934	1	16	2.2
24	SEIZURE & HEADACHE AGE > 17 W CC	0.8443	1	31	3.6
25	SEIZURE & HEADACHE AGE > 17 W/O CC	0.5386	1	22	2.8
26	SEIZURE & HEADACHE AGE 0-17	0.5357	1	19	2.4
27	TRAUMATIC STUPOR & COMA, COMA>1 HR	2.2539	1	33	4.3
28	TRAUMATIC STUPOR & COMA, COMA <1 HR AGE >17 W CC	1.2917	1	33	4.6
29	TRAUMATIC STUPOR & COMA, COMA <1 HR AGE >17 W/O CC	1.2370	1	32	3.5
30	TRAUMATIC STUPOR & COMA <1 HR AGE 0-17	0.5955	1	23	2.0
31	CONCUSSION AGE >17 W CC	0.6317	1	21	2.2
32	CONCUSSION AGE >17 W/O CC	0.4484	1	13	1.8
33	CONCUSSION AGE 0-17	0.2882	1	4	1.3
34	OTHER DISORDERS OF NERVOUS SYSTEM W CC	2.1045	1	34	5.3
35	OTHER DISORDERS OF NERVOUS SYSTEM W/O CC	1.1231	1	32	3.7
36	RETINAL PROCEDURES	0.7892	1	10	2.0
37	ORBITAL PROCEDURES	0.8711	1	21	2.2
38	PRIMARY IRIS PROCEDURES	0.3614	1	17	2.2
39	LENS PROCEDURES WITH OR WITHOUT VITRECTOMY	0.7245	1	5	1.3
40	EXTRAOCULAR PROCEDURES EXCEPT ORBIT AGE >17	0.6147	1	12	1.6
41	EXTRAOCULAR PROCEDURES EXCEPT ORBIT AGE 0-17	0.4929	1	5	1.2
42	INTRAOCULAR PROCEDURES EXCEPT RETINA, IRIS & LENS	0.8275	1	14	2.1
43	HYPHEMA	0.2827	1	23	2.9
44	ACUTE MAJOR EYE INFECTIONS	0.4690	1	16	3.4
45	NEUROLOGICAL EYE DISORDERS	0.6138	1	27	2.8
46	OTHER DISORDERS OF THE EYE AGE >17 W CC	0.8169	1	32	3.1
47	OTHER DISORDERS OF THE EYE AGE >17 W/O CC	0.5074	1	24	2.2
48	OTHER DISORDERS OF THE EYE AGE 0-17	0.4422	1	16	2.2
49	MAJOR HEAD & NECK PROCEDURES	2.2905	1	35	6.2
50	SIALOADENECTOMY	0.7318	1	6	1.7
51	SALIVARY GLAND PROCEDURES EXCEPT SIALOADENECTOMY	0.5854	1	5	1.5
52	CLEFT LIP & PALATE REPAIR	0.7219	1	12	2.1
53	SINUS & MASTOID PROCEDURES AGE >17	0.6953	1	9	1.6
54	SINUS & MASTOID PROCEDURES AGE 0-17	0.7170	1	9	1.5
55	MISCELLANEOUS EAR, NOSE & THROAT PROCEDURES	0.5870	1	6	1.3
56	RHINOPLASTY	0.5429	1	4	1.3
57	T & A PROC, EXCEPT TONSILLECTOMY &/OR ADENOIDECTOMY ONLY, AGE>1	0.6521	1	12	2.1
58	T & A PROC, EXCEPT TONSILLECTOMY &/OR ADENOIDECTOMY ONLY,AGE 0-	0.4267	1	3	1.1
59	TONSILLECTOMY &/OR ADENOIDECTOMY ONLY, AGE >17	0.3712	1	3	1.2
60	TONSILLECTOMY &/OR ADENOIDECTOMY ONLY, AGE 0-17	0.3380	1	2	1.1

-Continued-

EXHIBIT 2-1: FY91 (VERSION 8) DRG GROUPER CASE WEIGHTS WITH  
CHAMPUS OUTLIER CRITERIA  
(Continued)

DRG	Description	Case Weight	Low Trim Point	High Trim Point	GLOS
61	MYRINGOTOMY WITH TUBE INSERTION AGE >17	0.7106	1	14	1.7
62	MYRINGOTOMY WITH TUBE INSERTION AGE 0-17	0.6121	1	24	1.9
63	OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES	1.0597	1	17	2.4
64	EAR, NOSE, MOUTH & THROAT MALIGNANCY	1.0437	1	32	3.3
65	DISEQUILIBRIUM	0.4794	1	14	2.6
66	EPISTAXIS	0.4247	1	18	2.5
67	EPIGLOTTITIS	1.1018	1	25	3.5
68	OTITIS MEDIA & URI AGE > 17 W CC	0.6452	1	19	3.4
69	OTITIS MEDIA & URI >17 W/O CC	0.4838	1	17	2.8
70	OTITIS MEDIA & URI AGE 0-17	0.4017	1	13	2.6
71	LARYNGOTRACHEITIS	0.3395	1	10	1.9
72	NASAL TRAUMA & DEFORMITY	0.4875	1	7	1.7
73	OTHER EAR, NOSE, MOUTH & THROAT DIAGNOSES AGE >17	0.5217	1	20	2.4
74	OTHER EAR, NOSE, MOUTH & THROAT DIAGNOSES AGE 0-17	0.5155	1	23	2.2
75	MAJOR CHEST PROCEDURES	3.3687	1	38	9.3
76	OTHER RESP SYSTEM O.R. PROCEDURES W CC	2.4441	1	36	7.2
77	OTHER RESP SYSTEM O.R. PROCEDURES W/O CC	1.4745	1	32	3.5
78	PULMONARY EMBOLISM	1.6011	1	36	7.8
79	RESPIRATORY INFECTIONS & INFLAMMATIONS AGE >17 W CC	2.3529	1	37	8.7
80	RESPIRATORY INFECTIONS & INFLAMMATIONS AGE >17 W/O CC	1.2360	1	35	6.1
81	RESPIRATORY INFECTIONS & INFLAMMATIONS AGE 0-17	2.2189	1	34	5.6
82	RESPIRATORY NEOPLASMS	1.5896	1	34	5.6
83	MAJOR CHEST TRAUMA W CC	1.2621	1	33	4.8
84	MAJOR CHEST TRAUMA W/O CC	0.5709	1	20	2.6
85	PLEURAL EFFUSION W CC	2.3385	1	35	6.7
86	PLEURAL EFFUSION W/O CC	0.9208	1	28	3.9
87	PULMONARY EDEMA & RESPIRATORY FAILURE	2.3477	1	35	6.2
88	CHRONIC OBSTRUCTIVE PULMONARY DISEASE	1.1219	1	34	5.0
89	SIMPLE PNEUMONIA & PLEURISY AGE >17 W CC	1.4110	1	35	6.0
90	SIMPLE PNEUMONIA & PLEURISY AGE >17 W/O CC	0.8243	1	24	4.4
91	SIMPLE PNEUMONIA & PLEURISY AGE 0-17	0.6512	1	18	3.5
92	INTERSTITIAL LUNG DISEASE W CC	1.6108	1	34	5.6
93	INTERSTITIAL LUNG DISEASE W/O CC	0.8937	1	32	3.8
94	PNEUMOTHORAX W CC	1.4480	1	34	5.9
95	PNEUMOTHORAX W/O CC	0.6670	1	30	3.9
96	BRONCHITIS & ASTHMA AGE >17 W CC	1.0585	1	30	4.8
97	BRONCHITIS & ASTHMA AGE >17 W/O CC	0.6940	1	21	3.5
98	BRONCHITIS & ASTHMA AGE 0-17	0.5411	1	15	2.8
99	RESPIRATORY SIGNS & SYMPTOMS W CC	0.9752	1	30	3.2
100	RESPIRATORY SIGNS & SYMPTOMS W/O CC	0.5765	1	15	2.2
101	OTHER RESPIRATORY SYSTEM DIAGNOSES W CC	1.2262	1	32	4.0
102	OTHER RESPIRATORY SYSTEM DIAGNOSES W/O CC	0.6718	1	31	2.5
103	HEART TRANSPLANT	14.9824	1	54	25.0
104	CARDIAC VALVE PROCEDURE W CARDIAC CATH	8.2233	2	43	14.2
105	CARDIAC VALVE PROCEDURE W/O CARDIAC CATH	6.5293	2	39	10.4
106	CORONARY BYPASS W CARDIAC CATH	5.9450	3	36	11.2
107	CORONARY BYPASS W/O CARDIAC CATH	5.1343	2	31	9.0
108	OTHER CARDIOTHORACIC PROCEDURES	5.3402	1	37	8.9
109	NO LONGER VALID	----	----	----	----
110	MAJOR CARDIOVASCULAR PROCEDURES W CC	4.0800	1	37	8.9
111	MAJOR CARDIOVASCULAR PROCEDURES W/O CC	2.8974	1	35	6.4
112	PERCUTANEOUS CARDIOVASCULAR PROCEDURES	2.2669	1	31	3.9
113	AMPUTATION FOR CIRC SYSTEM DISORDERS EXCEPT UPPER LIMB & TOE	3.8962	1	44	15.2
114	UPPER LIMB & TOE AMPUTATION FOR CIRC SYSTEM DISORDERS	1.8468	1	36	7.3
115	PERM CARDIAC PACEMAKER IMPLANT W AMI, HEART FAILURE OR SHOCK	4.7169	3	38	10.9
116	PERM CARDIAC PACEMAKER IMPLANT W/O AMI, HEART FAILURE OR SHOCK	3.1189	1	33	4.8
117	CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT	1.2330	1	17	3.7
118	CARDIAC PACEMAKER DEVICE REPLACEMENT	2.5920	1	32	3.5
119	VEIN LIGATION & STRIPPING	0.7276	1	16	2.1
120	OTHER CIRCULATORY SYSTEM O.R. PROCEDURES	2.6051	1	36	7.3

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**EXHIBIT 2-1: FY91 (VERSION 8) DRG GROUPER CASE WEIGHTS WITH  
CHAMPUS OUTLIER CRITERIA  
(Continued)**

DRG	Description	Case	Low	High	GLOS
		Weight	Trim Point	Trim Point	
121	CIRCULATORY DISORDERS W AMI & C.V. COMP DISCH ALIVE	2.1210	1	35	6.7
122	CIRCULATORY DISORDERS W AMI W/O C.V. COMP DISCH ALIVE	1.5015	1	34	5.1
123	CIRCULATORY DISORDERS W AMI, EXPIRED	2.1589	1	31	2.5
124	CIRCULATORY DISORDERS EXCEPT AMI, W CARD CATH & COMPLEX DIAG	1.4304	1	32	3.5
125	CIRCULATORY DISORDERS EXCEPT AMI, W CARD CATH W/O COMPLEX DIAG	0.9079	1	19	2.1
126	ACUTE & SUBACUTE ENDOCARDITIS	3.0086	1	42	14.0
127	HEART FAILURE & SHOCK	1.2961	1	34	5.1
128	DEEP VEIN THROMBOPHLEBITIS	0.8768	1	31	6.4
129	CARDIAC ARREST, UNEXPLAINED	2.1715	1	31	2.7
130	PERIPHERAL VASCULAR DISORDERS W CC	1.2637	1	34	5.5
131	PERIPHERAL VASCULAR DISORDERS W/O CC	0.7082	1	32	3.6
132	ATHEROSCLEROSIS W CC	1.5879	1	32	3.7
133	ATHEROSCLEROSIS W/O CC	1.2139	1	31	3.0
134	HYPERTENSION	0.6142	1	23	3.1
135	CARDIAC CONGENITAL & VALVULAR DISORDERS AGE >17 W CC	1.8256	1	32	3.1
136	CARDIAC CONGENITAL & VALVULAR DISORDERS AGE >17 W/O CC	0.6080	1	11	2.0
137	CARDIAC CONGENITAL & VALVULAR DISORDERS AGE 0-17	1.3828	1	29	2.2
138	CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W CC	0.9300	1	30	3.3
139	CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W/O CC	0.6046	1	18	2.4
140	ANGINA PECTORIS	0.7859	1	18	2.7
141	SYNCOPE & COLLAPSE W CC	0.6765	1	23	3.0
142	SYNCOPE & COLLAPSE W/O CC	0.5384	1	16	2.3
143	CHEST PAIN	0.5914	1	12	2.1
144	OTHER CIRCULATORY DIAGNOSES WITH CC	1.4044	1	33	4.2
145	OTHER CIRCULATORY DIAGNOSES W/O CC	0.8652	1	25	2.6
146	RECTAL RESECTION W CC	2.7840	3	34	11.1
147	RECTAL RESECTION W/O CC	1.7057	2	28	8.1
148	MAJOR SMALL & LARGE BOWEL PROCEDURES W CC	3.5149	2	40	11.4
149	MAJOR SMALL & LARGE BOWEL PROCEDURES W/O CC	1.9086	1	37	8.0
150	PERITONEAL ADHESIOLYSIS W CC	2.7060	1	38	9.1
151	PERITONEAL ADHESIOLYSIS W/O CC	1.2523	1	34	5.6
152	MINOR SMALL & LARGE BOWEL PROCEDURES W CC	2.0675	1	37	8.2
153	MINOR SMALL & LARGE BOWEL PROCEDURE W/O CC	1.1429	1	28	5.4
154	STOMACH, ESOPHAGEAL & DUODENAL PROCEDURES AGE >17 W CC	3.6369	1	38	10.0
155	STOMACH, ESOPHAGEAL & DUODENAL PROCEDURES AGE >17 W/O CC	1.7915	1	31	6.9
156	STOMACH, ESOPHAGEAL & DUODENAL PROCEDURES AGE 0-17	1.2797	1	33	4.6
157	ANAL AND STOMAL PROCEDURES W CC	0.9030	1	27	3.5
158	ANAL AND STOMAL PROCEDURES W/O CC	0.5648	1	12	2.2
159	HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL AGE >17 W CC	1.1940	1	33	4.1
160	HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL AGE >17 W/O CC	0.7927	1	18	2.2
161	INGUINAL & FEMORAL HERNIA PROCEDURES AGE >17 W CC	0.6996	1	14	2.1
162	INGUINAL & FEMORAL HERNIA PROCEDURES AGE >17 W/O CC	0.5294	1	7	1.6
163	HERNIA PROCEDURES AGE 0-17	0.4506	1	5	1.3
164	APPENDECTOMY W COMPLICATED PRINCIPAL DIAG W CC	2.1141	1	37	8.5
165	APPENDECTOMY W COMPLICATED PRINCIPAL DIAG W/O CC	1.1890	1	24	5.1
166	APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W CC	1.0452	1	19	4.1
167	APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W/O CC	0.7118	1	10	2.9
168	MOUTH PROCEDURES W CC	0.9555	1	32	3.1
169	MOUTH PROCEDURES W/O CC	0.6523	1	15	1.8
170	OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W CC	2.8657	1	37	8.4
171	OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W/O CC	1.0559	1	32	3.8
172	DIGESTIVE MALIGNANCY W CC	1.8335	1	35	6.3
173	DIGESTIVE MALIGNANCY W/O CC	1.1363	1	33	4.6
174	G.I. HEMORRHAGE W CC	1.0641	1	25	4.2
175	G.I. HEMORRHAGE W/O CC	0.6538	1	18	3.1
176	COMPLICATED PEPTIC ULCER	1.0141	1	33	4.7
177	UNCOMPLICATED PEPTIC ULCER W CC	0.8330	1	24	3.9
178	UNCOMPLICATED PEPTIC ULCER W/O CC	0.5983	1	20	3.0
179	INFLAMMATORY BOWEL DISEASE	1.2394	1	34	5.7
180	G.I. OBSTRUCTION W CC	1.0375	1	33	4.8

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**EXHIBIT 2-1: FY91 (VERSION 8) DRG GROUPER CASE WEIGHTS WITH  
CHAMPUS OUTLIER CRITERIA  
(Continued)**

DRG	Description	Case	Low	High	GLOS
		Weight	Trim Point	Trim Point	
181	G.I. OBSTRUCTION W/O CC	0.5908	1	25	3.1
182	ESOPHAGITIS, GASTROENT, & MISC DIGEST DISORDERS AGE >17 W CC	0.7183	1	26	3.4
183	ESOPHAGITIS, GASTROENT, & MISC DIGEST DISORDERS AGE >17 W/O CC	0.5362	1	19	2.7
184	ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS AGE 0-17	0.3535	1	14	2.3
185	DENTAL & ORAL DIS EXCEPT EXTRACTIONS & RESTORATIONS, AGE >17	0.7433	1	30	3.1
186	DENTAL & ORAL DIS EXCEPT EXTRACTIONS & RESTORATIONS, AGE 0-17	0.4058	1	14	2.4
187	DENTAL EXTRACTIONS & RESTORATIONS	0.6438	1	11	1.7
188	OTHER DIGESTIVE SYSTEM DIAGNOSES AGE >17 W CC	0.9747	1	33	4.1
189	OTHER DIGESTIVE SYSTEM DIAGNOSES AGE >17 W/O CC	0.5002	1	23	2.3
190	OTHER DIGESTIVE SYSTEM DIAGNOSES AGE 0-17	0.3911	1	12	1.8
191	PANCREAS, LIVER & SHUNT PROCEDURES W CC	5.1119	1	42	13.1
192	PANCREAS, LIVER & SHUNT PROCEDURES W/O CC	2.9142	1	39	10.3
193	BILIARY TRACT PROC EXCEPT ONLY TOT CHOLECYST W OR W/O C.D.E. W	3.3941	1	41	12.0
194	BILIARY TRACT PROC EXCEPT ONLY TOT CHOLECYST W OR W/O C.D.E. W/	1.7502	1	36	7.0
195	TOTAL CHOLECYSTECTOMY W C.D.E. W CC	1.8708	1	32	7.8
196	TOTAL CHOLECYSTECTOMY W C.D.E. W/O CC	1.4161	2	20	6.7
197	TOTAL CHOLECYSTECTOMY W/O C.D.E. W CC	1.5080	1	25	6.1
198	TOTAL CHOLECYSTECTOMY W/O C.D.E. W/O CC	0.9790	1	15	4.4
199	HEPATOBIILIARY DIAGNOSTIC PROCEDURE FOR MALIGNANCY	2.3765	1	37	8.6
200	HEPATOBIILIARY DIAGNOSTIC PROCEDURE FOR NON-MALIGNANCY	1.9349	1	34	5.9
201	OTHER HEPATOBIILIARY OR PANCREAS O.R. PROCEDURES	2.6187	1	35	6.1
202	CIRRHOSIS & ALCOHOLIC HEPATITIS	1.7418	1	35	6.5
203	MALIGNANCY OF HEPATOBIILIARY SYSTEM OR PANCREAS	1.3748	1	34	5.3
204	DISORDERS OF PANCREAS EXCEPT MALIGNANCY	1.1765	1	34	5.3
205	DISORDERS OF LIVER EXC MALIG, CIRR, ALC HEP A W CC	1.6793	1	34	5.4
206	DISORDERS OF LIVER EXC MALIG, CIRR, ALC HEP A W/O CC	0.5886	1	31	2.5
207	DISORDERS OF THE BILIARY TRACT W CC	1.0638	1	33	4.2
208	DISORDERS OF THE BILIARY TRACT W/O CC	0.6209	1	21	2.6
209	MAJOR JOINT & LIMB REATTACHMENT PROCEDURES	2.9407	2	28	9.1
210	HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT AGE >17 W CC	2.6268	1	39	10.3
211	HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT AGE >17 W/O CC	1.8461	1	36	7.8
212	HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT AGE 0-17	1.5130	1	33	4.6
213	AMPUTATIONS FOR MUSCULOSKELETAL SYSTEM & CONN TISSUE DISORDERS	2.2234	1	37	8.5
214	BACK & NECK PROCEDURES W CC	1.9361	1	35	6.6
215	BACK & NECK PROCEDURES W/O CC	1.2615	1	26	4.8
216	BIOPSIES OF MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE	1.7244	1	33	4.7
217	WND DEBRID & SKN GRFT EXC HAND, FOR MUSCSKELET & CONN. TISS DIS	2.6197	1	36	7.1
218	LOWER EXTREM & HUMER PROC EXCEPT HIP, FOOT, FEMUR AGE >17 W CC	1.6089	1	34	5.6
219	LOWER EXTREM & HUMER PROC EXCEPT HIP, FOOT, FEMUR AGE >17 W/O	1.0345	1	21	3.6
220	LOWER EXTREM & HUMER PROC EXCEPT HIP, FOOT, FEMUR AGE 0-17	0.7933	1	18	2.3
221	KNEE PROCEDURES W CC	1.5331	1	33	4.4
222	KNEE PROCEDURES W/O CC	0.9868	1	14	2.5
223	MAJOR SHOULDER/ELBOW PROC, OR OTHER UPPER EXTREMITY PROC WITH CC	0.8830	1	19	2.6
224	SHOULDER, ELBOW OR FOREARM PROC, EXC MAJOR JOINT PROC, W/O CC	0.7380	1	11	2.0
225	FOOT PROCEDURES	0.7363	1	13	2.1
226	SOFT TISSUE PROCEDURES W CC	1.2258	1	32	3.9
227	SOFT TISSUE PROCEDURES W/O CC	0.7549	1	17	2.3
228	MAJOR THUMB OR JOINT PROC, OR OTH HAND OR WRIST PROC WITH CC	0.7922	1	12	2.0
229	HAND OR WRIST PROC, EXCEPT MAJOR JOINT PROC, W/O CC	0.6084	1	8	1.6
230	LOCAL EXCISION & REMOVAL OF INT FIX DEVICES OF HIP & FEMUR	0.6759	1	14	2.0
231	LOCAL EXCISION & REMOVAL OF INT FIX DEVICES EXCEPT HIP & FEMUR	0.9585	1	27	2.4
232	ARTHROSCOPY	0.9692	1	22	2.0
233	OTHER MUSCULOSKELET SYS & CONN TISS O.R. PROC W CC	2.6703	1	35	6.6
234	OTHER MUSCULOSKELET SYS & CONN TISS O.R. PROC W/O CC	1.0374	1	27	3.0
235	FRACTURES OF FEMUR	1.2218	1	36	7.5
236	FRACTURES OF HIP & PELVIS	1.1903	1	35	6.6
237	SPRAINS, STRAINS, & DISLOCATIONS OF HIP, PELVIS & THIGH	0.5372	1	31	2.4
238	OSTEOMYELITIS	1.3621	1	35	7.0
239	PATHOLOGICAL FRACTURES & MUSCULOSKELETAL & CONN TISS MALIGNCY	1.5201	1	35	6.8
240	CONNECTIVE TISSUE DISORDERS W CC	1.5434	1	34	5.6

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**EXHIBIT 2-1: FY91 (VERSION 8) DRG GROUPER CASE WEIGHTS WITH  
CHAMPUS OUTLIER CRITERIA  
(Continued)**

DRG	Description	Case	Low	High	GLOS
		Weight	Trim Point	Trim Point	
241	CONNECTIVE TISSUE DISORDERS W/O CC	0.7234	1	32	3.6
242	SEPTIC ARTHRITIS	1.4697	1	35	6.5
243	MEDICAL BACK PROBLEMS	0.6259	1	32	3.2
244	BONE DISEASES & SEPTIC ARTHROPATHIES W CC	1.3405	1	33	4.4
245	BONE DISEASES & SEPTIC ARTHROPATHIES W/O CC	0.9556	1	32	3.9
246	NON-SPECIFIC ARTHROPATHIES	0.6460	1	27	4.1
247	SIGNS & SYMPTOMS OF MUSCULOSKELETAL SYSTEM & CONN TISSUE	0.6295	1	32	3.3
248	TENDONITIS, MYOSITIS & BURSITIS	0.5841	1	24	2.7
249	AFTERCARE, MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE	0.8265	1	32	3.6
250	FX SPRN, STRN & DISL OF FOREARM, HAND, FOOT AGE >17 W CC	0.8391	1	31	2.8
251	FX SPRN, STRN & DISL OF FOREARM, HAND, FOOT AGE >17 W/O CC	0.5148	1	12	1.7
252	FX, SPRN, STRN & DISL OF FOREARM, HAND, FOOT AGE 0-17	0.3638	1	5	1.3
253	FX SPRN, STRN & DISL OF UPARM, LOWLEG EX FOOT AGE >17 W CC	0.9303	1	33	4.5
254	FX SPRN, STRN & DISL OF UPARM, LOWLEG EX FOOT AGE >17 W/O CC	0.5219	1	20	2.6
255	FX, SPRN, STRN & DISL OF UPARM, LOWLEG EX FOOT AGE 0-17	0.4191	1	14	1.8
256	OTHER MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE DIAGNOSES	0.6718	1	31	2.6
257	TOTAL MASTECTOMY FOR MALIGNANCY W CC	1.0889	1	18	4.1
258	TOTAL MASTECTOMY FOR MALIGNANCY W/O CC	0.8870	1	14	3.4
259	SUBTOTAL MASTECTOMY FOR MALIGNANCY W CC	1.3701	1	32	3.5
260	SUBTOTAL MASTECTOMY FOR MALIGNANCY W/O CC	0.7378	1	10	2.2
261	BREAST PROC FOR NON-MALIGNANCY EXCEPT BIOPSY & LOCAL EXCISION	0.9349	1	10	2.1
262	BREAST BIOPSY & LOCAL EXCISION FOR NON-MALIGNANCY	0.5475	1	9	1.7
263	SKIN GRAFT &/OR DEBRID FOR SKIN ULCER OR CELLULITIS W CC	3.0170	1	40	11.5
264	SKIN GRAFT &/OR DEBRID FOR SKIN ULCER OR CELLULITIS W/O CC	1.8895	1	35	6.8
265	SKIN GRAFT AND/OR DEBRID EXCEPT FOR SKIN ULCER OR CELLULITIS WI	1.7689	1	34	5.2
266	SKIN GRAFT AND/OR DEBRID EXCEPT FOR SKIN ULCER OR CELLULITIS W/	0.9502	1	26	2.8
267	PERIANAL & PILONIDAL PROCEDURES	0.5309	1	10	1.6
268	SKIN, SUBCUTANEOUS TISSUE & BREAST PLASTIC PROCEDURES	0.7786	1	12	1.6
269	OTHER SKIN, SUBCUT TISS & BREAST O.R. PROC W CC	1.8459	1	34	5.7
270	OTHER SKIN, SUBCUT TISS & BREAST O.R. PROC W/O CC	0.7323	1	22	2.3
271	SKIN ULCERS	1.4933	1	36	7.9
272	MAJOR SKIN DISORDERS W CC	1.3829	1	34	5.1
273	MAJOR SKIN DISORDERS W/O CC	0.7546	1	33	4.2
274	MALIGNANT BREAST DISORDERS W CC	2.0838	1	35	6.6
275	MALIGNANT BREAST DISORDERS W/O CC	1.6268	1	32	3.6
276	NON-MALIGNANT BREAST DISORDERS	0.6935	1	25	2.6
277	CELLULITIS AGE >17 W CC	0.9297	1	33	5.2
278	CELLULITIS AGE >17 W/O CC	0.6602	1	25	4.1
279	CELLULITIS AGE 0-17	0.4934	1	17	3.1
280	TRAUMA TO THE SKIN, SUBCUT TISS & BREAST AGE >17 W CC	0.7382	1	31	2.9
281	TRAUMA TO THE SKIN, SUBCUT TISS & BREAST AGE >17 W/O CC	0.5108	1	21	2.0
282	TRAUMA TO THE SKIN, SUBCUT TISS & BREAST AGE 0-17	0.3787	1	10	1.6
283	MINOR SKIN DISORDERS W CC	0.7419	1	32	3.7
284	MINOR SKIN DISORDERS W/O CC	0.5032	1	29	2.6
285	AMPUTAT OF LOWER LIMB FOR ENDOCRINE, NUTRIT&METABOL DISORDERS	2.7431	1	42	13.6
286	ADRENAL & PITUITARY PROCEDURES	2.1104	1	33	6.6
287	SKIN GRAFTS & WOUND DEBRID FOR ENDOC, NUTRIT & METAB DISORDERS	2.2301	1	38	9.1
288	O.R. PROCEDURES FOR OBESITY	1.7266	1	14	5.0
289	PARATHYROID PROCEDURES	0.8712	1	13	2.7
290	THYROID PROCEDURES	0.7487	1	9	2.3
291	THYROID GLOSSAL PROCEDURES	0.5076	1	4	1.2
292	OTHER ENDOCRINE, NUTRIT & METAB O.R. PROC W CC	3.1150	1	39	10.6
293	OTHER ENDOCRINE, NUTRIT & METAB O.R. PROC W/O CC	0.9387	1	29	3.5
294	DIABETES AGE >35	0.7571	1	28	4.8
295	DIABETES AGE 0-35	0.5850	1	21	3.4
296	NUTRITIONAL & MISC METABOLIC DISORDERS AGE >17 W CC	1.1324	1	33	4.7
297	NUTRITIONAL & MISC METABOLIC DISORDERS AGE >17 W/O CC	0.5699	1	31	3.0
298	NUTRITIONAL & MISC METABOLIC DISORDERS AGE 0-17	0.4416	1	20	2.6
299	INBORN ERRORS OF METABOLISM	1.0326	1	33	4.5
300	ENDOCRINE DISORDERS W CC	1.0508	1	32	3.9

-Continued-

**EXHIBIT 2-1: FY91 (VERSION 8) DRG GROUPER CASE WEIGHTS WITH  
CHAMPUS OUTLIER CRITERIA  
(Continued)**

DRG	Description	Case Weight	Low Trim Point	High Trim Point	GLOS
301	ENDOCRINE DISORDERS W/O CC	0.6318	1	27	2.6
302	KIDNEY TRANSPLANT	6.7453	3	44	15.6
303	KIDNEY, URETER & MAJOR BLADDER PROCEDURES FOR NEOPLASM	2.5181	2	32	9.0
304	KIDNEY, URETER & MAJOR BLADDER PROC FOR NON-NEOPL W CC	2.0428	1	36	7.3
305	KIDNEY, URETER & MAJOR BLADDER PROC FOR NON-NEOPL W/O CC	1.2256	1	32	4.4
306	PROSTATECTOMY W CC	1.5412	1	34	5.2
307	PROSTATECTOMY W/O CC	0.8123	1	23	3.5
308	MINOR BLADDER PROCEDURES W CC	1.4083	1	33	4.7
309	MINOR BLADDER PROCEDURES W/O CC	0.9558	1	26	2.9
310	TRANSURETHRAL PROCEDURES W CC	1.0151	1	24	3.1
311	TRANSURETHRAL PROCEDURES W/O CC	0.7409	1	15	2.3
312	URETHRAL PROCEDURES, AGE >17 W CC	0.7523	1	31	2.6
313	URETHRAL PROCEDURES, AGE >17 W/O CC	0.6544	1	14	1.8
314	URETHRAL PROCEDURES, AGE 0-17	0.5581	1	10	1.5
315	OTHER KIDNEY & URINARY TRACT O.R. PROCEDURES	2.2738	1	35	6.4
316	RENAL FAILURE	1.9648	1	34	5.7
317	ADMIT FOR RENAL DIALYSIS	0.3499	1	21	2.2
318	KIDNEY & URINARY TRACT NEOPLASMS W CC	1.5489	1	34	5.6
319	KIDNEY & URINARY TRACT NEOPLASMS W/O CC	1.1492	1	32	3.5
320	KIDNEY & URINARY TRACT INFECTIONS AGE >17 W CC	0.9528	1	31	4.7
321	KIDNEY & URINARY TRACT INFECTIONS AGE >17 W/O CC	0.6311	1	18	3.6
322	KIDNEY & URINARY TRACT INFECTIONS AGE 0-17	0.5536	1	19	3.5
323	URINARY STONES W CC, &/OR ESW LITHOTRIPSY	0.7595	1	16	2.2
324	URINARY STONES W/O CC	0.4629	1	9	1.7
325	KIDNEY & URINARY TRACT SIGNS & SYMPTOMS AGE >17 W CC	1.0265	1	32	3.7
326	KIDNEY & URINARY TRACT SIGNS & SYMPTOMS AGE >17 W/O CC	0.5236	1	21	2.5
327	KIDNEY & URINARY TRACT SIGNS & SYMPTOMS AGE 0-17	0.3690	1	11	1.9
328	URETHRAL STRICTURE AGE >17 W CC	0.6346	1	33	3.8
329	URETHRAL STRICTURE AGE >17 W/O CC	0.4135	1	7	1.5
330	URETHRAL STRICTURE AGE 0-17	0.2754	1	9	1.6
331	OTHER KIDNEY & URINARY TRACT DIAGNOSES AGE >17 W CC	0.9348	1	32	3.8
332	OTHER KIDNEY & URINARY TRACT DIAGNOSES AGE >17 W/O CC	0.6318	1	29	2.8
333	OTHER KIDNEY & URINARY TRACT DIAGNOSES AGE 0-17	0.8659	1	32	3.0
334	MAJOR MALE PELVIC PROCEDURES WITH CC	2.2792	3	22	8.3
335	MAJOR MALE PELVIC PROCEDURES W/O CC	1.6317	1	26	6.8
336	TRANSURETHRAL PROSTATECTOMY W CC	1.0504	1	18	4.3
337	TRANSURETHRAL PROSTATECTOMY W/O CC	0.7266	1	10	3.3
338	TESTES PROCEDURES, FOR MALIGNANCY	0.8927	1	31	2.5
339	TESTES PROCEDURES, NON-MALIGNANCY AGE >17	0.5388	1	9	1.5
340	TESTES PROCEDURES, NON-MALIGNANCY AGE 0-17	0.4871	1	5	1.4
341	PENIS PROCEDURES	0.9275	1	22	2.5
342	CIRCUMCISION AGE >17	0.4971	1	24	2.3
343	CIRCUMCISION AGE 0-17	0.4229	1	2	1.2
344	OTHER MALE REPRODUCTIVE SYSTEM O.R. PROCEDURES FOR MALIGNANCY	1.4182	1	31	5.6
345	OTHER MALE REPRODUCTIVE SYSTEM O.R. PROC EXCEPT FOR MALIGNANCY	0.5393	1	8	2.1
346	MALIGNANCY, MALE REPRODUCTIVE SYSTEM, W CC	1.2738	1	33	4.5
347	MALIGNANCY, MALE REPRODUCTIVE SYSTEM, W/O CC	1.1618	1	25	4.1
348	BENIGN PROSTATIC HYPERTROPHY W CC	0.5046	1	12	1.8
349	BENIGN PROSTATIC HYPERTROPHY W/O CC	0.4598	1	13	1.9
350	INFLAMMATION OF THE MALE REPRODUCTIVE SYSTEM	0.6208	1	22	3.5
351	STERILIZATION, MALE	0.3293	1	5	1.3
352	OTHER MALE REPRODUCTIVE SYSTEM DIAGNOSES	0.5722	1	22	2.1
353	PELVIC EVISCERATION, RADICAL HYSTERECTOMY & VULVECTOMY	2.2394	1	37	8.6
354	UTERINE,ADNEXA PROC FOR NON-OVARIAN/ADNEXAL MALIG W CC	1.4736	1	23	6.1
355	UTERINE,ADNEXA PROC FOR NON-OVARIAN/ADNEXAL MALIG W/O CC	0.9082	1	12	4.2
356	FEMALE REPRODUCTIVE SYSTEM RECONSTRUCTIVE PROCEDURES	0.8425	1	14	3.9
357	UTERUS & ADENEXA PROC FOR OVARIAN OR ADNEXAL MALIGNANCY	1.8611	1	35	7.1
358	UTERUS & ADENEXA PROC FOR NON-MALIGNANCY W CC	1.1552	1	14	4.7
359	UTERUS & ADENEXA PROC FOR NON-MALIGNANCY W/O CC	0.9099	1	11	3.9
360	VAGINA, CERVIC & VULVA PROCEDURES	0.6866	1	20	2.5

-Continued--

**EXHIBIT 2-1: FY91 (VERSION 8) DRG GROUPER CASE WEIGHTS WITH  
CHAMPUS OUTLIER CRITERIA  
(Continued)**

DRG	Description	Case	Low	High	GLOS
		Weight	Trim Point	Trim Point	
361	LAPAROSCOPY & INCISIONAL TUBAL INTERRUPTION	0.7317	1	21	2.4
362	ENDOSCOPIC TUBAL INTERRUPTION	0.3886	1	5	1.4
363	D&C, CONIZATION & RADIO-IMPLANT, FOR MALIGNANCY	0.6316	1	14	2.4
364	D&C, CONIZATION EXCEPT FOR MALIGNANCY	0.4676	1	10	1.6
365	OTHER FEMALE REPRODUCTIVE SYSTEM O.R. PROCEDURES	1.2792	1	33	4.7
366	MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W CC	1.4437	1	35	6.1
367	MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W/O CC	0.8564	1	31	2.8
368	INFECTIONS, FEMALE REPRODUCTIVE SYSTEM	0.5769	1	17	3.3
369	MENSTRUAL & OTHER FEMALE REPRODUCTIVE SYSTEM DISORDERS	0.4701	1	15	2.2
370	CESAREAN SECTION WITH C. C.	0.9633	1	14	4.6
371	CESAREAN SECTION W/O C. C.	0.7694	1	8	3.9
372	VAGINAL DELIVERY W COMPLICATING DIAGNOSES	0.5779	1	14	2.8
373	VAGINAL DELIVERY W/O COMPLICATING DIAGNOSES	0.3916	1	6	2.0
374	VAGINAL DELIVERY W STERILIZATION AND/OR D&C	0.6281	1	6	2.4
375	VAGINAL DELIVERY WITH O.R. PROC EXCEPT STERIL &/OR D+C	0.6221	1	15	2.5
376	POSTPARTUM & POST ABORTION DIAGNOSES W/O O.R. PROCEDURE	0.4706	1	15	2.5
377	POSTPARTUM AND POST ABORTION DIAGNOSES W O.R. PROCEDURE	0.7002	1	19	2.1
378	ECTOPIC PREGNANCY	0.7821	1	11	3.1
379	THREATENED ABORTION	0.3666	1	19	2.1
380	ABORTION W/O D&C	0.3207	1	6	1.4
381	ABORTION W D&C, ASPIRATION CURETTAGE OR HYSTEROTOMY	0.4018	1	4	1.2
382	FALSE LABOR	0.1700	1	5	1.2
383	OTHER ANTEPARTUM DIAGNOSES W MEDICAL COMPLICATIONS	0.3524	1	16	2.5
384	OTHER ANTEPARTUM DIAGNOSES W/O MEDICAL COMPLICATIONS	0.3282	1	17	1.9
385	NO LONGER VALID	----	----	----	----
386	NO LONGER VALID	----	----	----	----
387	NO LONGER VALID	----	----	----	----
388	NO LONGER VALID	----	----	----	----
389	NO LONGER VALID	----	----	----	----
390	NO LONGER VALID	----	----	----	----
391	NORMAL NEWBORNS	0.1222	1	8	2.1
392	SPLENECTOMY AGE >17	1.9746	2	23	7.6
393	SPLENECTOMY AGE 0-17	2.5411	1	36	7.2
394	OTHER O.R. PROCEDURES OF THE BLOOD AND BLOOD FORMING ORGANS	1.0923	1	32	3.3
395	RED BLOOD CELL DISORDERS AGE >17	0.9163	1	32	3.6
396	RED BLOOD CELL DISORDERS AGE 0-17	0.5717	1	24	2.7
397	COAGULATION DISORDERS	1.1130	1	32	3.4
398	RETICULOENDOTHELIAL & IMMUNITY DISORDERS W CC	1.5915	1	34	5.9
399	RETICULOENDOTHELIAL & IMMUNITY DISORDERS W/O CC	0.7367	1	32	3.3
400	LYMPHOMA & LEUKEMIA W MAJOR O.R. PROCEDURE	2.5465	1	35	6.9
401	LYMPHOMA & NON-ACUTE LEUKEMIA W OTHER O.R. PROC W CC	3.0313	1	37	9.0
402	LYMPHOMA & NON-ACUTE LEUKEMIA W OTHER O.R. PROCEDURE W/O CC	1.1805	1	32	3.2
403	LYMPHOMA & NON-ACUTE LEUKEMIA W CC	2.8842	1	36	7.7
404	LYMPHOMA & NON-ACUTE LEUKEMIA W/O CC	1.0922	1	32	4.0
405	ACUTE LEUKEMIA W/O MAJOR O.R. PROCEDURE AGE 0-17	2.2086	1	34	5.1
406	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W MAJ O.R. PROC W CC	3.5461	1	39	10.5
407	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W MAJ O.R. PROC W/O CC	1.9867	1	35	6.5
408	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W OTHER O.R. PROC	1.4324	1	32	3.7
409	RADIOTHERAPY	0.8028	1	31	3.0
410	CHEMOTHERAPY	0.7157	1	17	2.4
411	HISTORY OF MALIGNANCY W/O ENDOSCOPY	0.2978	1	4	1.3
412	HISTORY OF MALIGNANCY W ENDOSCOPY	0.4072	1	21	2.2
413	OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W CC	1.6973	1	34	5.9
414	OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W/O CC	1.0757	1	32	3.9
415	O.R. PROCEDURE FOR INFECTIOUS & PARASITIC DISEASES	3.5417	1	39	10.3
416	SEPTICEMIA AGE >17	1.9758	1	35	6.8
417	SEPTICEMIA AGE 0-17	0.8770	1	31	4.4
418	POSTOPERATIVE & POST-TRAUMATIC INFECTIONS	0.9502	1	34	5.1
419	FEVER OF UNKNOWN ORIGIN AGE >17 W CC	1.0225	1	33	5.0
420	FEVER OF UNKNOWN ORIGIN AGE >17 W/O CC	0.7472	1	31	3.4

-Continued-

**EXHIBIT 2-1: FY91 (VERSION 8) DRG GROUPER CASE WEIGHTS WITH  
CHAMPUS OUTLIER CRITERIA  
(Continued)**

DRG	Description	Case	Low	High	GLOS
		Weight	Trim Point	Trim Point	
421	VIRAL ILLNESS AGE >17	0.5912	1	20	3.1
422	VIRAL ILLNESS & FEVER OF UNKNOWN ORIGIN AGE 0-17	0.4437	1	13	2.7
423	OTHER INFECTIOUS & PARASITIC DISEASES DIAGNOSES	1.4288	1	33	5.0
424	O.R. PROCEDURE W PRINCIPAL DIAGNOSES OF MENTAL ILLNESS	2.3511	1	43	14.8
425	ACUTE ADJUST REACT & DISTURBANCES OF PSYCHOSOCIAL DYSFUNCTION	1.0797	1	35	6.5
426	DEPRESSIVE NEUROSES	1.2920	1	38	9.2
427	NEUROSES EXCEPT DEPRESSIVE	1.8114	1	36	7.3
428	DISORDERS OF PERSONALITY & IMPULSE CONTROL	3.5325	1	38	9.8
429	ORGANIC DISTURBANCES & MENTAL RETARDATION	1.9377	1	42	13.4
430	PSYCHOSES	1.5425	1	37	8.9
431	CHILDHOOD MENTAL DISORDERS	2.8787	1	40	11.0
432	OTHER MENTAL DISORDERS DIAGNOSES	2.0099	1	42	13.1
433	ALCOHOL/DRUG ABUSE OR DEPENDENCE, LEFT AMA	0.7189	1	33	4.8
434	ALC/DRUG ABUSE OR DEPEND, DETOX OR OTH SYMPT TREAT W CC	1.3210	1	37	8.2
435	NO LONGER VALID	----	----	----	----
436	ALC/DRUG DEPENDENCE W REHABILITATION THERAPY	0.9873	1	37	8.1
437	ALC/DRUG DEPENDENCE, COMBINED REHAB & DETOX THERAPY	1.6812	6	49	20.7
438	NO LONGER VALID	----	----	----	----
439	SKIN GRAFTS FOR INJURIES	2.3198	1	33	4.2
440	WOUND DEBRIDEMENTS FOR INJURIES	1.9133	1	34	5.2
441	HAND PROCEDURES FOR INJURIES	0.8430	1	17	2.2
442	OTHER O.R. PROCEDURES FOR INJURIES W CC	2.4978	1	34	5.6
443	OTHER O.R. PROCEDURES FOR INJURIES W/O CC	1.0625	1	31	2.6
444	TRAUMATIC INJURY AGE >17 W CC	0.9504	1	33	4.1
445	TRAUMATIC INJURY AGE >17 W/O CC	0.5651	1	31	2.7
446	TRAUMATIC INJURY AGE 0-17	0.4562	1	17	2.0
447	ALLERGIC REACTIONS AGE >17	0.5197	1	18	2.1
448	ALLERGIC REACTIONS AGE 0-17	0.2790	1	11	1.5
449	POISONING & TOXIC EFFECTS OF DRUGS AGE >17 W CC	0.9098	1	31	2.8
450	POISONING & TOXIC EFFECTS OF DRUGS AGE >17 W/O CC	0.5039	1	24	2.0
451	POISONING AND TOXIC EFFECTS OF DRUGS AGE 0-17	0.4245	1	11	1.6
452	COMPLICATIONS OF TREATMENT W CC	1.4527	1	33	4.4
453	COMPLICATIONS OF TREATMENT W/O CC	0.5390	1	23	2.3
454	OTHER INJURY, POISONING & TOXIC EFFECT DIAG W CC	1.0135	1	21	2.1
455	OTHER INJURY, POISONING & TOXIC EFFECT DIAG W/O CC	0.3647	1	8	1.5
456	BURNS, TRANSFERRED TO ANOTHER ACUTE CARE FACILITY	1.5138	1	33	4.1
457	EXTENSIVE BURNS W/O O.R. PROCEDURE	6.2203	1	37	8.4
458	NON-EXTENSIVE BURNS W SKIN GRAFTS	3.1577	1	40	11.1
459	NON-EXTENSIVE BURNS W WOUND DEBRIDEMENT OR OTHER O.R. PROC	2.0217	1	36	7.2
460	NON-EXTENSIVE BURNS W/O O.R. PROCEDURE	0.8559	1	32	3.9
461	O.R. PROC WITH DIAGNOSES OF OTHER CONTACT W HEALTH SERVICES	1.2927	1	32	3.0
462	REHABILITATION	3.1031	1	44	15.6
463	SIGNS & SYMPTOMS WITH CC	0.8566	1	32	3.8
464	SIGNS & SYMPTOMS W/O CC	0.5388	1	26	2.9
465	AFTERCARE W HISTORY OF MALIGNANCY AS SECONDARY DIAGNOSIS	0.3995	1	21	1.9
466	AFTERCARE W/O HISTORY OF MALIGNANCY AS SECONDARY DIAGNOSIS	0.7089	1	31	2.4
467	OTHER FACTORS INFLUENCING HEALTH STATUS	0.4605	1	16	1.9
468	EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS	2.2231	1	34	5.3
469	PRINCIPAL DIAGNOSIS INVALID AS DISCHARGE DIAGNOSIS	----	----	----	----
470	UNGROUPABLE	----	----	----	----
471	BILATERAL OR MULTIPLE MAJOR JOINT PROCEDURES OF LOWER EXTREM	4.8206	3	42	13.5
472	EXTENSIVE BURNS W O.R. PROCEDURE	11.7637	1	50	21.0
473	ACUTE LEUKEMIA W/O MAJOR O.R. PROCEDURE AGE > 17	5.3447	1	38	9.9
474	NO LONGER VALID	----	----	----	----
475	RESPIRATORY SYSTEM DIAGNOSIS WITH VENTILATOR SUPPORT	4.3450	1	36	7.6
476	PROSTATIC O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS	2.4861	1	38	9.6
477	NON-EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS	1.3297	1	32	3.8
478	OTHER VASCULAR PROCEDURES W CC	3.0829	1	35	6.9
479	OTHER VASCULAR PROCEDURES W/O CC	1.7071	1	32	3.8
480	LIVER TRANSPLANT	17.7168	1	52	22.8

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**EXHIBIT 2-1: FY91 (VERSION 8) DRG GROUPER CASE WEIGHTS WITH  
CHAMPUS OUTLIER CRITERIA  
(Concluded)**

DRG	Description	Case	Low	High	GLOS
		Weight	Trim Point	Trim Point	
481	BONE MARROW TRANSPLANT	12.4485	1	66	36.6
482	TRACHEOSTOMY W MOUTH, LARNYX OR PHARNYX DISORDER	3.2711	2	39	10.0
483	TRACHEOSTOMY EXCEPT FOR MOUTH, LARNYX OR PHARNYX DISORDER	11.7630	1	48	19.0
484	CRANIOTOMY FOR MULTIPLE SIGNIFICANT TRAUMA	6.9972	1	43	13.5
485	LIMB REATTACHMENT, HIP AND FEMUR PROC FOR MULTIPLE SIGNIFICANT	4.8581	2	43	14.4
486	OTHER O.R. PROCEDURES FOR MULTIPLE SIGNIFICANT TRAUMA	5.3864	1	40	11.1
487	OTHER MULTIPLE SIGNIFICANT TRAUMA	2.8590	1	36	7.0
488	HIV W EXTENSIVE O.R. PROCEDURE	4.1296	1	48	18.8
489	HIV W MAJOR RELATED CONDITION	3.6808	1	39	10.8
490	HIV W OR W/O OTHER RELATED CONDITION	2.1449	1	33	4.4
600	NEONATE, DIED W/IN ONE DAY OF BIRTH	0.7679	1	1	1.0
601	NEONATE, TRANSFERRED <5 DAYS OLD	0.3424	1	8	1.7
602	NEONATE, BIRTHWT <750G, DISCHARGED ALIVE	4.1115	1	34	5.0
603	NEONATE, BIRTHWT <750G, DIED	6.6799	1	25	3.7
604	NEONATE, BIRTHWT 750-999G, DISCHARGED ALIVE	10.6475	1	54	25.7
605	NEONATE, BIRTHWT 750-999G, DIED	4.6898	1	34	6.0
606	NEONATE, BIRTHWT 1000-1499G, W SIGNIF OR PROC, DISCHARGED ALIVE	13.7310	17	90	61.5
607	NEONATE, BIRTHWT 1000-1499G, W/O SIGNIF OR PROC, DISCHARGED ALI	6.1938	1	51	22.8
608	NEONATE, BIRTHWT 1000-1499G, DIED	5.6951	1	35	6.9
609	NEONATE, BIRTHWT 1500-1999G, W SIGNIF OR PROC, W MULT MAJOR PRO	6.1661	1	47	19.0
610	NEONATE, BIRTHWT 1500-1999G, W SIGNIF OR PROC, W/O MULT MAJOR P	7.9709	12	61	32.2
611	NEONATE, BIRTHWT 1500-1999G, W/O SIGNIF OR PROC, W MULT MAJOR P	5.2900	1	43	14.3
612	NEONATE, BIRTHWT 1500-1999G, W/O SIGNIF OR PROC, W MAJOR PROB	3.9789	1	44	15.2
613	NEONATE, BIRTHWT 1500-1999G, W/O SIGNIF OR PROC W MINOR PROB	2.3547	1	42	13.2
614	NEONATE, BIRTHWT 1500-1999G, W/O SIGNIF OR PROC W OTHER PROB	1.4099	1	38	9.9
615	NEONATE, BIRTHWT 2000-2499G, W SIGNIF OR PROC, W MULT MAJOR PROB	6.3399	2	47	18.3
616	NEONATE, BIRTHWT 2000-2499G, W SIGNIF OR PROC, W/O MULT MAJOR PRO	9.2240	1	43	14.1
617	NEONATE, BIRTHWT 2000-2499G, W/O SIGNIF OR PROC, W MULT MAJOR PR	3.7257	1	39	10.4
618	NEONATE, BIRTHWT 2000-2499G, W/O SIGNIF OR PROC, W MAJOR PROB	2.3618	1	37	8.9
619	NEONATE, BIRTHWT 2000-2499G, W/O SIGNIF OR PROC, W MINOR PROB	1.4565	1	36	7.5
620	NO LONGER VALID	----	----	----	----
621	NEONATE, BIRTHWT 2000-2499G, W/O SIGNIF OR PROC, W OTHER PROB	0.4882	1	31	3.8
622	NEONATE, BIRTHWT >2499G, W SIGNIF OR PROC, W MULT MAJOR PROB	8.4813	1	46	17.6
623	NEONATE, BIRTHWT >2499G, W SIGNIF OR PROC, W/O MULT PROB	3.2339	1	35	6.6
624	NEONATE, BIRTHWT >2499G, W MINOR ABDOM PROCEDURE	0.9017	1	26	3.6
625	NO LONGER VALID	----	----	----	----
626	NEONATE, BIRTHWT >2499G, W/O SIGNIF OR PROC, MULT MAJOR PROB	3.7213	1	36	7.7
627	NEONATE, BIRTHWT >2499G, W/O SIGNIF OR PROC, W MAJOR PROB	1.1313	1	33	4.0
628	NEONATE, BIRTHWT >2499G, W/O SIGNIF OR PROC, W MINOR PROB	0.6175	1	26	3.7
629	NO LONGER VALID	----	----	----	----
630	NEONATE, BIRTHWT >2499G, W/O SIGNIF OR PROC, W OTHER PROB	0.1917	1	11	2.6
631	BPD AND OTH CHRONIC RESPIRATORY DISEASES ARISING IN PERINATAL P	5.5959	1	38	9.2
632	OTHER RESPIRATORY PROBLEMS AFTER BIRTH	0.7807	1	32	3.6
633	MULTIPLE, OTHER AND UNSPECIFIED CONGENITAL ANOMALIES, W CC	0.3328	1	1	1.0
634	MULTIPLE, OTHER AND UNSPECIFIED CONGENITAL ANOMALIES, W/O CC	2.4083	4	5	5.0
635	NEONATAL AFTERCARE FOR WEIGHT GAIN	1.2606	1	33	4.8
636	NEONATAL DIAGNOSIS AGE > 28 DAYS	5.1998	1	37	9.0
900	ALC/DRUG ABUSE OR DEPEND, DETOX OR OTH SYMPT TREAT AGE <=21 W/O	2.0032	1	43	14.6
901	ALC/DRUG ABUSE OR DEPEND, DETOX OR OTH SYMPT TREAT AGE > 21 W/O	1.4233	1	39	10.3

### 3.0 IMPACT OF THE GROUPER UPDATE AT CLINICAL AND DEMOGRAPHIC LEVELS

This chapter presents a review of the impact of updating from the Version 4 Diagnosis Related Group (DRG) Grouper to the Version 8 DRG Grouper at clinical and demographic levels.<sup>1</sup> In addition to comparing changes in case weights, trim points, and GLOS, reviews at the DRG level, summary clinical area, and major diagnostic category level, are presented. Lastly, the impact of the change in groupers by beneficiary status, age, and sex is reviewed. This last review displays how a change in groupers may impact per capita-based resource allocation systems.

Exhibit 3-1 provides a comparison of case weights, low and high trim points, and GLOS for each DRG for Version 4 and Version 8 DRG Groupers. This comparison is summarized in exhibits 3-2 through 3-5. It is important to note that CHAMPUS uses a slightly different methodology to compute trim points and GLOS from that used previously for computing direct care trim points and GLOS. Two basic differences exist:

- it is not apparent that CHAMPUS excludes zero bed day discharges, one day transfer discharges, discharges where LOS is outside the 5th and 95th percentiles within each DRG, or applies some similar exclusionary process; and
- CHAMPUS uses trim points based on the GLOS plus or minus the lesser of 3.0 standard deviations or 29 days, rather than the lesser of 1.96 standard deviations or 17 days, as previously used within the direct care methodology.

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<sup>1</sup> For the purpose of this study, revised FY90 Version 4 DRG outlier criteria were used. These criteria were corrected to exclude 1 day transfers from the analysis data set prior to criteria estimation. Thus, the criteria and RWP results presented here may differ slightly from that reported elsewhere. However, the overall DoD impact is relatively minor and workload differences are restricted to a 0.6% decrease in RWPs when using revised criteria.

EXHIBIT 3-1: VERSION 4 CASE WEIGHTS WITH DIRECT CARE OUTLIER CRITERIA VERSUS VERSION 8 WEIGHTS WITH CHAMPUS OUTLIER CRITERIA

DRG	Description	VERSION 4 WEIGHTS WITH DOQ OUTLIER CRITERIA					VERSION 8 WEIGHTS WITH CHAMPUS OUTLIER CRITERIA					Percentage Difference Case Weight	Absolute Difference Low Trim Point	Absolute Difference High Trim Point	Percentage Difference GLOS
		Case Weight	Low Trim Point	High Trim Point	GLOS	Case Weight	Low Trim Point	High Trim Point	GLOS						
1	CRANIOTOMY AGE >17 EXCEPT FOR TRAUMA	3.660	5	33	16.7	3.826	1	39	10.1	6.2%	-4	6	-39.6%		
2	CRANIOTOMY FOR TRAUMA AGE >17	4.4477	2	27	10.5	4.708	1	27	38	6.1%	11	11	-10.1%		
3	CRANIOTOMY AGE 0-17	2.3836	2	25	8.5	2.8052	1	34	5.9	17.7%	-1	9	-30.5%		
4	SPINAL PROCEDURES	2.1411	3	28	11.2	2.1169	1	35	6.4	-1.1%	-2	7	-42.7%		
5	EXTRACRANIAL VASCULAR PROCEDURES	1.7049	3	23	8.0	1.7360	1	26	4.7	1.8%	-2	3	-41.5%		
6	CARPAL TUNNEL RELEASE	0.5402	1	22	1.3	0.6616	1	14	2.0	22.5%	0	12	53.4%		
7	PERIPH & CRANIAL NERVE & OTHER NERV SYST PROC W CC	2.8290	1	22	5.8	2.3772	1	35	6.7	-16.0%	0	13	14.5%		
8	PERIPH & CRANIAL NERVE & OTHER NERV SYST PROC W/O CC	0.8608	1	8	2.1	0.8647	1	24	2.4	3.9%	0	16	14.4%		
9	SPINAL DISORDERS & INJURIES	2.0290	1	21	4.1	3.2062	1	40	11.9	56.1%	0	19	189.1%		
10	NERVOUS SYSTEM NEOPLASMS W CC	1.2225	2	24	7.1	1.5659	1	24	6.4	28.1%	-1	11	-9.3%		
11	NERVOUS SYSTEM NEOPLASMS W/O CC	0.8829	1	20	3.9	0.9778	1	32	3.6	10.7%	0	12	-8.4%		
12	DEGENERATIVE NERVOUS SYSTEM DISORDERS	1.6168	1	21	4.6	1.9710	1	36	7.2	21.9%	0	15	57.0%		
13	MULTIPLE SCLEROSIS & CEREBELLAR ATAXIA	0.9771	1	21	4.3	0.9247	1	34	5.3	-5.4%	0	13	21.9%		
14	SPECIFIC CEREBROVASCULAR DISORDERS EXCEPT TIA	1.4811	2	23	6.4	1.5377	1	34	5.9	5.2%	-1	11	-8.0%		
15	TRANSIENT ISCHEMIC ATTACKS AND PRECEREBRAL OCCLUSIONS	1.2609	1	14	3.1	0.7454	1	14	3.1	-0.5%	0	7	-9.4%		
16	NONSPECIFIC CEREBROVASCULAR DISORDERS W CC	0.707	1	22	5.7	1.6854	1	35	6.3	33.7%	0	13	10.0%		
17	NONSPECIFIC CEREBROVASCULAR DISORDERS W/O CC	1.2039	1	20	5.4	0.9274	1	33	4.6	-23.0%	0	11	-15.4%		
18	CRANIAL & PERIPHERAL NERVE DISORDERS W CC	0.7152	1	20	3.4	0.6860	1	32	3.3	-2.7%	0	12	-2.1%		
19	CRANIAL & PERIPHERAL NERVE DISORDERS W/O CC	1.3900	2	23	6.5	1.8427	1	36	7.4	31.7%	-1	13	13.2%		
21	VIRAL MENINGITIS	0.5790	2	9	3.1	0.6273	1	18	3.5	8.3%	-1	9	11.3%		
22	HYPERTENSIVE ENCEPHALOPATHY	0.7428	2	15	4.0	0.8183	1	29	3.3	10.2%	-1	14	-16.9%		
23	NONTRAUMATIC STUPOR & COMA	0.9647	1	14	2.9	0.6634	1	16	2.2	-28.1%	0	2	-24.0%		
24	SEIZURE & HEADACHE AGE > 17 W CC	0.9220	1	16	3.4	0.8443	1	31	3.6	-8.4%	0	15	4.8%		
25	SEIZURE & HEADACHE AGE > 17 W/O CC	0.5673	1	10	2.4	0.5366	1	22	2.8	-5.1%	0	12	14.6%		
26	SEIZURE & HEADACHE AGE 0-17	0.4713	1	5	1.7	0.5357	1	19	2.4	13.7%	0	14	40.0%		
27	TRAUMATIC STUPOR & COMA, COMA >1 HR	1.8402	1	11	2.0	2.2339	1	33	4.3	22.5%	0	22	112.0%		
28	TRAUMATIC STUPOR & COMA, COMA <1 HR AGE >17 W CC	1.2966	1	17	2.6	1.2917	1	33	4.6	2.5%	0	16	79.7%		
29	TRAUMATIC STUPOR & COMA, COMA <1 HR AGE >17 W/O CC	0.6282	1	5	1.5	1.2370	1	32	3.5	96.9%	0	27	128.9%		
30	TRAUMATIC STUPOR & COMA <1 HR AGE 0-17	0.4042	1	2	1.2	0.5655	1	23	2.0	47.3%	0	21	71.7%		
31	CONCUSSION AGE >17 W CC	0.7241	1	5	1.7	0.6317	1	21	2.2	-12.8%	0	16	31.6%		
32	CONCUSSION AGE >17 W/O CC	0.3985	1	3	1.4	0.4484	1	13	1.8	13.1%	0	10	31.2%		
33	CONCUSSION AGE 0-17	0.2338	1	2	1.1	0.2882	1	4	1.3	23.3%	0	2	14.0%		
34	OTHER DISORDERS OF NERVOUS SYSTEM W CC	1.7484	1	20	3.8	2.1045	1	34	5.3	20.4%	0	14	39.8%		
35	OTHER DISORDERS OF NERVOUS SYSTEM W/O CC	0.6482	1	16	2.6	1.1231	1	32	3.7	73.0%	0	16	40.6%		
36	RETINAL PROCEDURES	0.8106	1	19	4.4	0.7862	1	10	2.0	-2.6%	0	9	-54.2%		
37	ORBITAL PROCEDURES	0.8111	1	18	3.4	0.8711	1	21	2.2	7.4%	0	3	-35.3%		
38	PRIMARY IRIS PROCEDURES	0.4459	1	7	1.7	0.3614	1	17	2.2	-19.0%	0	10	25.9%		
39	LENS PROCEDURES WITH OR WITHOUT VITRECTOMY	0.6869	1	3	1.7	0.7245	1	5	1.3	4.1%	0	2	-22.0%		
40	EXTRAOCULAR PROCEDURES EXCEPT ORBIT AGE >17	0.4851	1	3	1.5	0.6147	1	12	1.6	26.7%	0	9	8.6%		
41	EXTRAOCULAR PROCEDURES EXCEPT ORBIT AGE 0-17	0.4295	1	2	1.1	0.4629	1	5	1.2	14.8%	0	3	4.4%		
42	INTRAOCULAR PROCEDURES EXCEPT RETINA, IRIS & LENS	0.7921	1	16	3.3	0.8275	1	14	2.1	4.5%	0	-2	-36.4%		
43	HYPERHEMIA	0.3083	2	11	3.6	0.2827	1	23	2.9	-8.3%	-1	12	-20.2%		
44	ACUTE MAJOR EYE INFECTIONS	0.4713	2	7	2.9	0.4690	1	16	3.4	-0.5%	-1	9	15.6%		
45	NEUROLOGICAL EYE DISORDERS	0.5503	1	16	3.1	0.6138	1	27	2.8	11.5%	0	11	-11.0%		
46	OTHER DISORDERS OF THE EYE AGE > 17 W CC	0.8808	1	14	2.7	0.8169	1	32	3.1	20.0%	0	18	16.2%		
47	OTHER DISORDERS OF THE EYE AGE > 17 W/O CC	0.5682	1	9	2.0	0.5074	1	24	2.2	-15.2%	0	15	9.0%		
48	OTHER DISORDERS OF THE EYE AGE 0-17	0.5002	1	5	1.7	0.4422	1	16	2.2	-11.6%	0	11	26.1%		
49	MAJOR HEAD & NECK PROCEDURES	2.7960	4	36	19.1	2.2805	1	35	6.2	-16.9%	-3	-1	-67.6%		
50	SIALOADENECTOMY	0.7656	2	8	3.6	0.7318	1	6	1.7	-4.4%	-1	-2	-52.3%		
51	SALIVARY GLAND PROCEDURES EXCEPT SIALOADENECTOMY	0.6647	1	8	2.9	0.5884	1	5	1.5	-11.9%	0	-3	-40.0%		
52	CLEFT LIP & PALATE REPAIR	0.6944	2	9	3.2	0.7219	1	12	2.1	4.0%	-1	3	-35.1%		
53	SINUS & MASTOID PROCEDURES AGE > 17	0.7476	1	8	2.6	0.6983	1	9	1.6	-7.0%	0	1	-37.6%		
54	SINUS & MASTOID PROCEDURES AGE 0-17	0.6884	1	6	2.2	0.7170	1	9	1.5	7.3%	0	3	-31.9%		
55	MISCELLANEOUS EAR, NOSE & THROAT PROCEDURES	0.4973	1	4	1.8	0.5670	1	6	1.3	18.0%	0	2	-27.3%		

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EXHIBIT 3-1: VERSION 4 CASE WEIGHTS WITH DIRECT CARE OUTLIER CRITERIA VERSUS VERSION 8 WEIGHTS WITH CHAMPUS OUTLIER CRITERIA  
(Continued)

DRG	Description	VERSION 4 WEIGHTS WITH DRO OUTLIER CRITERIA					VERSION 8 WEIGHTS WITH CHAMPUS OUTLIER CRITERIA					Absolute Difference		Percentage Difference GLOS	
		Case Weight	Low Trim Point	High Trim Point	GLOS	High Trim Point	Case Weight	Low Trim Point	High Trim Point	GLOS	Low Trim Point	High Trim Point			
56 RHINOPLASTY		0.4822	1	4	1.9	0.5429	1	4	1.3	0	0	12.6%	0	0	-30.7%
57 T & A PROC. EXCEPT TONSILLECTOMY & OR ADENOIDECTOMY ONLY, AGE > 1		0.5202	1	7	2.4	0.6521	1	12	2.1	0	5	25.4%	0	5	-12.9%
58 T & A PROC. EXCEPT TONSILLECTOMY & OR ADENOIDECTOMY ONLY, AGE 0-		0.3682	1	2	1.3	0.4267	1	3	1.1	0	0	16.5%	0	0	-14.2%
59 TONSILLECTOMY & OR ADENOIDECTOMY ONLY, AGE > 17		0.3713	1	4	2.0	0.3712	1	3	1.2	0	0	0.0%	0	0	-39.2%
60 TONSILLECTOMY & OR ADENOIDECTOMY ONLY, AGE 0-17		0.3357	1	3	1.5	0.3350	1	2	1.1	0	0	0.7%	0	0	-28.8%
61 MYRINGOTOMY WITH TUBE INSERTION AGE > 17		0.8733	1	3	1.3	0.7106	1	14	1.7	0	11	-18.6%	0	11	35.2%
62 MYRINGOTOMY WITH TUBE INSERTION AGE 0-17		0.9368	1	1	1.0	0.6121	1	24	1.9	0	23	56.4%	0	23	90.0%
63 OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES		0.9214	1	14	3.0	1.0597	1	17	2.4	0	3	15.0%	0	3	-20.8%
64 EAR, NOSE, MOUTH & THROAT MALIGNANCY		1.1117	1	21	4.0	1.0437	1	32	3.3	0	11	-6.1%	0	11	-17.9%
65 DISSEMINATED		0.5023	1	10	2.5	0.4794	1	14	2.6	0	4	-4.6%	0	4	4.8%
66 EPISTAXIS		0.5123	1	8	2.2	0.4247	1	18	2.5	0	10	-17.1%	0	10	15.1%
67 EPIGLOTTITIS		1.1043	2	11	3.4	1.1018	1	25	3.5	-1	14	-0.2%	-1	14	2.8%
68 OTITIS MEDIA & URI AGE > 17 W/O CC		0.6849	1	8	2.7	0.6452	1	19	3.4	0	11	-5.8%	0	11	24.6%
69 OTITIS MEDIA & URI > 17 W/O CC		0.4817	1	5	2.3	0.4838	1	17	2.8	0	12	0.4%	0	12	19.2%
70 OTITIS MEDIA & URI AGE 0-17		0.4018	1	5	1.8	0.4017	1	13	2.6	0	8	0.0%	0	8	43.9%
71 LARYNGOTRACHEITIS		0.3563	1	3	1.5	0.3595	1	10	1.9	0	7	-5.2%	0	7	27.3%
72 NASAL TRAUMA & DEFORMITY		0.3622	1	3	1.4	0.4875	1	7	1.7	0	4	24.3%	0	4	22.1%
73 OTHER EAR, NOSE, MOUTH & THROAT DIAGNOSES AGE > 17		0.6975	1	7	2.1	0.5217	1	20	2.4	0	13	-24.1%	0	13	14.9%
74 OTHER EAR, NOSE, MOUTH & THROAT DIAGNOSES AGE 0-17		0.4760	1	4	1.5	0.5155	1	23	2.2	0	19	8.3%	0	19	51.9%
75 MAJOR CHEST PROCEDURES		3.0582	2	27	10.3	3.3687	1	38	9.3	-1	11	10.2%	-1	11	-10.0%
76 OTHER RESP SYSTEM O.R. PROCEDURES W/O CC		3.2224	3	30	13.3	2.4441	1	36	7.2	-2	6	-24.2%	-2	6	-45.9%
77 OTHER RESP SYSTEM O.R. PROCEDURES W/O CC		1.7591	1	21	4.5	1.4745	1	32	3.5	0	11	-16.2%	0	11	-22.1%
78 PULMONARY EMBOLISM		1.6485	2	23	6.2	1.6011	1	36	7.8	-1	13	-2.9%	-1	13	24.9%
79 RESPIRATORY INFECTIONS & INFLAMMATIONS AGE > 17 W/O CC		2.8086	3	28	9.6	2.3529	1	37	8.7	-2	11	-16.2%	-2	11	-9.8%
80 RESPIRATORY INFECTIONS & INFLAMMATIONS AGE > 17 W/O CC		1.6726	2	23	6.1	1.2360	1	35	6.1	-1	12	-26.1%	-1	12	-8.5%
81 RESPIRATORY INFECTIONS & INFLAMMATIONS AGE 0-17		1.3621	1	18	3.7	2.2189	1	34	5.6	0	18	62.9%	0	18	50.8%
82 RESPIRATORY NEOPLASMS		1.3537	1	22	5.3	1.5898	1	34	5.6	0	12	17.4%	0	12	4.9%
83 MAJOR CHEST TRAUMA W/O CC		2.8979	1	21	4.1	1.2621	1	33	4.8	0	12	-56.3%	0	12	17.3%
84 MAJOR CHEST TRAUMA W/O CC		0.6126	1	10	2.5	0.5709	1	20	2.6	0	10	-8.8%	0	10	2.9%
85 PLEURAL EFFUSION W/O CC		1.3375	1	21	4.2	2.3385	1	35	6.7	0	14	74.8%	0	14	60.2%
86 PLEURAL EFFUSION W/O CC		0.6337	1	17	3.0	0.6208	1	28	3.9	0	11	-1.4%	0	11	29.4%
87 PULMONARY EDEMA & RESPIRATORY FAILURE		2.6726	1	21	4.6	2.3477	1	35	6.2	0	14	-12.2%	0	14	35.0%
88 CHRONIC OBSTRUCTIVE PULMONARY DISEASE		1.3593	2	16	4.4	1.1219	1	34	5.0	-1	18	-17.5%	-1	18	13.9%
89 SIMPLE PNEUMONIA & PLEURISY AGE > 17 W/O CC		1.5290	2	18	5.9	1.4110	1	35	6.0	-1	17	-7.7%	-1	17	2.2%
90 SIMPLE PNEUMONIA & PLEURISY AGE > 17 W/O CC		0.6350	2	9	3.6	0.6243	1	24	4.4	-1	15	-11.8%	-1	15	23.5%
91 SIMPLE PNEUMONIA & PLEURISY AGE 0-17		0.6281	1	7	2.5	0.6512	1	18	3.5	0	11	4.0%	0	11	37.9%
92 INTERSTITIAL LUNG DISEASE W/O CC		1.5426	1	21	5.0	1.6108	1	34	5.6	0	13	4.4%	0	13	12.9%
93 INTERSTITIAL LUNG DISEASE W/O CC		0.8010	1	19	3.4	0.8637	1	32	3.9	0	13	11.6%	0	13	11.0%
94 PNEUMOTHORAX W/O CC		1.5908	2	18	5.6	1.4480	1	34	5.9	-1	16	-8.4%	-1	16	4.9%
95 PNEUMOTHORAX W/O CC		0.6562	2	19	3.9	0.6670	1	30	3.9	-1	17	1.8%	-1	17	0.4%
96 BRONCHITIS & ASTHMA AGE > 17 W/O CC		1.1797	2	12	3.7	1.0595	1	30	4.9	-1	18	-10.3%	-1	18	30.7%
97 BRONCHITIS & ASTHMA AGE > 17 W/O CC		0.9014	1	7	2.6	0.6940	1	21	3.5	0	14	-13.4%	0	14	36.6%
98 BRONCHITIS & ASTHMA AGE 0-17		0.5081	1	5	2.1	0.5411	1	15	2.8	0	10	7.6%	0	10	30.3%
99 RESPIRATORY SIGNS & SYMPTOMS W/O CC		0.9411	1	15	3.0	0.9752	1	30	3.2	0	15	3.6%	0	15	8.1%
100 RESPIRATORY SIGNS & SYMPTOMS W/O CC		0.5768	1	6	1.9	0.5765	1	15	2.2	0	9	-0.4%	0	9	17.0%
101 OTHER RESPIRATORY SYSTEM DIAGNOSES W/O CC		1.3947	1	21	4.0	1.2262	1	32	4.0	0	11	-12.1%	0	11	-1.2%
102 OTHER RESPIRATORY SYSTEM DIAGNOSES W/O CC		0.7468	1	6	2.1	0.6718	1	31	2.5	0	25	-10.0%	0	25	17.7%
103 HEART TRANSPLANT		---	---	---	---	14.9624	1	54	25.0	---	---	---	---	---	---
104 CARDIAC VALVE PROCEDURE W/O CARDIAC CATH		6.7946	12	45	26.1	6.2233	2	43	14.2	-2	2	21.0%	-2	2	-48.4%
105 CARDIAC VALVE PROCEDURE W/O CARDIAC CATH		5.8168	7	33	16.4	6.5293	2	39	10.4	-5	6	12.2%	-5	6	-36.8%
106 CORONARY BYPASS W/O CARDIAC CATH		5.8104	6	34	17.4	5.8450	3	38	11.2	-5	2	2.3%	-5	2	-35.8%
107 CORONARY BYPASS W/O CARDIAC CATH		4.8604	4	29	13.8	5.1943	2	31	9.0	-5	2	5.0%	-5	2	-34.9%
108 OTHER CARDIOTHORACIC PROCEDURES		3.7739	4	27	10.5	5.3402	1	37	8.9	-3	10	41.5%	-3	10	-15.0%
109 NO LONGER VALID		4.0747	2	24	7.9	---	---	---	---	---	---	---	---	---	---
110 MAJOR CARDIOVASCULAR PROCEDURES W/O CC		3.7080	7	35	16.4	4.0800	1	37	8.9	-4	2	10.1%	-4	2	-51.8%

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EXHIBIT 3-1: VERSION 4 CASE WEIGHTS WITH DIRECT CARE OUTLIER CRITERIA VERSUS VERSION 8 WEIGHTS WITH CHAMPUS OUTLIER CRITERIA  
(Continued)

DRG	Description	VERSION 4 WEIGHTS WITH DoD OUTLIER CRITERIA					VERSION 8 WEIGHTS WITH CHAMPUS OUTLIER CRITERIA					Percentage Difference Case Weight	Absolute Difference Low Trim Point	Absolute Difference High Trim Point	Percentage Difference GLOS
		Case Weight	Low Trim Point	High Trim Point	GLOS	Case Weight	Low Trim Point	High Trim Point	GLOS						
111	MAJOR CARDIOVASCULAR PROCEDURES W/O CC	2.767	6	30	13.2	2.874	1	35	6.4	3.5%	-5	5	-51.3%		
112	PERCUTANEOUS CARDIOVASCULAR PROCEDURES	2.3117	2	39	6.4	2.2669	1	31	3.9	-1.9%	-1	8	-39.1%		
113	AMPUTATION FOR CRIC SYSTEM DISORDERS EXCEPT UPPER LIMB & TOE	3.6268	6	39	22.7	3.8962	1	44	15.2	7.4%	-5	5	-33.1%		
114	UPPER LIMB & TOE AMPUTATION FOR CRIC SYSTEM DISORDERS	2.0505	2	26	9.9	1.8468	1	36	7.3	-9.9%	-1	10	-26.2%		
115	PERI CARDIAC PACEMAKER IMPLANT W/AMI, HEART FAILURE OR SHOCK	4.7176	2	24	7.9	4.7169	3	38	10.9	0.0%	1	14	38.5%		
116	PERI CARDIAC PACEMAKER IMPLANT W/AMI, HEART FAILURE OR SHOCK	3.1581	2	21	5.5	3.1169	1	33	4.8	-2.5%	-1	12	-12.2%		
117	CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT	1.4970	2	23	6.5	1.2330	1	17	3.7	-17.6%	-1	4	-43.5%		
118	CARDIAC PACEMAKER DEVICE REPLACEMENT	2.1982	2	17	4.7	2.5920	1	32	3.5	18.0%	-1	15	-26.1%		
119	VEIN LIGATION & STRIPPING	0.7846	1	8	2.7	0.7276	1	16	2.1	-7.3%	0	8	-21.0%		
120	OTHER CIRCULATORY SYSTEM O.R. PROCEDURES	2.8012	1	24	7.8	2.6051	1	36	7.3	-7.0%	0	12	-6.4%		
121	CIRCULATORY DISORDERS W/AMI & C.V. COMP DISCH ALIVE	2.1709	3	24	7.6	2.1210	1	35	6.7	-2.3%	-2	11	-11.9%		
122	CIRCULATORY DISORDERS W/AMI W/O C.V. COMP DISCH ALIVE	1.5068	2	21	5.0	1.5015	1	34	5.1	-0.4%	-1	13	2.6%		
123	CIRCULATORY DISORDERS W/AMI, EXPIRED	2.3655	1	19	2.7	2.1989	1	31	2.5	-6.1%	0	12	-6.1%		
124	CIRCULATORY DISORDERS EXCEPT AMI, W CARD CATH & COMPLEX DIAG	1.4518	2	20	5.2	1.4304	1	32	3.5	-1.5%	-1	12	-33.3%		
125	CIRCULATORY DISORDERS EXCEPT AMI, W CARD CATH W/O COMPLEX DIAG	0.8894	1	9	2.9	0.9079	1	9	2.1	4.4%	0	10	-28.5%		
126	ACUTE & SUBACUTE ENDOCARDITIS	3.7074	2	29	12.8	3.0086	1	42	14.0	-18.9%	-1	13	8.6%		
127	HEART FAILURE & SHOCK	1.2739	2	18	4.6	1.2681	1	34	5.1	1.7%	-1	16	10.6%		
128	DEEP VEIN THROMBOPHLEBITIS	0.8339	2	22	6.0	0.8768	1	31	6.4	5.1%	-1	9	7.3%		
129	CARDIAC ARREST, UNEXPLAINED	3.5298	1	19	2.6	2.7115	1	31	2.7	-38.5%	0	12	4.7%		
130	PERIPHERAL VASCULAR DISORDERS W/CC	1.1482	2	21	4.9	1.2637	1	34	5.5	10.1%	-1	13	13.0%		
131	PERIPHERAL VASCULAR DISORDERS W/O CC	0.7643	1	18	3.8	0.7682	1	32	3.6	0.7%	0	14	-4.2%		
132	ATHEROSCLEROSIS W/CC	1.0702	1	15	3.6	1.5879	1	32	3.7	48.4%	0	17	3.1%		
133	ATHEROSCLEROSIS W/O CC	0.9704	1	12	2.9	1.2139	1	31	3.0	25.1%	0	19	2.1%		
134	HYPERTENSION	0.6540	1	13	3.0	0.6142	1	23	3.1	-6.1%	0	10	3.4%		
135	CARDIAC CONGENITAL & VALVULAR DISORDERS W/CC	0.9561	1	18	3.9	1.8256	1	32	3.1	80.9%	0	14	-20.1%		
136	CARDIAC CONGENITAL & VALVULAR DISORDERS AGE >17 W/CC	0.7412	1	10	2.5	0.6080	1	11	2.0	-18.0%	0	1	-18.6%		
137	CARDIAC CONGENITAL & VALVULAR DISORDERS AGE >17 W/O CC	0.7581	1	7	1.8	1.3828	1	29	2.2	82.4%	0	22	24.0%		
138	CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W/CC	0.8866	1	14	3.3	0.8300	1	30	3.3	4.9%	0	16	-1.0%		
139	CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W/O CC	0.9432	1	8	2.2	0.6046	1	18	2.4	-6.0%	0	10	6.9%		
140	ANGINA PECTORIS	0.8099	1	9	2.8	0.7859	1	18	2.7	-3.0%	0	9	-2.2%		
141	SYNCOPE & COLLAPSE W/CC	0.6800	1	13	3.0	0.6785	1	23	3.0	-0.2%	0	10	-0.6%		
142	SYNCOPE & COLLAPSE W/O CC	0.3358	1	8	2.2	0.5384	1	16	2.3	60.3%	0	8	4.3%		
143	CHEST PAIN	0.6394	1	6	1.9	0.5914	1	12	2.1	-7.5%	0	6	8.3%		
144	OTHER CIRCULATORY DIAGNOSES WITH CC	1.3249	1	21	4.6	1.4044	1	33	4.2	6.0%	0	12	-9.1%		
145	OTHER CIRCULATORY DIAGNOSES W/O CC	0.8308	1	11	2.6	0.8652	1	25	2.6	4.1%	0	14	1.9%		
146	RECTAL RESECTION W/CC	3.2885	6	31	14.9	2.7840	3	34	11.1	-15.3%	-3	3	-24.1%		
147	RECTAL RESECTION W/O CC	2.3506	6	27	12.4	1.7057	2	28	8.1	-27.4%	-4	1	-34.9%		
148	MAJOR SMALL & LARGE BOWEL PROCEDURES W/CC	3.5614	6	30	13.9	3.5149	2	40	11.4	-1.3%	-4	10	-17.9%		
149	MAJOR SMALL & LARGE BOWEL PROCEDURES W/O CC	2.0799	4	19	8.7	1.9086	1	37	8.0	-8.2%	-3	18	-8.5%		
150	PERITONEAL ADHESIOSIS W/CC	2.3009	5	28	11.0	2.7060	1	38	9.1	17.6%	-4	12	-17.0%		
151	PERITONEAL ADHESIOSIS W/O CC	1.5484	2	20	5.6	1.2623	1	34	5.6	-18.1%	-1	14	-0.2%		
152	MINOR SMALL & LARGE BOWEL PROCEDURES W/CC	2.2572	1	17	2.3	2.0875	1	37	8.2	-8.4%	0	20	280.6%		
153	MINOR SMALL & LARGE BOWEL PROCEDURE W/O CC	1.3369	1	9	1.2	1.1429	1	28	5.4	-14.7%	0	25	332.4%		
154	STOMACH, ESOPHAGEAL & DUODENAL PROCEDURES AGE >17 W/CC	3.4336	4	29	12.8	3.6389	1	38	10.0	5.3%	-3	9	-20.4%		
155	STOMACH, ESOPHAGEAL & DUODENAL PROCEDURES AGE >17 W/O CC	2.0912	2	23	6.6	1.7915	1	31	6.9	-14.3%	-1	8	5.0%		
156	STOMACH, ESOPHAGEAL & DUODENAL PROCEDURES AGE 0-17	1.0770	2	11	4.4	1.2797	1	33	4.8	18.8%	-1	22	5.5%		
157	ANAL AND STOMAL PROCEDURES W/CC	0.8617	1	13	2.9	0.9030	1	27	3.5	-8.0%	0	14	19.0%		
158	ANAL AND STOMAL PROCEDURES W/O CC	0.8166	1	7	2.4	0.5648	0	12	2.2	-8.4%	0	5	-8.2%		
159	HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL AGE >17 W/CC	1.2807	2	18	4.7	1.1940	1	33	4.1	-5.3%	-1	15	-12.0%		
160	HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL AGE >17 W/O CC	0.8122	1	8	2.6	0.7927	1	18	2.8	-2.4%	0	10	8.9%		
161	INGUINAL & FEMORAL HERNIA PROCEDURES AGE >17 W/CC	0.8475	1	9	3.0	0.6998	1	14	2.1	-17.5%	0	5	-30.0%		
162	INGUINAL & FEMORAL HERNIA PROCEDURES AGE >17 W/O CC	0.9421	1	6	2.2	0.6294	1	7	1.8	-2.3%	0	1	-27.0%		
163	HERNIA PROCEDURES AGE 0-17	0.4304	1	2	1.2	0.4306	1	5	1.3	4.7%	0	3	6.0%		
164	APPENDECTOMY W/COMPLICATED PRINCIPAL DIAG W/CC	2.3864	5	19	9.7	2.1141	1	37	8.5	-11.4%	-4	18	-12.9%		
165	APPENDECTOMY W/COMPLICATED PRINCIPAL DIAG W/O CC	1.2584	3	15	6.4	1.1990	1	24	5.1	-5.1%	-2	9	-19.6%		

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EXHIBIT 3-1: VERSION 4 CASE WEIGHTS WITH DIRECT CARE OUTLIER CRITERIA VERSUS VERSION 8 WEIGHTS WITH CHAMPUS OUTLIER CRITERIA  
(Continued)

DRG	Description	VERSION 4 WEIGHTS WITH D&O OUTLIER CRITERIA					VERSION 8 WEIGHTS WITH CHAMPUS OUTLIER CRITERIA					Percentage Difference Case Weight	Absolute Difference Low Trim Point	Absolute Difference High Trim Point	Percentage Difference GLOS
		Case Weight	Low Trim Point	High Trim Point	GLOS	Case Weight	Low Trim Point	High Trim Point	GLOS						
166	APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W/O CC	1.2428	2	13	4.8	1.0452	1	19	4.1	-15.9%	-1	6	-15.3%		
167	APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W/O CC	0.6898	2	6	3.2	0.7118	1	10	2.9	1.7%	-1	4	-10.6%		
168	MOUTH PROCEDURES W/O CC	1.8458	2	22	5.6	0.9555	1	32	3.1	-48.2%	-1	10	-44.7%		
169	MOUTH PROCEDURES W/O CC	0.9303	1	9	2.9	0.6523	1	15	1.8	-29.9%	0	6	-36.9%		
170	OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W/O CC	2.9384	2	23	7.0	2.8657	1	37	6.4	-2.5%	-1	14	-20.7%		
171	OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W/O CC	1.2247	1	12	2.9	1.0559	1	32	3.8	-13.8%	0	20	32.1%		
172	DIGESTIVE MALIGNANCY W/O CC	1.4151	1	21	4.1	1.8335	1	35	6.3	29.6%	0	14	52.9%		
173	DIGESTIVE MALIGNANCY W/O CC	1.0248	1	8	1.8	1.1363	1	33	4.6	156.5%	0	25	156.5%		
174	G.I. HEMORRHAGE W/O CC	1.1540	1	14	3.5	1.0641	1	25	4.2	-7.8%	0	11	18.6%		
175	G.I. HEMORRHAGE W/O CC	0.7029	1	6	1.9	0.6538	1	18	3.1	-7.0%	0	12	62.1%		
176	COMPLICATED PEPTIC ULCER	0.9471	1	7	1.7	1.0141	1	33	4.7	7.1%	0	26	164.1%		
177	UNCOMPLICATED PEPTIC ULCER W/O CC	0.8815	1	11	2.5	0.8330	1	24	3.9	-5.5%	0	13	55.8%		
178	UNCOMPLICATED PEPTIC ULCER W/O CC	0.6283	1	4	1.5	0.5683	1	20	3.0	-4.5%	0	16	102.3%		
179	INFLAMMATORY BOWEL DISEASE	1.0332	1	19	2.7	1.2394	1	34	5.7	20.0%	0	15	107.5%		
180	G.I. OBSTRUCTION W/O CC	1.0272	1	16	3.9	1.0375	1	33	4.8	1.0%	0	17	22.1%		
181	G.I. OBSTRUCTION W/O CC	0.5976	1	10	2.9	0.5908	1	25	3.1	-1.1%	0	15	7.1%		
182	ESOPHAGITIS, GASTROENT, & MISC DIGEST DISORDERS AGE >17 W/O CC	0.7497	1	9	2.2	0.7183	1	28	3.4	-4.2%	0	17	55.9%		
183	ESOPHAGITIS, GASTROENT, & MISC DIGEST DISORDERS AGE >17 W/O CC	0.5574	1	5	1.7	0.5362	1	19	2.7	-3.8%	0	14	62.6%		
184	ESOPHAGITIS, GASTROENT, & MISC DIGEST DISORDERS AGE 0-17	0.3297	1	4	1.7	0.3535	1	14	2.3	7.2%	0	10	35.2%		
185	DENTAL & ORAL DIS EXCEPT EXTRACTIONS & RESTORATIONS, AGE >17	0.8697	1	10	2.2	0.7433	1	30	3.1	-17.4%	0	20	40.5%		
186	DENTAL & ORAL DIS EXCEPT EXTRACTIONS & RESTORATIONS, AGE 0-17	0.4184	1	3	1.4	0.4058	1	14	2.4	-3.0%	0	11	72.4%		
187	DENTAL EXTRACTIONS & RESTORATIONS	0.4942	1	2	1.2	0.6438	1	11	1.7	30.3%	0	9	39.1%		
188	OTHER DIGESTIVE SYSTEM DIAGNOSES AGE >17 W/O CC	1.0015	1	6	1.6	0.9747	1	33	4.1	-2.7%	0	27	153.7%		
189	OTHER DIGESTIVE SYSTEM DIAGNOSES AGE >17 W/O CC	0.6098	1	2	1.2	0.5002	1	23	2.3	-18.0%	0	21	93.6%		
190	OTHER DIGESTIVE SYSTEM DIAGNOSES AGE 0-17	0.4015	1	4	1.4	0.3611	1	12	1.8	-2.6%	0	8	28.1%		
191	PANCREAS, LIVER & SHUNT PROCEDURES W/O CC	5.0848	4	34	17.8	5.1119	1	42	13.1	0.5%	-3	8	-26.5%		
192	PANCREAS, LIVER & SHUNT PROCEDURES W/O CC	5.2855	3	30	13.1	2.9142	1	39	10.3	-44.7%	-2	9	-21.1%		
193	BILIARY TRACT PROC EXCEPT ONLY TOT CHOLECYST W OR W/O C.D.E. W	3.3429	3	28	11.2	3.3941	1	41	12.0	1.5%	-2	13	7.2%		
194	BILIARY TRACT PROC EXCEPT ONLY TOT CHOLECYST W OR W/O C.D.E. W	2.0462	1	21	4.9	1.7802	1	36	7.0	-14.2%	0	15	43.8%		
195	TOTAL CHOLECYSTECTOMY W/O C.D.E. W/O CC	2.0491	5	22	10.1	1.8708	1	32	7.8	-8.7%	-4	10	-22.9%		
196	TOTAL CHOLECYSTECTOMY W/O C.D.E. W/O CC	1.4877	4	17	8.3	1.4161	2	20	6.7	-5.4%	-2	3	-19.5%		
197	TOTAL CHOLECYSTECTOMY W/O C.D.E. W/O CC	1.4689	3	14	6.2	1.5080	1	25	6.1	2.7%	-2	11	-2.4%		
198	TOTAL CHOLECYSTECTOMY W/O C.D.E. W/O CC	1.0687	3	8	4.9	0.9790	1	15	4.4	-10.9%	-2	7	-10.4%		
199	HEPATOBIILIARY DIAGNOSTIC PROCEDURE FOR MALIGNANCY	1.9111	4	33	16.0	2.3785	1	37	8.6	24.4%	-3	4	-46.3%		
200	HEPATOBIILIARY DIAGNOSTIC PROCEDURE FOR NON-MALIGNANCY	2.4732	1	22	5.0	1.9349	1	34	5.9	-21.8%	0	12	17.2%		
201	OTHER HEPATOBIILIARY OR PANCREAS O.R. PROCEDURES	2.7311	1	21	4.3	2.6187	1	35	6.1	-4.1%	0	14	41.4%		
202	CHRONIC & ALCOHOLIC HEPATITIS	1.3853	1	22	5.5	1.7418	1	35	6.5	25.7%	0	13	17.2%		
203	MALIGNANCY OF HEPATOBIILIARY SYSTEM OR PANCREAS	1.2989	1	22	5.0	1.3748	1	34	5.3	5.8%	0	12	5.0%		
204	DISORDERS OF PANCREAS EXCEPT MALIGNANCY	1.0126	2	19	4.9	1.1785	1	34	5.3	16.2%	-1	15	8.6%		
205	DISORDERS OF LIVER EXC MALIGN, CIRRH, ALC HEPA W/O CC	1.7568	1	22	5.0	1.6793	1	34	5.4	-4.5%	0	12	7.6%		
206	DISORDERS OF THE BILIARY TRACT W/O CC	0.7418	1	13	2.8	0.5898	1	31	2.5	-20.6%	0	18	-10.1%		
207	DISORDERS OF THE BILIARY TRACT W/O CC	0.8982	1	16	3.8	1.0638	1	33	4.2	13.3%	0	17	11.4%		
208	DISORDERS OF THE BILIARY TRACT W/O CC	0.6001	1	9	2.3	0.6209	1	21	2.6	3.5%	0	12	15.4%		
209	MAJOR JOINT & LIMB REATTACHMENT PROCEDURES	2.9843	8	29	14.9	2.9407	2	28	9.1	-1.6%	-6	-1	-38.9%		
210	HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT AGE >17 W/O CC	3.2031	6	34	17.1	2.8268	1	39	10.3	-18.0%	-5	5	-39.6%		
211	HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT AGE >17 W/O CC	1.9295	3	26	10.0	1.8441	1	36	7.8	-4.3%	-2	10	-22.0%		
212	HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT AGE 0-17	1.4129	2	23	6.1	1.5130	1	33	4.8	7.1%	-1	10	-24.4%		
213	AMPUTATIONS FOR MUSCULOSKELETAL SYSTEM & CONN TISSUE DISORDERS	1.7263	1	27	10.2	2.2234	1	37	8.5	28.6%	0	10	-18.4%		
214	BACK & NECK PROCEDURES W/O CC	2.4274	4	30	13.4	1.9361	1	35	6.6	-20.2%	-3	5	-50.6%		
215	BACK & NECK PROCEDURES W/O CC	1.5126	3	24	8.4	1.2615	1	28	4.8	-16.6%	-2	2	-42.6%		
216	BIOPSIES OF MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE	1.3069	1	21	4.3	1.7244	1	33	4.7	31.7%	0	12	8.9%		
217	WOUND DEBRID & SKIN GRAFT EXC HAND, FOR MUSCULOSKELETAL & CONN. TISS DIS	2.0273	1	23	6.7	2.8197	1	36	7.1	29.2%	0	13	6.6%		
218	LOWER EXTREM & HUMER PROC EXCEPT HIP, FOOT, FEMUR AGE >17 W/O CC	1.8666	3	26	9.0	1.6089	1	34	5.8	-13.8%	-2	8	-38.0%		
219	LOWER EXTREM & HUMER PROC EXCEPT HIP, FOOT, FEMUR AGE >17 W/O CC	1.0655	2	16	4.2	1.0345	1	21	3.6	-4.7%	-1	5	-14.9%		
220	LOWER EXTREM & HUMER PROC EXCEPT HIP, FOOT, FEMUR AGE 0-17	0.8099	1	8	2.4	0.7933	1	18	2.3	-2.0%	0	10	-6.9%		

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EXHIBIT 3-1: VERSION 4 CASE WEIGHTS WITH DIRECT CARE OUTLIER CRITERIA VERSUS VERSION 8 WEIGHTS WITH CHAMPUS OUTLIER CRITERIA  
(Continued)

DRG	Description	VERSION 4 WEIGHTS WITH DD OUTLIER CRITERIA					VERSION 8 WEIGHTS WITH CHAMPUS OUTLIER CRITERIA					Percentage Difference Case Weight	Absolute Difference Low Trim Point	Absolute Difference High Trim Point	Percentage Difference GLOS
		Case Weight	Low Trim Point	High Trim Point	GLOS	Case Weight	Low Trim Point	High Trim Point	GLOS						
221	KNEE PROCEDURES W CC	1.9419	2	23	6.1	1.5331	1	33	4.4	-21.1%	-1	10	-27.0%		
222	KNEE PROCEDURES W/O CC	0.8425	1	11	2.5	0.9868	1	14	2.5	17.1%	0	3	-1.7%		
223	MAJOR SHOULDER/ELBOW PROC OR OTHER UPPER EXTREMITY PROC WITH CC	1.1151	1	13	3.6	0.8830	1	19	2.6	-20.8%	0	6	-27.9%		
224	SHOULDER/ELBOW OR FOREARM PROC EXC MAJOR JOINT PROC; W/O CC	0.7700	1	10	3.2	0.7380	1	11	2.0	-4.2%	0	1	-37.1%		
225	FOOT PROCEDURES	0.7177	1	6	2.0	0.7363	1	13	2.1	2.6%	0	7	3.9%		
228	SOFT TISSUE PROCEDURES W CC	1.0876	1	20	3.9	1.2258	1	32	3.9	12.7%	0	12	-0.3%		
227	SOFT TISSUE PROCEDURES W/O CC	0.6390	1	6	2.2	0.7549	1	23	2.3	4.3%	0	9	4.0%		
228	MAJOR THUMB OR JOINT PROC OR OTHER HAND OR WRIST PROC WITH CC	0.8723	1	11	2.6	0.7822	1	12	2.0	-9.2%	0	1	-24.2%		
228	HAND OR WRIST PROC, EXCEPT MAJOR JOINT PROC; W/O CC	0.6455	1	4	1.8	0.6084	1	4	1.6	-5.7%	0	4	1.1%		
230	LOCAL EXCISION & REMOVAL OF INT FIX DEVICES OF HIP & FEMUR	0.7155	1	10	2.7	0.6759	1	14	2.0	-5.5%	0	4	-24.9%		
231	LOCAL EXCISION & REMOVAL OF INT FIX DEVICES EXCEPT HIP & FEMUR	0.8753	1	7	2.0	0.9585	1	27	2.4	9.5%	0	20	19.1%		
232	ARTHROSCOPY	0.6390	1	6	1.9	0.6692	1	22	2.0	51.8%	0	16	3.2%		
233	OTHER MUSCULOSKELET SYS & CONN TISS O.R. PROC W CC	2.4202	2	26	9.2	2.6703	1	35	6.6	10.3%	-1	9	-27.9%		
234	OTHER MUSCULOSKELET SYS & CONN TISS O.R. PROC W/O CC	0.9855	1	13	2.8	1.0374	1	27	3.0	5.3%	0	14	8.2%		
238	FRACTURES OF FEMUR	1.2545	1	20	3.6	1.2218	1	36	7.5	-2.6%	0	16	110.0%		
238	FRACTURES OF HIP & PELVIS	0.9895	1	23	6.3	1.1803	1	35	6.6	18.1%	0	12	4.6%		
237	SPRAINS, STRAINS, & DISLOCATIONS OF HIP, PELVIS & THIGH	0.6421	1	17	3.1	0.5372	1	31	2.4	-16.3%	0	14	-23.2%		
238	OSTEOMYELITIS	1.6239	2	25	8.4	1.3621	1	35	7.0	-16.1%	-1	10	-16.5%		
238	PATHOLOGICAL FRACTURES & MUSCULOSKELETAL & CONN TISS MALIGNANCY	1.1907	1	22	5.6	1.5201	1	35	6.8	27.7%	0	13	21.6%		
240	CONNECTIVE TISSUE DISORDERS W CC	1.4885	1	22	5.7	1.5434	1	34	5.6	3.7%	0	12	-1.1%		
241	CONNECTIVE TISSUE DISORDERS W/O CC	0.8490	1	18	3.2	0.7234	1	32	3.6	-14.8%	0	14	11.7%		
242	SEPTIC ARTHRITIS	1.2112	2	22	5.9	1.4897	1	35	6.5	21.3%	-1	13	10.3%		
243	MEDICAL BACK PROBLEMS	0.7425	1	19	3.5	0.6259	1	32	3.3	-15.7%	0	13	-9.0%		
244	BONE DISEASES & SEPTIC ARTHROPATHIES W CC	0.8232	1	20	3.8	1.3405	1	33	4.4	62.8%	0	13	16.0%		
244	BONE DISEASES & SEPTIC ARTHROPATHIES W/O CC	0.6544	1	17	2.7	0.6566	1	32	3.9	46.0%	0	15	34.7%		
248	NON-SPECIFIC ARTHROPATHIES	0.5751	1	19	3.7	0.6490	1	27	4.1	12.3%	0	8	10.6%		
248	SIGNS & SYMPTOMS OF MUSCULOSKELETAL SYSTEM & CONN TISSUE	0.8729	1	15	2.6	0.6295	1	32	3.3	-6.4%	0	17	25.7%		
248	TENDONITIS, MYOSITIS & BURSTITIS	0.6042	1	14	2.8	0.6941	1	24	2.7	-3.3%	0	10	-2.5%		
248	AFTERCARE, MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE	0.7824	1	6	1.6	0.6285	1	32	3.6	4.3%	0	26	130.1%		
250	FX SPRLN, STRN & DISL OF FOREARM, HAND, FOOT AGE >17 W CC	0.7355	1	14	2.4	0.8391	1	31	2.8	14.1%	0	17	15.2%		
251	FX SPRLN, STRN & DISL OF FOREARM, HAND, FOOT AGE >17 W/O CC	0.4560	1	7	1.8	0.5148	1	12	1.7	13.1%	0	5	-6.6%		
252	FX SPRLN, STRN & DISL OF FOREARM, HAND, FOOT AGE 0-17	0.3186	1	2	1.2	0.3638	1	5	1.3	14.2%	0	3	11.3%		
253	FX SPRLN, STRN & DISL OF UPARM, LOWLEG EX FOOT AGE >17 W CC	0.8168	1	20	3.3	0.9303	1	33	4.5	13.6%	0	13	35.1%		
254	FX SPRLN, STRN & DISL OF UPARM, LOWLEG EX FOOT AGE >17 W/O CC	0.4732	1	8	1.9	0.5219	1	20	2.6	10.3%	0	12	37.0%		
255	FX SPRLN, STRN & DISL OF UPARM, LOWLEG EX FOOT AGE 0-17	0.3709	1	3	1.4	0.4191	1	14	1.8	13.0%	0	11	25.4%		
258	OTHER MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE DIAGNOSES	0.6808	1	11	2.2	0.6718	1	31	2.6	1.7%	0	20	19.2%		
257	TOTAL MASTECTOMY FOR MALIGNANCY W CC	1.2068	4	20	8.7	1.0889	1	18	4.1	-10.0%	-3	-2	-52.8%		
258	TOTAL MASTECTOMY FOR MALIGNANCY W/O CC	1.0090	4	15	6.9	0.8870	1	14	3.4	-11.8%	-3	-1	-51.0%		
258	SUBTOTAL MASTECTOMY FOR MALIGNANCY W CC	1.1880	1	1	2.3	1.3701	1	3.5	3.5	15.3%	0	21	53.4%		
260	SUBTOTAL MASTECTOMY FOR MALIGNANCY W/O CC	0.7876	1	5	1.6	0.7378	1	10	2.2	-6.3%	0	5	38.1%		
261	BREAST PROC FOR NON-MALIGNANCY EXCEPT BIOPSY & LOCAL EXCISION	0.8072	1	9	2.7	0.9349	1	10	2.1	3.1%	0	1	-23.6%		
262	BREAST BIOPSY & LOCAL EXCISION FOR NON-MALIGNANCY	0.5166	1	2	1.2	0.5475	1	9	1.7	6.0%	0	7	45.2%		
263	SKIN GRAFT & OR DEBRID FOR SKIN ULCER OR CELLULITIS W CC	2.9552	4	32	15.3	3.0170	1	40	11.5	2.1%	-3	8	-24.8%		
264	SKIN GRAFT & OR DEBRID FOR SKIN ULCER OR CELLULITIS W/O CC	1.8731	2	23	6.9	1.8895	1	35	6.8	0.8%	0	12	-1.5%		
265	SKIN GRAFT AND/OR DEBRID EXCEPT FOR SKIN ULCER OR CELLULITIS W/	1.7366	2	24	7.5	1.7899	1	34	5.2	1.9%	-1	10	-30.6%		
266	SKIN GRAFT AND/OR DEBRID EXCEPT FOR SKIN ULCER OR CELLULITIS W/	0.6241	1	18	3.4	0.9002	1	26	2.8	2.8%	0	6	-17.6%		
267	PERIANAL & PHLOIDAL PROCEDURES	0.4813	1	9	2.5	0.5309	1	10	1.6	8.1%	0	1	-36.9%		
268	SKIN, SUBCUTANEOUS TISSUE & BREAST PLASTIC PROCEDURES	0.7085	1	7	2.1	0.7786	1	12	1.6	9.9%	0	5	-25.0%		
270	OTHER SKIN, SUBCUT TISS & BREAST O.R. PROC W CC	1.5437	1	13	2.2	1.8459	1	34	5.7	19.6%	0	21	154.2%		
270	OTHER SKIN, SUBCUT TISS & BREAST O.R. PROC W/O CC	0.7451	1	4	1.5	0.7323	1	22	2.3	-1.7%	0	18	96.5%		
271	SKIN ULCERS	1.1256	2	23	6.7	1.4933	1	36	7.9	32.6%	-1	13	17.6%		
272	MAJOR SKIN DISORDERS W CC	1.1249	2	22	5.1	1.3829	1	34	5.1	22.9%	-1	12	-0.2%		
273	MAJOR SKIN DISORDERS W/O CC	0.7077	1	18	3.3	0.7546	1	33	4.2	6.6%	0	15	24.0%		
274	MALIGNANT BREAST DISORDERS W CC	1.2687	1	21	4.3	2.0838	1	35	6.6	64.5%	0	14	54.0%		
275	MALIGNANT BREAST DISORDERS W/O CC	0.7625	1	5	1.8	1.6288	1	32	3.6	113.4%	0	27	129.8%		

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EXHIBIT 3-1: VERSION 4 CASE WEIGHTS WITH DIRECT CARE OUTLIER CRITERIA VERSUS VERSION 8 WEIGHTS WITH CHAMPUS OUTLIER CRITERIA  
(Continued)

DRG	Description	VERSION 4 WEIGHTS WITH DOD OUTLIER CRITERIA					VERSION 8 WEIGHTS WITH CHAMPUS OUTLIER CRITERIA						
		Case Weight	Low Trim Point	High Trim Point	GLOS	Case Weight	Low Trim Point	High Trim Point	GLOS	Percentage Difference Case Weight	Absolute Difference Low Trim Point	Absolute Difference High Trim Point	Percentage Difference GLOS
276	NON-MALIGNANT BREAST DISORDERS	0.532	1	3	1.3	0.6035	1	25	2.6	30.1%	0	22	98.0%
277	CELLULITIS AGE >17 W CC	1.0255	2	15	5.1	0.9299	1	33	5.2	-9.3%	-1	18	2.8%
278	CELLULITIS AGE >17 W/O CC	0.7518	2	10	3.5	0.6602	1	25	4.1	-12.2%	-1	15	18.7%
279	CELLULITIS AGE 0-17	0.5277	1	7	2.6	0.4934	1	17	3.1	-6.5%	0	10	17.2%
280	TRAUMA TO THE SKIN, SUBCUT TISS & BREAST AGE >17 W CC	0.4130	1	10	2.3	0.7382	1	31	2.9	27.8%	0	21	27.7%
281	TRAUMA TO THE SKIN, SUBCUT TISS & BREAST AGE >17 W/O CC	0.3181	1	4	1.5	0.3787	1	10	1.6	19.1%	0	15	10.3%
282	TRAUMA TO THE SKIN, SUBCUT TISS & BREAST AGE 0-17	0.7153	1	12	2.6	0.7419	1	32	3.7	3.7%	0	20	40.5%
283	MINOR SKIN DISORDERS W CC	0.5054	1	5	1.7	0.5032	1	29	2.6	-0.4%	0	24	54.8%
284	MINOR SKIN DISORDERS W/O CC	2.3351	4	34	17.8	2.7431	1	42	13.6	17.5%	-3	8	-23.4%
285	AMPUTAT OF LOWER LIMB FOR ENDOCRINE, NUTRIT&METABOL DISORDERS	2.8093	4	28	11.8	2.1104	1	33	6.6	-24.9%	-3	5	-43.9%
286	ADRENAL & PITUITARY PROCEDURES	1.9411	3	27	10.1	2.2301	1	38	9.1	14.9%	-2	11	-9.8%
287	SKIN GRAFTS & WOUND DEBRID FOR ENDOC, NUTRIT & METAB DISORDERS	1.8201	2	21	4.9	1.7266	1	14	5.0	-5.1%	-1	7	2.0%
288	O.R. PROCEDURES FOR OBESITY	0.9714	3	15	5.7	0.8712	1	13	2.7	-10.3%	-2	2	-52.9%
289	PAPATHYROID PROCEDURES	0.7745	2	7	3.7	0.7487	1	9	2.3	-3.3%	-1	2	-38.8%
290	THYROID PROCEDURES	0.4241	1	6	2.4	0.5076	1	4	1.2	19.7%	0	2	-50.7%
291	THYROIDGLAND PROCEDURES	2.0491	2	26	9.2	3.1150	1	39	10.6	52.0%	-1	13	15.2%
292	OTHER ENDOCRINE, NUTRIT & METAB O.R. PROC W CC	1.5269	1	19	2.8	0.9387	1	29	3.5	-38.5%	0	10	27.0%
293	OTHER ENDOCRINE, NUTRIT & METAB O.R. PROC W/O CC	0.7566	2	13	4.5	0.7571	1	28	4.8	0.2%	-1	15	6.3%
294	DIABETES AGE >35	0.6385	1	13	3.7	0.5850	1	21	3.4	-8.4%	0	8	-7.4%
295	DIABETES AGE 0-35	1.0690	1	18	3.6	1.1324	1	33	4.7	6.2%	0	15	29.1%
296	NUTRITIONAL & MISC METABOLIC DISORDERS AGE >17 W CC	0.7334	1	20	3.3	0.5909	1	31	3.0	-22.3%	0	11	-9.8%
297	NUTRITIONAL & MISC METABOLIC DISORDERS AGE >17 W/O CC	0.6039	1	9	2.2	0.4416	1	20	2.6	-26.9%	0	11	17.9%
298	NUTRITIONAL & MISC METABOLIC DISORDERS AGE 0-17	1.0303	1	14	2.7	1.0326	1	33	4.5	0.2%	0	19	69.9%
299	INFORN ERRORS OF METABOLISM	1.0597	1	21	4.7	1.0508	1	32	3.9	-0.8%	0	11	-17.6%
300	ENDOCRINE DISORDERS W CC	0.6648	1	14	2.9	0.6318	1	27	2.6	-5.0%	0	13	-10.0%
301	ENDOCRINE DISORDERS W/O CC	3.7135	12	42	26.0	6.7453	3	44	15.6	81.6%	-9	2	-40.0%
302	KIDNEY TRANSPLANT	2.3414	5	30	13.6	2.5181	2	32	9.0	-7.5%	-3	2	-33.8%
303	KIDNEY, URETER & MAJOR BLADDER PROCEDURES FOR NEOPLASM	2.1561	3	26	9.2	2.0428	1	36	7.3	-5.3%	-2	10	-21.0%
304	KIDNEY, URETER & MAJOR BLADDER PROC FOR NON-NEOPL W CC	1.3649	2	23	6.7	1.2256	1	32	4.4	-10.2%	-1	9	-34.7%
305	KIDNEY, URETER & MAJOR BLADDER PROC FOR NON-NEOPL W/O CC	2.0668	3	12	5.2	1.5412	1	34	5.2	-26.5%	-2	22	-0.3%
306	PROSTATECTOMY W CC	1.0308	3	6	4.2	0.8123	1	23	3.5	-21.2%	-2	15	-16.8%
307	PROSTATECTOMY W/O CC	1.4545	2	21	5.0	1.4083	1	33	4.7	-3.2%	-1	12	-5.2%
308	MINOR BLADDER PROCEDURES W CC	1.1876	1	14	3.5	0.9558	1	26	2.9	-19.5%	0	12	-17.5%
309	MINOR BLADDER PROCEDURES W/O CC	1.0370	1	10	3.2	1.0151	1	24	3.1	-2.1%	0	14	-3.7%
310	TRANSURETHRAL PROCEDURES W CC	0.7452	1	6	2.4	0.7409	1	15	2.3	-0.6%	0	9	-3.9%
311	TRANSURETHRAL PROCEDURES W/O CC	0.7844	2	11	3.8	0.7523	1	31	2.6	-4.1%	-1	20	-32.0%
312	URETHRAL PROCEDURES, AGE >17 W CC	0.6461	1	10	2.8	0.6544	1	14	1.8	1.3%	0	4	-36.0%
313	URETHRAL PROCEDURES, AGE >17 W/O CC	0.5325	1	2	1.2	0.5581	1	10	1.5	4.8%	0	8	23.2%
314	URETHRAL PROCEDURES, AGE 0-17	2.6432	2	23	7.0	2.2738	1	35	6.4	-14.0%	-1	12	-7.9%
315	OTHER KIDNEY & URINARY TRACT O.R. PROCEDURES	1.9126	1	17	2.5	1.8648	1	34	5.7	2.7%	0	17	128.7%
316	RENAL FAILURE	0.5296	1	1	1.0	0.3499	1	21	2.2	-33.9%	0	20	114.5%
317	ADMIT FOR RENAL DIALYSIS	1.3748	1	21	4.8	1.5499	1	34	5.6	12.7%	0	13	18.4%
318	KIDNEY & URINARY TRACT NEOPLASMS W CC	0.8035	1	10	2.1	1.1482	1	32	3.5	66.7%	0	22	62.9%
319	KIDNEY & URINARY TRACT NEOPLASMS W/O CC	0.9028	2	16	4.8	0.9528	1	31	4.7	0.0%	-1	15	2.5%
320	KIDNEY & URINARY TRACT INFECTIONS AGE >17 W CC	0.6924	2	8	3.1	0.6311	1	18	3.6	-3.3%	-1	10	15.9%
321	KIDNEY & URINARY TRACT INFECTIONS AGE >17 W/O CC	0.5497	2	8	3.1	0.5008	1	19	3.5	-0.7%	-1	11	14.6%
322	KIDNEY & URINARY TRACT INFECTIONS AGE 0-17	0.8396	1	11	3.0	0.7595	1	16	2.2	-19.2%	0	5	-25.6%
323	URINARY STONES W CC, BOR ESW LITHOTRIPSY	0.5417	1	6	2.0	0.4629	1	9	1.7	-14.5%	0	3	-15.2%
324	URINARY STONES W/O CC	0.8738	1	15	3.3	1.0285	1	32	3.7	17.5%	0	17	15.6%
325	KIDNEY & URINARY TRACT SIGNS & SYMPTOMS AGE >17 W CC	0.6338	1	9	2.3	0.5236	1	21	2.5	-17.4%	0	12	8.9%
326	KIDNEY & URINARY TRACT SIGNS & SYMPTOMS AGE >17 W/O CC	0.5118	1	9	2.2	0.3980	1	11	1.9	-27.9%	0	3	-14.9%
327	KIDNEY & URINARY TRACT SIGNS & SYMPTOMS AGE 0-17	0.8042	1	6	1.7	0.6346	1	33	3.8	5.0%	0	27	120.8%
328	URETHRAL STRICTURE AGE >17 W CC	0.5086	1	8	2.0	0.4135	1	7	1.5	-18.7%	0	1	-24.8%
329	URETHRAL STRICTURE AGE >17 W/O CC	0.3009	1	2	1.1	0.2754	1	9	1.8	-8.5%	0	7	42.1%

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EXHIBIT 3-1: VERSION 4 CASE WEIGHTS WITH DIRECT CARE OUTLIER CRITERIA VERSUS VERSION 8 WEIGHTS WITH CHAMPUS OUTLIER CRITERIA  
(Continued)

DRG	Description	VERSION 4 WEIGHTS WITH DOD OUTLIER CRITERIA					VERSION 8 WEIGHTS WITH CHAMPUS OUTLIER CRITERIA					Percentage Difference Case Weight	Absolute Difference Low Trim Point	Absolute Difference High Trim Point	Percentage Difference GLOS
		Case Weight	Low Trim Point	High Trim Point	GLOS	Case Weight	Low Trim Point	High Trim Point	GLOS						
331	OTHER KIDNEY & URINARY TRACT DIAGNOSES AGE >17 W CC	1.0961	1	20	3.9	0.9348	1	32	3.8	-14.7%	0	12	-2.3%		
332	OTHER KIDNEY & URINARY TRACT DIAGNOSES AGE >17 W/O CC	0.6032	1	12	2.7	0.6318	1	29	2.8	4.7%	0	17	5.7%		
333	OTHER KIDNEY & URINARY TRACT DIAGNOSES AGE 0-17	0.5760	1	8	1.8	0.6659	1	32	3.0	50.3%	0	24	62.9%		
334	MAJOR MALE PELVIC PROCEDURES WITH CC	2.0361	6	28	12.1	2.2792	3	22	8.3	11.9%	-3	-6	-31.6%		
335	MAJOR MALE PELVIC PROCEDURES W/O CC	1.7552	6	20	10.9	1.6317	1	26	6.8	-7.0%	-5	6	-31.6%		
336	TRANSURETHRAL PROSTATECTOMY W CC	0.9604	3	8	4.8	1.0504	1	18	4.3	9.4%	-2	10	-10.6%		
337	TRANSURETHRAL PROSTATECTOMY W/O CC	0.7782	3	6	4.3	0.7266	1	10	3.3	-6.4%	-2	4	-23.9%		
338	TESTES PROCEDURES, FOR MALIGNANCY	0.7480	1	21	4.1	0.8927	1	31	2.5	19.7%	0	10	-38.7%		
339	TESTES PROCEDURES, NON-MALIGNANCY AGE >17	0.5773	1	5	2.2	0.5368	1	9	1.5	-6.7%	0	4	-31.3%		
340	TESTES PROCEDURES, NON-MALIGNANCY AGE 0-17	0.4825	1	2	1.3	0.4871	1	5	1.4	-1.1%	0	3	7.6%		
341	PENIS PROCEDURES	0.9421	1	10	2.8	0.9275	1	22	2.5	-1.5%	0	12	-8.6%		
342	CIRCUMCISION AGE >17	0.4682	1	3	1.4	0.4971	1	24	2.3	6.6%	0	21	58.7%		
343	CIRCUMCISION AGE 0-17	0.8514	1	1	1.0	0.4228	1	2	1.2	-35.1%	0	1	14.5%		
344	OTHER MALE REPRODUCTIVE SYSTEM O.R. PROCEDURES FOR MALIGNANCY	1.0783	1	22	5.8	1.4182	1	31	5.6	31.5%	0	9	-2.9%		
345	OTHER MALE REPRODUCTIVE SYSTEM O.R. PROC EXCEPT FOR MALIGNANCY	0.8772	1	11	2.9	0.5393	1	8	2.1	-38.5%	0	-3	-27.7%		
346	MALIGNANCY, MALE REPRODUCTIVE SYSTEM, W CC	1.3703	1	21	4.3	1.2738	1	33	4.5	-7.0%	0	12	5.6%		
347	MALIGNANCY, MALE REPRODUCTIVE SYSTEM, W/O CC	0.6337	1	20	3.3	1.1618	1	25	4.1	83.3%	0	5	23.5%		
348	BENIGN PROSTATIC HYPERTROPHY W CC	0.8458	1	6	1.7	0.5046	1	12	1.8	-21.9%	0	6	6.7%		
349	BENIGN PROSTATIC HYPERTROPHY W/O CC	0.5316	1	2	1.3	0.4598	1	13	1.9	-13.5%	0	11	48.7%		
350	INFLAMMATION OF THE MALE REPRODUCTIVE SYSTEM	0.8710	1	11	3.0	0.6208	1	22	3.5	-7.5%	0	11	17.5%		
351	STERILIZATION, MALE	0.3587	1	1	1.0	0.3283	1	5	1.3	-8.5%	0	4	30.0%		
352	OTHER MALE REPRODUCTIVE SYSTEM DIAGNOSES	0.5645	1	5	1.7	0.5722	1	22	2.1	1.4%	0	17	21.2%		
353	PELVIC EVISCERATION, RADICAL HYSTERECTOMY & VULVECTOMY	1.8489	5	32	15.7	2.2384	1	27	8.6	14.9%	-4	5	-45.1%		
354	UTERINE ADENEXA PROC FOR NON-OVARIAN/ADENEXA MALIGN W CC	1.5556	4	27	10.4	1.4736	1	23	6.1	-5.3%	-3	-4	-41.1%		
355	UTERINE ADENEXA PROC FOR NON-OVARIAN/ADENEXA MALIGN W/O CC	1.0703	3	14	6.0	0.9082	1	12	4.2	-15.1%	-2	-2	-30.2%		
356	FEMALE REPRODUCTIVE SYSTEM RECONSTRUCTIVE PROCEDURES	0.8374	3	9	4.9	0.8425	1	34	3.9	-10.1%	-2	5	-20.2%		
357	UTERUS & ADENEXA PROC FOR OVARIAN OR ADENEXA MALIGNANCY	2.0570	1	27	10.6	1.8611	1	35	7.1	-9.5%	-2	8	-33.1%		
358	UTERUS & ADENEXA PROC FOR NON-MALIGNANCY W CC	1.3084	4	11	6.5	1.1552	1	14	4.7	-11.6%	-3	3	-27.3%		
359	UTERUS & ADENEXA PROC FOR NON-MALIGNANCY W/O CC	0.8828	2	10	4.1	0.9099	1	11	3.9	-7.4%	-1	1	-5.7%		
360	VAGINA, CERVIX & VULVA PROCEDURES	0.6131	1	3	1.4	0.8866	1	20	2.5	12.0%	0	17	77.2%		
361	LAPAROSCOPY & INCISIONAL TUBAL INTERRUPTION	0.6884	1	3	1.5	0.7317	1	21	2.4	6.1%	0	18	65.1%		
362	ENDOSCOPIC TUBAL INTERRUPTION	0.3483	1	2	1.2	0.3886	1	5	1.4	11.6%	0	3	13.2%		
363	DAC, CONIZATION & RADIO-IMPLANT, FOR MALIGNANCY	0.6366	1	5	1.8	0.6316	1	14	2.4	-0.8%	0	9	34.6%		
364	DAC, CONIZATION EXCEPT FOR MALIGNANCY	0.4883	1	2	1.3	0.4678	1	10	1.6	-3.8%	0	8	27.5%		
365	OTHER FEMALE REPRODUCTIVE SYSTEM O.R. PROCEDURES	1.2070	1	15	3.9	1.2792	1	33	4.7	6.0%	0	18	21.5%		
366	MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W CC	1.1886	1	21	5.0	1.4437	1	35	6.1	20.4%	0	14	22.2%		
367	MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W/O CC	0.8086	1	11	2.4	0.8564	1	31	2.8	40.8%	0	20	17.4%		
368	INFECTIONS, FEMALE REPRODUCTIVE SYSTEM	0.6357	2	7	3.7	0.5769	1	17	3.3	-9.2%	-1	10	-11.0%		
369	MENSTRUAL & OTHER FEMALE REPRODUCTIVE SYSTEM DISORDERS	0.4241	1	4	1.5	0.4701	1	15	2.2	10.8%	0	11	44.2%		
370	CEASAREAN SECTION WITH C. C.	1.0878	3	11	5.4	0.9633	1	14	4.6	-11.4%	-2	3	-14.1%		
371	CEASAREAN SECTION W/O C. C.	0.8012	3	6	4.3	0.7884	1	8	3.9	-14.6%	-2	2	-8.7%		
372	VAGINAL DELIVERY W COMPLICATING DIAGNOSES	0.9102	2	7	3.3	0.7779	1	14	2.8	-28.7%	-1	7	-15.5%		
373	VAGINAL DELIVERY W/O COMPLICATING DIAGNOSES	0.4688	2	4	2.6	0.3916	1	6	2.0	-16.1%	-1	2	-23.5%		
374	VAGINAL DELIVERY W STERILIZATION AND/OR DAC	0.8730	2	4	2.8	0.6281	1	6	2.4	-6.7%	-1	2	-13.1%		
375	VAGINAL DELIVERY WITH O.R. PROC EXCEPT STERIL &/OR D-C	0.7357	2	7	3.1	0.6221	1	15	2.5	-15.4%	-1	8	-20.1%		
376	POSTPARTUM & POST ABORTION DIAGNOSES W/O O.R. PROCEDURE	0.4682	1	7	2.6	0.4708	1	15	2.5	0.3%	0	8	-5.3%		
377	POSTPARTUM AND POST ABORTION DIAGNOSES W/O R. PROCEDURE	0.8218	1	6	1.9	0.7002	1	19	2.1	12.6%	0	13	11.6%		
378	ECTOPIC PREGNANCY	0.8008	2	7	3.3	0.7821	1	11	3.1	-3.4%	-1	4	-7.0%		
379	THREATENED ABORTION	0.3214	1	5	1.7	0.3686	1	19	2.1	14.1%	0	14	23.6%		
380	ABORTION W/O DAC	0.3211	1	3	1.4	0.3207	1	6	1.4	-0.1%	0	3	-1.4%		
381	ABORTION W DAC, ASPIRATION CURETTAGE OR HYSTEROTOMY	0.3682	1	1	1.1	0.4018	1	4	1.2	10.0%	0	3	8.2%		
382	FALSE LABOR	0.1478	1	2	1.2	0.1700	1	5	1.2	14.9%	0	3	1.9%		
383	OTHER ANTEPARTUM DIAGNOSES W MEDICAL COMPLICATIONS	0.3560	1	6	2.0	0.3524	1	16	2.5	-1.0%	0	10	27.6%		
384	OTHER ANTEPARTUM DIAGNOSES W/O MEDICAL COMPLICATIONS	0.3615	1	2	1.2	0.3282	1	17	1.9	-9.2%	0	15	58.2%		
385	NO LONGER VALID	0.8322	1	20	3.7	---	---	---	---	---	---	---	---		

-Continued-

EXHIBIT 3-1: VERSION 4 CASE WEIGHTS WITH DIRECT CARE OUTLIER CRITERIA VERSUS VERSION 8 WEIGHTS WITH CHAMPUS OUTLIER CRITERIA  
(Continued)

DRG	Description	VERSION 4 WEIGHTS WITH DIRECT CARE OUTLIER CRITERIA					VERSION 8 WEIGHTS WITH CHAMPUS OUTLIER CRITERIA													
		Case Weight	Low Trim Point	High Trim Point	GLOS	Percentage Difference	Case Weight	Low Trim Point	High Trim Point	GLOS	Percentage Difference									
366	NO LONGER VALID	3.3194	2	29	12.3															
367	NO LONGER VALID	1.6986	2	24	8.0															
368	NO LONGER VALID	0.7984	2	10	3.5															
369	NO LONGER VALID	0.5024	2	9	3.8															
370	NO LONGER VALID	0.2257	2	5	2.6															
391	NORMAL NEWBORNS	0.1390	2	4	2.4															
392	SPLENECTOMY AGE >17	3.0019	4	28	9.8															
393	SPLENECTOMY AGE 0-17	1.8160	4	11	6.3															
394	OTHER O.R. PROCEDURES OF THE BLOOD AND BLOOD FORMING ORGANS	1.1131	1	8	2.0															
396	RED BLOOD CELL DISORDERS AGE >17	0.9470	1	12	3.2															
398	RED BLOOD CELL DISORDERS AGE 0-17	0.6575	1	8	2.1															
397	COAGULATION DISORDERS	0.7945	1	13	2.9															
398	PETICULOENDOTHELIAL & IMMUNITY DISORDERS W CC	1.3348	1	20	3.2															
399	PETICULOENDOTHELIAL & IMMUNITY DISORDERS W/O CC	0.7116	1	8	1.9															
400	LYMPHOMA & LEUKEMIA W MAJOR O.R. PROCEDURE	3.6784	5	36	20.0															
401	LYMPHOMA & NON-ACUTE LEUKEMIA W OTHER O.R. PROC W CC	2.0807	2	27	10.6															
402	LYMPHOMA & NON-ACUTE LEUKEMIA W OTHER O.R. PROCEDURE W/O CC	1.2718	1	21	4.1															
403	LYMPHOMA & NON-ACUTE LEUKEMIA W CC	1.7645	1	22	5.5															
404	LYMPHOMA & NON-ACUTE LEUKEMIA W/O CC	1.0364	1	19	2.8															
405	ACUTE LEUKEMIA W MAJOR O.R. PROCEDURE AGE 0-17	1.8238	1	19	2.8															
406	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W MAJ O.R. PROC W CC	2.7904	4	36	19.6															
407	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W MAJ O.R. PROC W/O CC	1.3771	1	23	6.9															
408	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W MAJ O.R. PROC W/O CC	1.0734	1	20	3.6															
408	RADIO THERAPY	0.8993	1	24	8.0															
410	CHEMOTHERAPY	0.8178	1	8	2.3															
411	HISTORY OF MALIGNANCY W/O ENDOSCOPY	1.0036	1	6	1.8															
412	HISTORY OF MALIGNANCY W ENDOSCOPY	0.3657	1	1	1.1															
413	OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W CC	1.2413	1	23	6.1															
414	OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W/O CC	0.9064	1	20	3.1															
415	O.R. PROCEDURE FOR INFECTIOUS & PARASITIC DISEASES	3.2853	2	23	8.9															
416	SEPTICEMIA AGE >17	1.9711	2	23	6.6															
417	SEPTICEMIA AGE 0-17	0.7178	2	9	3.1															
418	POSTOPERATIVE & POST-TRAUMATIC INFECTIONS	1.1579	2	15	4.1															
418	FEVER OF UNKNOWN ORIGIN AGE >17 W CC	1.1611	2	21	4.7															
420	FEVER OF UNKNOWN ORIGIN AGE >17 W/O CC	0.9780	1	16	3.8															
421	VIRAL ILLNESS AGE >17	0.5359	1	10	2.7															
422	VIRAL ILLNESS & FEVER OF UNKNOWN ORIGIN AGE 0-17	0.4118	1	6	2.2															
423	OTHER INFECTIOUS & PARASITIC DISEASES DIAGNOSES	1.0385	1	21	4.5															
424	O.R. PROCEDURE W PRINCIPAL DIAGNOSES OF MENTAL ILLNESS	2.3866	1	23	6.5															
425	ACUTE ADULT REACT & DISTURBANCES OF PSYCHOSOCIAL DYSFUNCTION	0.6573	1	20	3.6															
426	DEPRESSIVE NEUROSES	0.8902	1	21	4.9															
427	NEUROSES EXCEPT DEPRESSIVE	0.7574	1	21	4.3															
428	DISORDERS OF PERSONALITY & IMPULSE CONTROL	0.9188	1	21	4.6															
428	ORGANIC DISTURBANCES & MENTAL RETARDATION	0.9086	1	24	7.9															
430	PSYCHOSES	1.1613	1	27	10.4															
431	CHILDHOOD MENTAL DISORDERS	0.9168	1	16	2.8															
432	OTHER MENTAL DISORDERS DIAGNOSES	0.7820	1	21	4.6															
433	ALCOHOLIC ABUSE OR DEPENDENCE, LEFT AMA	0.4216	1	20	3.2															
434	ALCOHOLIC ABUSE OR DEPEND, DETOX OR OTH SYMPT TREAT W CC	0.7658	1	20	3.6															
435	NO LONGER VALID	0.8810	1	28	9.1															
436	ALCOHOLIC DEPENDENCE W REHABILITATION THERAPY	1.0972	14	47	30.1															
437	ALCOHOLIC DEPENDENCE, COMBINED REHAB & DETOX THERAPY	1.4325	14	47	30.2															
438	NO LONGER VALID																			
439	SKIN GRAFTS FOR INJURIES	1.4983	2	28	9.7															
440	WOUND DEBRIDEMENTS FOR INJURIES	1.5195	1	22	5.3															

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EXHIBIT 3-1: VERSION 4 CASE WEIGHTS WITH DIRECT CARE OUTLIER CRITERIA VERSUS VERSION 8 WEIGHTS WITH CHAMPUS OUTLIER CRITERIA  
(Continued)

DRG	Description	VERSION 4 WEIGHTS WITH DOD OUTLIER CRITERIA					VERSION 8 WEIGHTS WITH CHAMPUS OUTLIER CRITERIA					Percentage Difference Case Weight	Absolute Difference Low Trim Point	Absolute Difference High Trim Point	Percentage Difference GLOS
		Case Weight	Low Trim Point	High Trim Point	GLOS	Case Weight	Low Trim Point	High Trim Point	GLOS						
441	HAND PROCEDURES FOR INJURIES	0.9523	1	20	3.6	0.8430	1	17	2.2	-11.5%	0	-3	-38.7%		
442	OTHER O.R. PROCEDURES FOR INJURIES W CC	2.5787	1	22	5.7	2.4978	1	34	5.6	-3.1%	0	12	-1.8%		
443	OTHER O.R. PROCEDURES FOR INJURIES W/O CC	1.3343	1	13	2.7	1.0625	1	31	2.6	-20.4%	0	18	-5.3%		
444	TRAUMATIC INJURY AGE >17 W CC	0.9972	1	12	2.8	0.9504	1	33	4.1	-4.7%	0	21	44.9%		
445	TRAUMATIC INJURY AGE >17 W/O CC	0.8053	1	8	2.2	0.5651	1	31	2.7	-29.9%	0	23	23.3%		
446	TRAUMATIC INJURY AGE 0-17	0.6391	1	6	1.8	0.4562	1	17	2.0	-28.6%	0	11	13.2%		
447	ALLERGIC REACTIONS AGE >17	0.4913	1	4	1.5	0.5197	1	16	2.1	5.9%	0	14	42.2%		
448	ALLERGIC REACTIONS AGE 0-17	0.2662	1	3	1.3	0.2790	1	11	1.5	-5.5%	0	8	11.4%		
449	POISONING & TOXIC EFFECTS OF DRUGS AGE >17 W CC	0.9045	1	14	3.0	0.9099	1	31	2.8	0.6%	0	17	-6.8%		
450	POISONING & TOXIC EFFECTS OF DRUGS AGE >17 W/O CC	0.4673	1	7	1.9	0.5039	1	24	2.0	7.8%	0	17	6.9%		
451	POISONING AND TOXIC EFFECTS OF DRUGS AGE 0-17	0.3600	1	2	1.2	0.4245	1	11	1.6	17.9%	0	9	30.0%		
452	COMPLICATIONS OF TREATMENT W CC	1.0734	1	21	4.2	1.4527	1	33	4.4	35.3%	0	12	4.1%		
453	COMPLICATIONS OF TREATMENT W/O CC	0.4458	1	9	2.2	0.5390	1	23	2.3	20.9%	0	14	3.1%		
454	OTHER INJURY, POISONING & TOXIC EFFECT DIAG W CC	1.3981	1	8	1.9	1.0135	1	21	2.1	-27.0%	0	13	7.8%		
455	OTHER INJURY, POISONING & TOXIC EFFECT DIAG W/O CC	0.4340	1	3	1.4	0.3647	1	8	1.5	-16.0%	0	5	6.7%		
456	BURNS, TRANSFERRED TO ANOTHER ACUTE CARE FACILITY	0.9577	1	27	10.7	1.5138	1	37	4.1	58.1%	0	6	-81.8%		
457	EXTENSIVE BURNS W/O R. PROCEDURE	3.4639	1	21	4.9	6.2203	1	33	8.4	78.5%	0	16	72.6%		
458	NON-EXTENSIVE BURNS W SKIN GRAFTS	3.9829	4	33	16.9	3.1577	1	40	11.1	2.1%	-3	7	-34.4%		
459	NON-EXTENSIVE BURNS W WOUND DEBRIDEMENT OR OTHER O.R. PROC	1.7401	1	21	4.9	2.0217	1	32	3.9	16.2%	0	15	48.0%		
460	NON-EXTENSIVE BURNS W/O R. PROCEDURE	0.8708	1	18	3.1	0.8559	1	32	3.9	-1.7%	0	14	25.4%		
461	O.R. PROC WITH DIAGNOSES OF OTHER CONTACT W HEALTH SERVICES	0.9335	1	11	2.1	1.2927	1	32	3.0	38.5%	0	21	43.2%		
462	REHABILITATION	3.1150	3	27	10.1	3.1031	1	44	15.6	-0.4%	-2	17	54.2%		
463	SIGNS & SYMPTOMS WITH CC	0.9359	1	19	3.4	0.8566	1	32	3.8	-8.5%	0	13	11.7%		
464	SIGNS & SYMPTOMS W/O CC	0.6013	1	12	2.8	0.5368	1	26	2.9	-10.4%	0	14	11.1%		
465	AFTERCARE W HISTORY OF MALIGNANCY AS SECONDARY DIAGNOSIS	0.3985	1	4	1.4	0.3995	1	21	1.9	2.8%	0	17	33.7%		
466	AFTERCARE W HISTORY OF MALIGNANCY AS SECONDARY DIAGNOSIS	0.4827	1	6	1.5	0.7089	1	31	2.4	53.2%	0	25	55.7%		
467	OTHER FACTORS INFLUENCING HEALTH STATUS	0.3429	1	6	1.8	0.4805	1	16	1.9	34.3%	0	10	16.4%		
468	EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS	1.8778	1	20	3.5	2.2231	1	34	5.3	32.5%	0	14	50.9%		
469	PRINCIPAL DIAGNOSIS INVALID AS DISCHARGE DIAGNOSIS	0.0000	1	8	1.7	---	---	---	---	---	---	---	---		
470	UNGROUPABLE	0.0000	1	12	2.6	---	---	---	---	---	---	---	---		
471	BILATERAL OR MULTIPLE MAJOR JOINT PROCEDURES OF LOWER EXTREM	4.3899	8	41	25.0	4.8208	3	42	13.5	9.7%	-5	1	-45.9%		
472	EXTENSIVE BURNS W/O R. PROCEDURE	13.3002	6	39	22.4	11.7637	1	50	21.0	-11.6%	-5	11	-6.4%		
473	ACUTE LEUKEMIA W/O MAJOR O.R. PROCEDURE AGE > 17	4.7101	1	24	7.5	5.3447	1	38	9.9	13.5%	0	14	31.9%		
474	NO LONGER VALID	---	---	---	---	---	---	---	---	---	---	---	---		
475	RESPIRATORY SYSTEM DIAGNOSIS WITH VENTILATOR SUPPORT	---	---	---	---	4.3450	1	36	7.6	---	---	---	---		
476	PROSTATIC O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS	---	---	---	---	2.4981	1	38	9.8	---	---	---	---		
477	NON-EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS	---	---	---	---	1.3297	1	32	3.8	---	---	---	---		
478	OTHER VASCULAR PROCEDURES W CC	---	---	---	---	3.0829	1	35	6.9	---	---	---	---		
479	OTHER VASCULAR PROCEDURES W/O CC	---	---	---	---	1.7071	1	32	3.8	---	---	---	---		
480	LIVER TRANSPLANT	---	---	---	---	17.7168	1	52	22.8	---	---	---	---		
481	BONE MARROW TRANSPLANT	---	---	---	---	12.4485	1	66	38.6	---	---	---	---		
482	TRACHEOSTOMY W MOUTH, LARYNX OR PHARYNX DISORDER	---	---	---	---	3.2711	2	39	10.0	---	---	---	---		
483	TRACHEOSTOMY EXCEPT FOR MOUTH, LARYNX OR PHARYNX DISORDER	---	---	---	---	11.7830	1	48	19.0	---	---	---	---		
484	CRANIOTOMY FOR MULTIPLE SIGNIFICANT TRAUMA	---	---	---	---	6.9972	1	43	13.5	---	---	---	---		
485	LIMB REATTACHMENT, HIP AND FEMUR PROC FOR MULTIPLE SIGNIFICANT	---	---	---	---	4.8561	2	43	14.4	---	---	---	---		
486	OTHER O.R. PROCEDURES FOR MULTIPLE SIGNIFICANT TRAUMA	---	---	---	---	5.3864	1	40	11.1	---	---	---	---		
487	OTHER MULTIPLE SIGNIFICANT TRAUMA	---	---	---	---	2.8580	1	36	7.0	---	---	---	---		
488	HIV W EXTENSIVE O.R. PROCEDURE	---	---	---	---	4.1298	1	48	18.8	---	---	---	---		
489	HIV W MAJOR RELATED CONDITION	---	---	---	---	3.6808	1	39	10.6	---	---	---	---		
490	HIV W OR WHO OTHER RELATED CONDITION	---	---	---	---	2.1449	1	33	4.4	---	---	---	---		
600	NEONATE, DIED WITHIN ONE DAY OF BIRTH	---	---	---	---	0.7679	1	1	1.0	---	---	---	---		
601	NEONATE, TRANSFERRED <5 DAYS OLD	---	---	---	---	0.3424	1	8	1.7	---	---	---	---		
602	NEONATE, BIRTHWT <750G, DISCHARGED ALIVE	---	---	---	---	4.1115	1	34	9.0	---	---	---	---		
603	NEONATE, BIRTHWT <750G, DIED	---	---	---	---	6.6799	1	25	3.7	---	---	---	---		
604	NEONATE, BIRTHWT 750-999G, DISCHARGED ALIVE	---	---	---	---	10.6475	1	54	25.7	---	---	---	---		

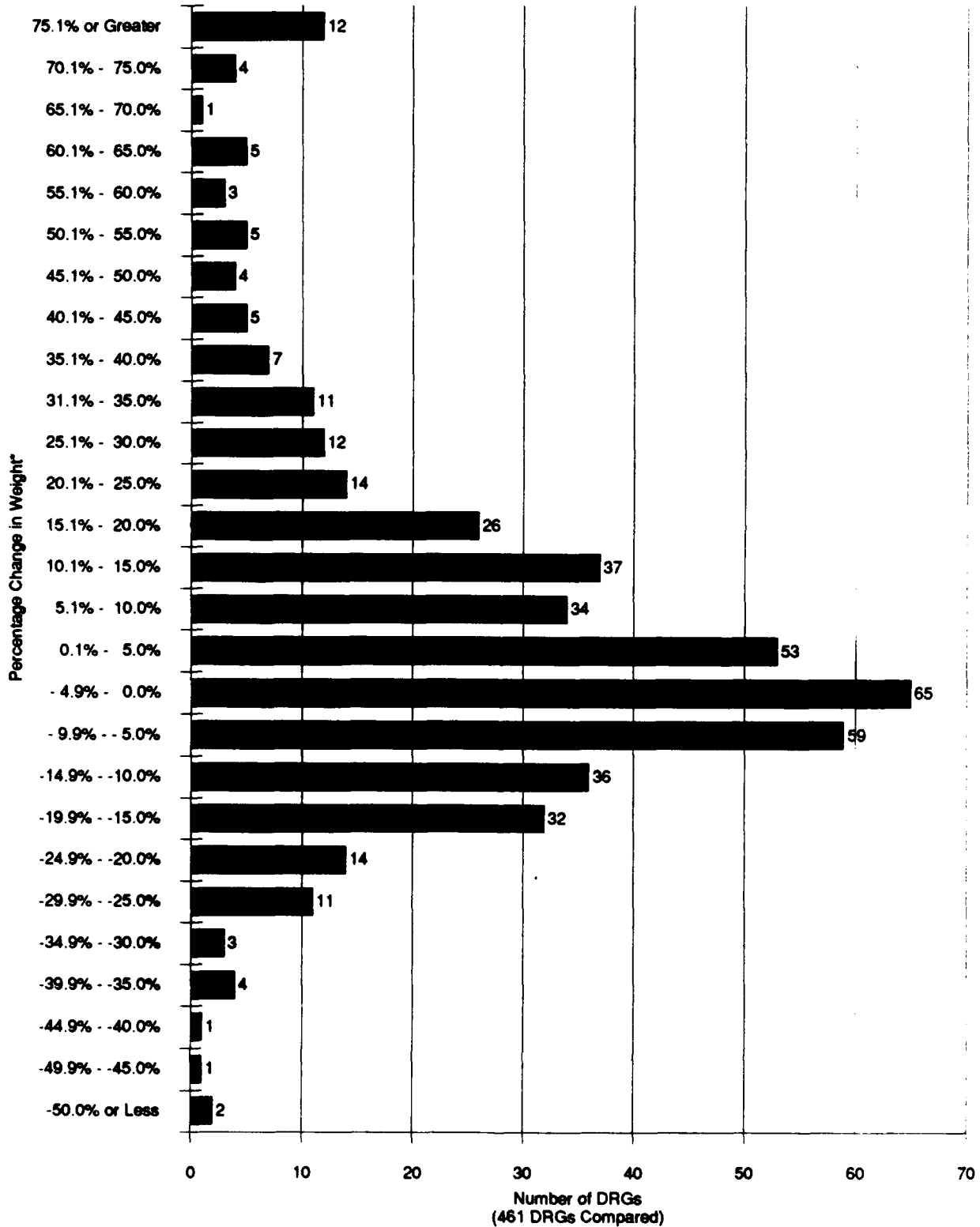
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EXHIBIT 3-1: VERSION 4 CASE WEIGHTS WITH DIRECT CARE OUTLIER CRITERIA VERSUS VERSION 8 WEIGHTS WITH CHAMPUS OUTLIER CRITERIA  
(Concluded)

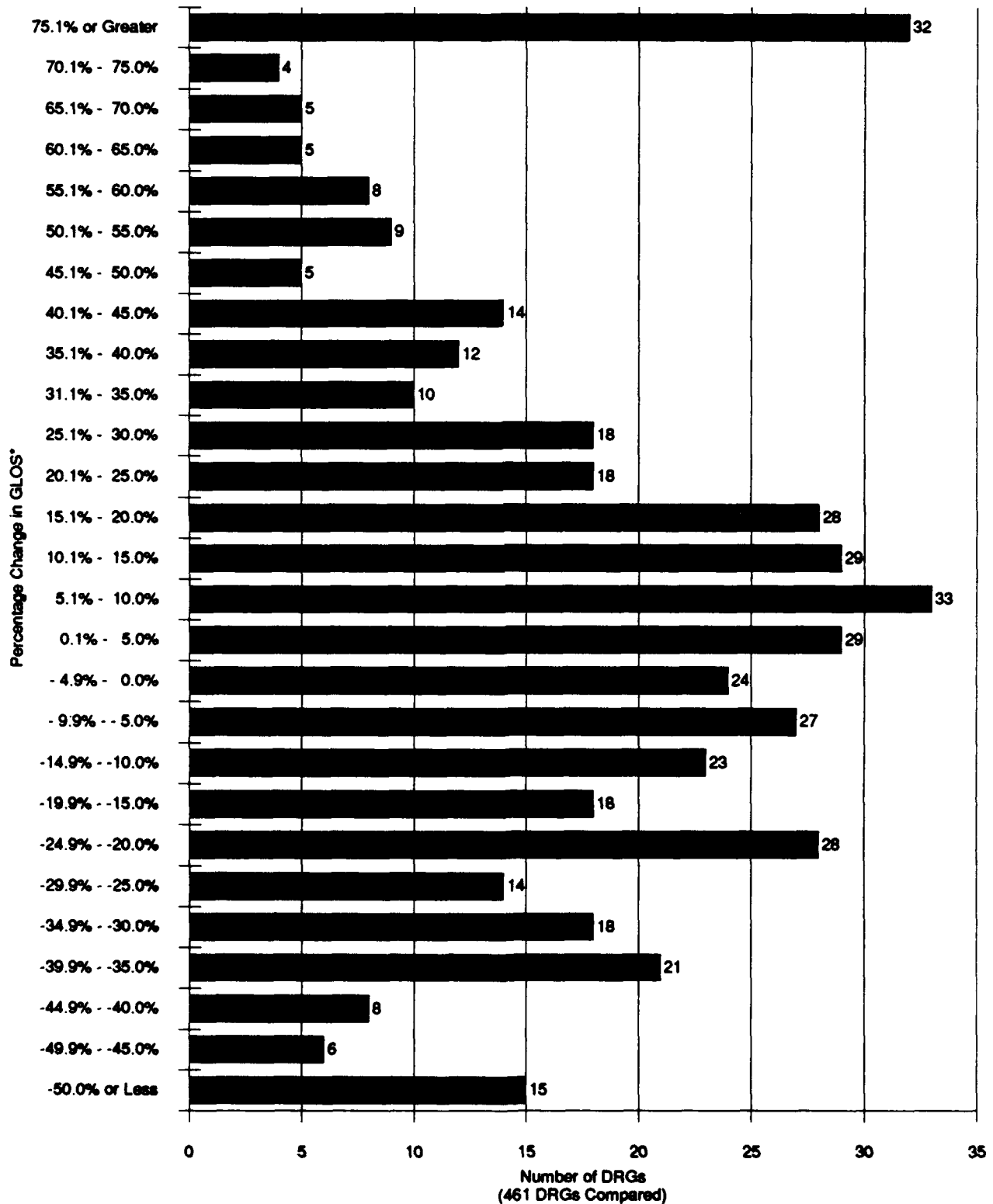
DRG	Description	VERSION 4 WEIGHTS WITH DED OUTLIER CRITERIA					VERSION 8 WEIGHTS WITH CHAMPUS OUTLIER CRITERIA					
		Case Weight	Low Trim Point	High Trim Point	GLOS	Case Weight	Low Trim Point	High Trim Point	GLOS	Percentage Difference Case Weight	Absolute Difference Low Trim Point	Absolute Difference High Trim Point
605	NEONATE, BIRTHWT 750-999G, DIED	4.6898	1	34	6.0	4.6898	1	34	6.0	0.0000	0.0000	0.0000
606	NEONATE, BIRTHWT 1000-1499G, W SIGNIF OR PROC, DISCHARGED ALIVE	13.7310	17	90	61.5	13.7310	17	90	61.5	0.0000	0.0000	0.0000
607	NEONATE, BIRTHWT 1000-1499G, W SIGNIF OR PROC, DISCHARGED ALI	6.1938	1	51	22.8	6.1938	1	51	22.8	0.0000	0.0000	0.0000
608	NEONATE, BIRTHWT 1000-1499G, DIED	5.6951	1	35	6.9	5.6951	1	35	6.9	0.0000	0.0000	0.0000
609	NEONATE, BIRTHWT 1500-1999G, W SIGNIF OR PROC, W MULT MAJOR PR	6.1881	1	47	19.0	6.1881	1	47	19.0	0.0000	0.0000	0.0000
610	NEONATE, BIRTHWT 1500-1999G, W SIGNIF OR PROC, WHO MULT MAJOR P	7.9709	12	61	32.2	7.9709	12	61	32.2	0.0000	0.0000	0.0000
611	NEONATE, BIRTHWT 1500-1999G, WHO SIGNIF OR PROC, W MULT MAJOR P	5.2900	1	43	14.3	5.2900	1	43	14.3	0.0000	0.0000	0.0000
612	NEONATE, BIRTHWT 1500-1999G, WHO SIGNIF OR PROC, W MAJOR PR	3.9789	1	44	15.2	3.9789	1	44	15.2	0.0000	0.0000	0.0000
613	NEONATE, BIRTHWT 1500-1999G, WHO SIGNIF OR PROC, W MINOR PR	2.3547	1	42	13.2	2.3547	1	42	13.2	0.0000	0.0000	0.0000
614	NEONATE, BIRTHWT 1500-1999G, WHO SIGNIF OR PROC, W OTHER PR	1.4089	1	38	9.9	1.4089	1	38	9.9	0.0000	0.0000	0.0000
615	NEONATE, BIRTHWT 2000-2499G, W SIGNIF OR PROC, W MULT MAJOR PR	6.3399	2	47	18.3	6.3399	2	47	18.3	0.0000	0.0000	0.0000
616	NEONATE, BIRTHWT 2000-2499G, W SIGNIF OR PROC, WHO MULT MAJOR PR	9.2240	1	43	14.1	9.2240	1	43	14.1	0.0000	0.0000	0.0000
617	NEONATE, BIRTHWT 2000-2499G, WHO SIGNIF OR PROC, W MULT MAJOR PR	3.7257	1	39	10.4	3.7257	1	39	10.4	0.0000	0.0000	0.0000
618	NEONATE, BIRTHWT 2000-2499G, WHO SIGNIF OR PROC, W MAJOR PR	2.3618	1	37	8.9	2.3618	1	37	8.9	0.0000	0.0000	0.0000
619	NEONATE, BIRTHWT 2000-2499G, WHO SIGNIF OR PROC, W MINOR PR	1.4565	1	36	7.5	1.4565	1	36	7.5	0.0000	0.0000	0.0000
620	NO LONGER VALID											
621	NEONATE, BIRTHWT 2000-2499G, WHO SIGNIF OR PROC, W OTHER PR	0.4882	1	31	3.8	0.4882	1	31	3.8	0.0000	0.0000	0.0000
622	NEONATE, BIRTHWT >2499G, W SIGNIF OR PROC, W MULT MAJOR PR	8.4813	1	46	17.6	8.4813	1	46	17.6	0.0000	0.0000	0.0000
623	NEONATE, BIRTHWT >2499G, W SIGNIF OR PROC, WHO MULT PR	3.2339	1	35	6.6	3.2339	1	35	6.6	0.0000	0.0000	0.0000
624	NEONATE, BIRTHWT >2499G, W MINOR ABOOM PROCEDURE	0.9017	1	28	3.6	0.9017	1	28	3.6	0.0000	0.0000	0.0000
625	NO LONGER VALID											
626	NEONATE, BIRTHWT >2499G, WHO SIGNIF OR PROC, MULT MAJOR PR	3.7213	1	36	7.7	3.7213	1	36	7.7	0.0000	0.0000	0.0000
627	NEONATE, BIRTHWT >2499G, WHO SIGNIF OR PROC, W MAJOR PR	1.1313	1	33	4.0	1.1313	1	33	4.0	0.0000	0.0000	0.0000
628	NEONATE, BIRTHWT >2499G, WHO SIGNIF OR PROC, W MINOR PR	0.8175	1	28	3.7	0.8175	1	28	3.7	0.0000	0.0000	0.0000
629	NO LONGER VALID											
630	NEONATE, BIRTHWT >2499G, WHO SIGNIF OR PROC, W OTHER PR	0.1917	1	11	2.8	0.1917	1	11	2.8	0.0000	0.0000	0.0000
631	BPD AND OTH CHRONIC RESPIRATORY DISEASES ARISING IN PERINATAL P	5.9659	1	38	9.2	5.9659	1	38	9.2	0.0000	0.0000	0.0000
632	OTHER RESPIRATORY PROBLEMS AFTER BIRTH	0.7807	1	32	3.6	0.7807	1	32	3.6	0.0000	0.0000	0.0000
633	MULTIPLE, OTHER AND UNSPECIFIED CONGENITAL ANOMALIES, W CC	0.3328	1	1	1.0	0.3328	1	1	1.0	0.0000	0.0000	0.0000
634	MULTIPLE, OTHER AND UNSPECIFIED CONGENITAL ANOMALIES, WHO CC	2.4083	4	5	5.0	2.4083	4	5	5.0	0.0000	0.0000	0.0000
635	NEONATAL AFTERCARE FOR WEIGHT GAIN	1.2808	1	33	4.8	1.2808	1	33	4.8	0.0000	0.0000	0.0000
636	NEONATAL DIAGNOSIS AGE > 28 DAYS	5.1986	1	37	9.0	5.1986	1	37	9.0	0.0000	0.0000	0.0000
900	ALCOHOL ABUSE OR DEPEND, DETOX OR OTH SYMPT TREAT AGE <=21 WHO	2.0032	1	43	14.6	2.0032	1	43	14.6	0.0000	0.0000	0.0000
901	ALCOHOL ABUSE OR DEPEND, DETOX OR OTH SYMPT TREAT AGE > 21 WHO	1.4233	1	39	10.3	1.4233	1	39	10.3	0.0000	0.0000	0.0000

**EXHIBIT 3-2: HISTOGRAM OF PERCENTAGE CHANGE IN VERSION 4 DRG CASE WEIGHT VERSUS VERSION 8 DRG CASE WEIGHT**



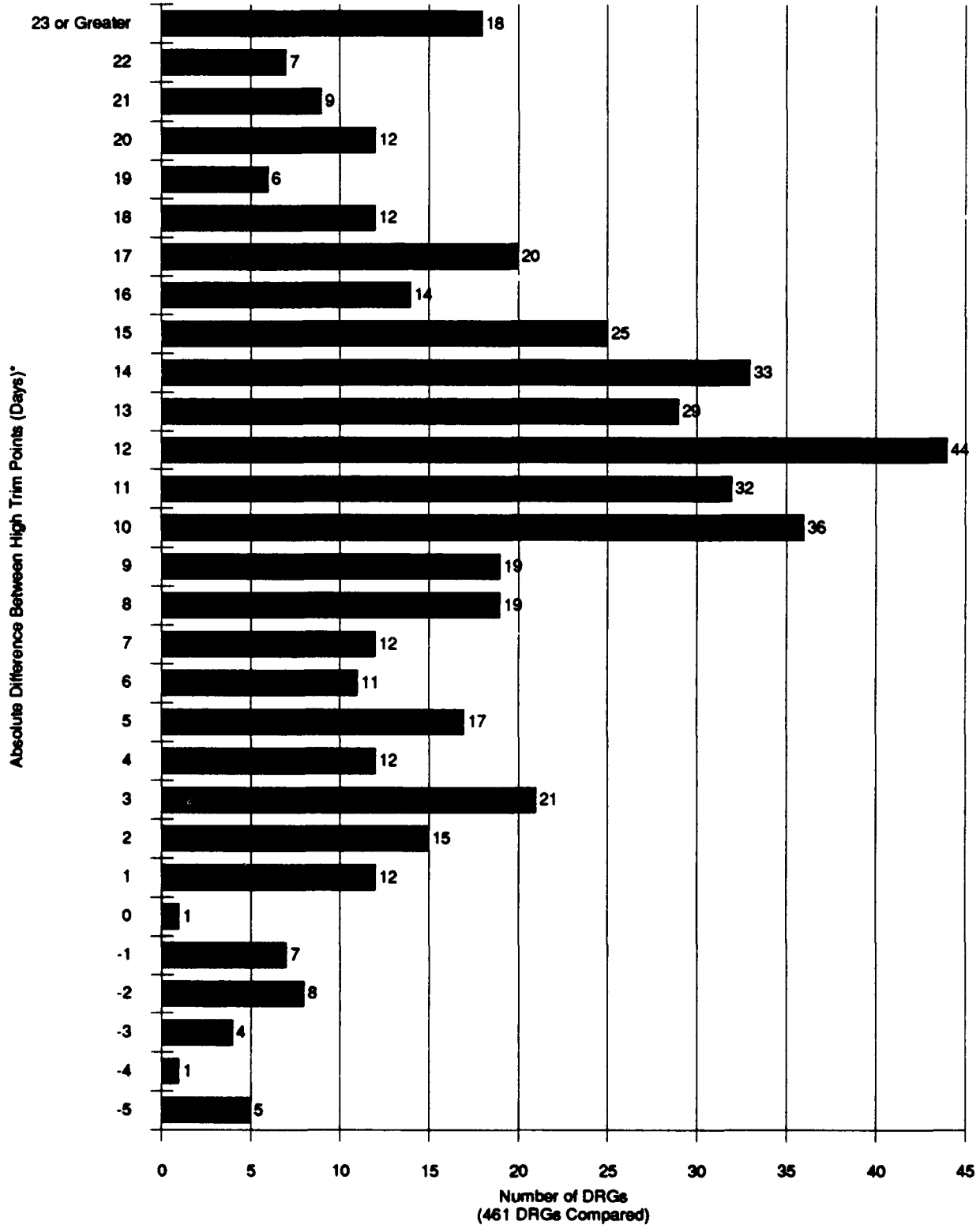
\*A percentage change less than zero indicates that the Version 8 case weight is less than the Version 4 case weight.

**EXHIBIT 3-3: HISTOGRAM OF PERCENTAGE CHANGE IN VERSION 4 DIRECT CARE GEOMETRIC MEAN LENGTH OF STAY (GLOS) VERSUS VERSION 8 CHAMPUS GLOS**



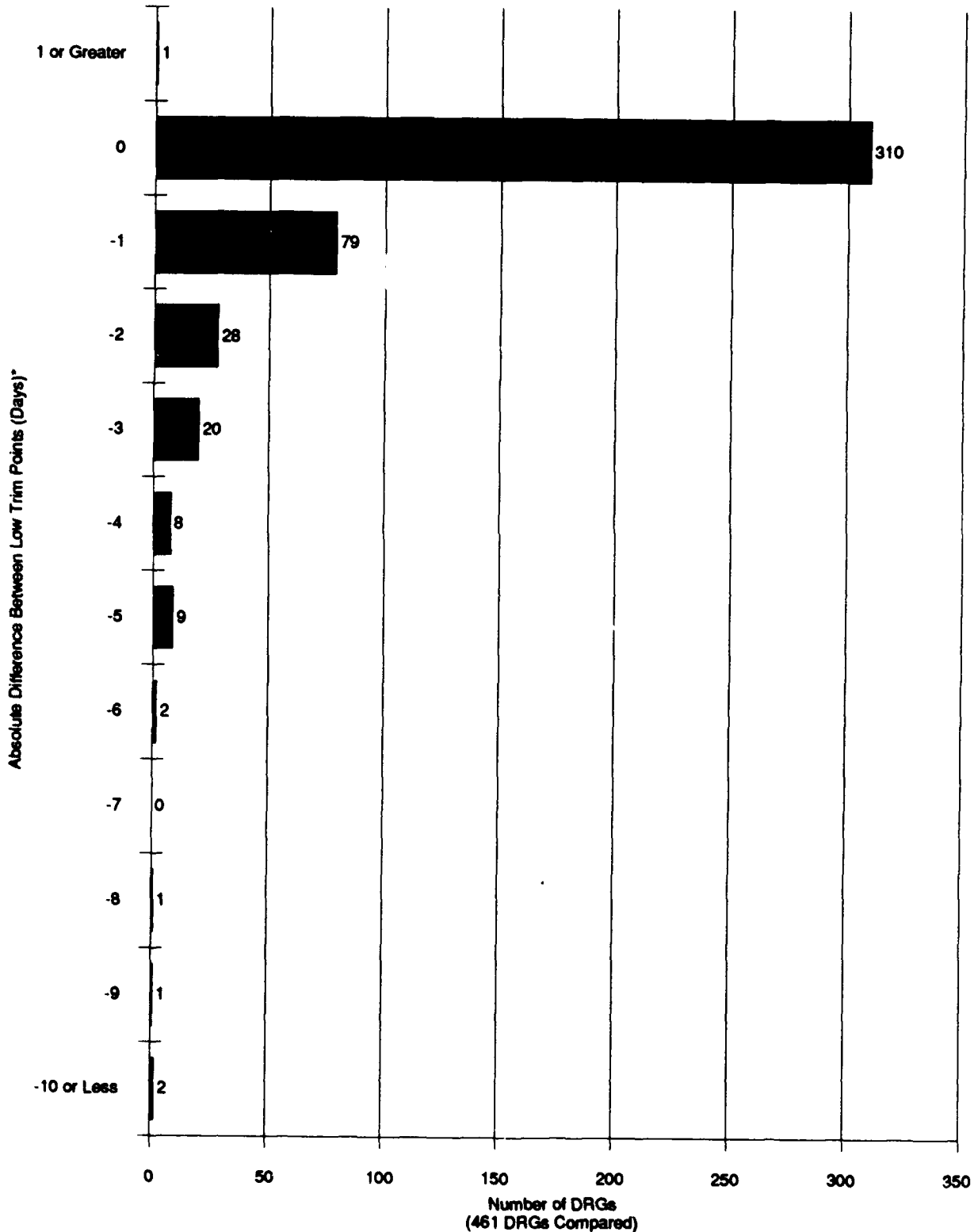
\* A percentage change less than zero indicates that the Version 8 CHAMPUS GLOS is less than the Version 4 direct care GLOS.

**EXHIBIT 3-4: HISTOGRAM OF ABSOLUTE DIFFERENCE BETWEEN  
VERSION 4 DIRECT CARE HIGH TRIM POINT AND  
VERSION 8 CHAMPUS HIGH TRIM POINT**



\* An absolute difference less than zero indicates that the Version 8 CHAMPUS high trim point is less than the Version 4 direct care high trim point.

**EXHIBIT 3-5: HISTOGRAM OF ABSOLUTE DIFFERENCE BETWEEN  
VERSION 4 DIRECT CARE LOW TRIM POINT AND  
VERSION 8 CHAMPUS LOW TRIM POINT**

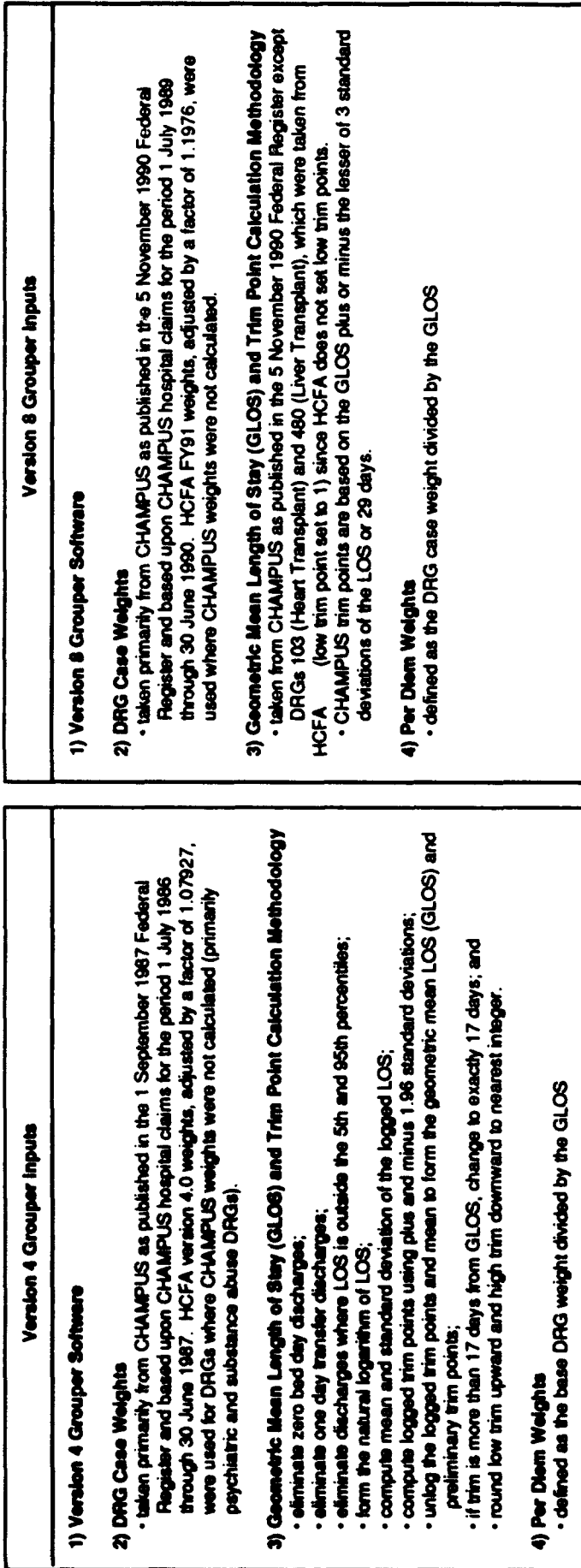


\*An absolute difference less than zero indicates the Version 8 CHAMPUS low trim point is less than the Version 4 direct care low trim point.

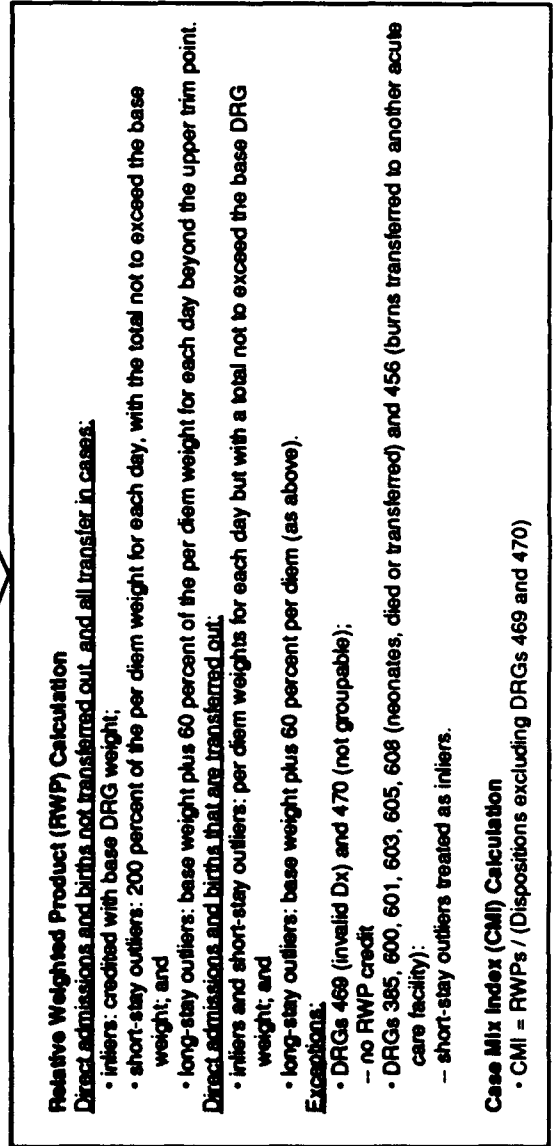
These differences, as well as the methodology used to compute relative weighted products (RWPs) and case-mix indices (CMIs), are summarized in exhibit 3-6.

Review of exhibit 3-2 shows that the DRGs compared (new DRGs and DRGs that are not valid within the Version 8 Grouper cannot be compared) display a relatively high degree of variation. Of the 461 DRGs compared, 108 have a relative increase or decrease of greater than 20% or more. Note, however, that many mental health and substance abuse related Version 4 case weights were taken directly from Medicare and respective Version 8 weights were computed using CHAMPUS data. Looking at exhibit 3-1, DRGs 424 through 438 generally show a substantial increase in case weights, high trim points, and GLOS. This reflects differences in CHAMPUS and Medicare policies for providing and paying for mental health related care. Additionally, the Version 8 weights will reflect differences in medical care practice and CHAMPUS policy implemented between FY88 and FY90.

Exhibit 3-3 presents a comparison of Version 4 direct care GLOS to FY91 (Version 8) CHAMPUS published GLOS. Differences in observed GLOS may be attributed to differences between the direct care and CHAMPUS systems in practice patterns, impact of cost sharing within CHAMPUS, as well as changes over time that can be observed within both systems. Overall, of the 461 DRGs compared, 110 have greater than a 20% decrease in observed GLOS, and 140 have greater than a 20% increase in observed GLOS. Note, an increase in GLOS within a given DRG will decrease outlier per diem credit, and a decrease in GLOS will increase outlier per diem credit, since per diem credit is based on the case weight divided by the GLOS. Thus, some differences in computed RWP credit and CMI within particular DRGs will be due to differences in GLOS



COMPUTATION OF  
RWPs AND CMIs



independent of changes in the case weight. Again, the Version 8 GLOS will reflect differences in medical care practice and CHAMPUS policy implemented between FY88 and FY90.

Exhibits 3-4 and 3-5 summarize the absolute differences in high and low DRG trim points, respectively. Recall the previously mentioned differences in methods used to compute Version 4 and Version 8 high and low trim points. Of the 461 DRGs compared, only 25 have a decrease in their high trim point, and 301 have an increase in their high trim points of 10 or more days. Thus, some differences in computed RWP credit and CMI within particular DRGs will be due to differences in GLOS independent of changes in the case weight. Again, the Version 8 GLOS will reflect differences in points of 10 or more days. Thus, fewer discharges will receive long-stay outlier credit as this update represents an increase in most DRG high trim points.

For low trim points, shown in exhibit 3-4, one DRG has an increase in its low trim point, 310 have no change, and 127 have a decrease between 1 and 3 days. Using Version 4 outlier criteria, of the 461 DRGs compared, 157 DRGs have a low trim point greater than one. With Version 8 outlier criteria, only 22 DRGs have a low trim point greater than one. Thus, very few stays using Version 8 outlier criteria are short-stay outliers and receive short-stay per diem credit. For some discharges and DRGs, this observed decrease in the low trim point will increase assigned RWP credit.

As for low trim points, since most low trim points are equal to one, and therefore cannot be reduced further, only a few DRGs are impacted. Of the 461 DRGs compared, 310 have no change, and 127 have a decrease of between 1 and 3 days. In total, only 22 Version 8 DRGs have CHAMPUS low trim points greater than one day. Thus, very few stays are



short-stay outliers and receive short-stay per diem credit. For some DRGs, this observed decrease in the low trim point may increase assigned RWP credit.

If a discharge has a length of stay lower than the low trim point then the discharge will obtain per diem credit up to but not greater than the full case weight (inlier) credit. If lowering the low trim point causes the discharge to become an inlier, the discharge will be assigned full inlier credit. For example, a DRG with a case weight of 10.0 and a GLOS of 20.0 will have a per diem credit of 0.5. A discharge with a LOS of 7 days will receive 7.0 RWPs ( $200\% \times 0.5 \times 7\text{days}$ ) if the low trim point is 8 or greater. The discharge will receive 10.0 RWPs credit if the low trim point is 7 or lower as the discharge is now an inlier. Having summarized the differences in the two groupers, the remainder of this chapter summarizes the impact of using the FY91 (Version 8) DRG Grouper to compute workload and case-mix values as an alternative to the FY87 (Version 4) Grouper and weights with direct care outlier criteria.

Exhibit 3-7 presents Version 4 and Version 8 dispositions, RWPs, CMIs, and the percentage difference in CMI by clinical area. Note that differences in the Version 4 and Version 8 Grouper software will cause some discharges to be "ungroupable" and receive no credit. These differences cause the observed disparity in Version 4 dispositions and Version 8 dispositions. While the overall change in CMI is a 1.0% decrease, there is some extreme variation by clinical area. Due to substantial increases in case weights within mental health, psychiatric, and substance abuse care DRGs, there is a 46.4% increase in the CMI for care within the psychiatric clinical area. Furthermore, the addition of the neonatal care DRGs is the major contributor towards an increase in

**EXHIBIT 3-7: COMPARISON OF FY90 RWPs AND CMIs BY CLINICAL AREA USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA**

Clinical Area	Version 4			Version 8			Percentage Difference in CMI
	Dispositions	RWPs	CMIs	Dispositions	RWPs	CMIs	
Medical Care	169,554	190,901	1.1259	169,536	182,434	1.0761	-4.4%
Surgical Care	220,697	218,170	0.9885	220,695	213,204	0.9661	-2.3%
Ob/Gyn Care	172,578	111,372	0.6453	172,458	98,718	0.5724	-11.3%
Pediatric Care	131,646	54,638	0.4150	131,600	58,893	0.4475	7.8%
Orthopedic Care	83,352	91,678	1.0999	83,350	88,530	1.0621	-3.4%
Psychiatric Care	32,856	40,616	1.2362	32,855	59,445	1.8093	46.4%
Family Practice	56,095	36,374	0.6484	56,082	34,594	0.6169	-4.9%
Unknown	97	80	0.8221	23	31	1.3600	65.4%
<b>Total</b>	<b>866,875</b>	<b>743,829</b>	<b>0.8581</b>	<b>866,599</b>	<b>735,850</b>	<b>0.8491</b>	<b>-1.0%</b>

assigned credit within pediatric care. Lastly, the observed decline in credit assigned to the Obstetrics/Gynecological Care clinic is attributable to an overall decrease in case weights associated with pregnancy, childbirth, and the puerperium, especially DRGs 370 through 375. Note that the substantial increase in CMI for ungroupable/other care is due to the fact that dispositions that received credit in this category using the Version 8 DRG Grouper is a small subset of the discharges that received credit using the Version 4 Grouper. This is because the Version 8 software implementation is more selective in assigning no credit to discharges with incomplete data.

Exhibit 3-8 provides greater clinical detail, as RWPs and CMIs are presented by major diagnostic category (MDC). Note the similar patterns to that observed in the exhibit by clinical area including an increase in credit within MDC 19 - Mental Disease/Disorder and MDC 20 - Substance Use/Organic Mental Disorder. Additionally, the observed increase in credit in MDC 3 - Ear/Nose/Mouth/Throat and decrease in credit in MDC - 6, Digestive System, appears to be due to a shifting of more complex care from MDC 6 to MDC 3. The number of dispositions assigned to MDC 3 increased by 21,092 while the number of dispositions assigned to MDC 6 decreased by 21,767. The end result, however, is still a 10.0% decrease in credit for care within these two MDCs when the MDCs are combined.

The increase in credit to care in MDC 15 - Neonatal/Perinatal Period is directly due to the creation of DRGs 600 through 636. The decrease in credit to MDC 16 - Blood/Immunity is due to the creation of MDC 25 - HIV Infections, which includes some of the most resource-intensive care originally assigned to MDC 16. Lastly, the increase in credit within MDC 22 - Burns, is predominantly due to a roughly 300%

**EXHIBIT 3-8: COMPARISON OF FY90 RWPs AND CMIs BY MDC USING VERSION 4 VERSUS  
VERSION 8 WEIGHTS AND OUTLIER CRITERIA**

Major Diagnostic Category (MDC)	Version 4			Version 8			Percentage Difference in CMI
	Dispositions	RWPs	CMIs	Dispositions	RWPs	CMIs	
1 Nervous System	29,515	36,478	1.2359	29,182	37,136	1.2726	3.0%
2 Eye Disorders	16,181	11,373	0.7029	16,162	11,576	0.7163	1.9%
3 Ear/Nose/Mouth/Throat	48,555	26,941	0.5548	69,647	45,237	0.6495	17.1%
4 Respiratory System	41,003	50,485	1.2313	40,710	48,443	1.1900	-3.4%
5 Circulatory System	49,854	66,362	1.3311	50,072	66,735	1.3328	0.1%
6 Digestive System	107,410	99,128	0.9229	85,643	67,755	0.7911	-14.3%
7 Hepatobiliary System	14,377	21,025	1.4624	14,299	19,078	1.3342	-8.8%
8 Musculoskeletal System	85,876	94,026	1.0949	85,792	89,362	1.0416	-4.9%
9 Skin/Subcutaneous Tissue	41,959	36,492	0.8697	41,928	34,196	0.8156	-6.2%
10 Endocrine/Nutritional	13,859	13,075	0.9434	13,757	11,414	0.8297	-12.1%
11 Kidney/Urinary Tract	21,666	22,273	1.0280	21,653	20,118	0.9291	-9.6%
12 Male Reproductive System	19,156	14,189	0.7407	18,572	12,656	0.6815	-8.0%
13 Female Reproductive System	42,570	33,910	0.7966	42,543	32,012	0.7525	-5.5%
14 Pregnancy/Childbirth	135,382	78,880	0.5827	135,227	66,627	0.4927	-15.4%
15 Neonatal/Perinatal Period	94,420	27,119	0.2872	97,063	33,528	0.3454	20.3%
16 Blood/Immunity	8,382	10,952	1.3066	6,811	7,280	1.0688	-18.2%
17 Myeloproliferative/Neoplasms	8,481	13,900	1.6390	8,449	15,092	1.7863	9.0%
18 Infectious/Parasitic	16,434	14,032	0.8539	15,828	13,559	0.8567	0.3%
19 Mental Disease/Disorder	20,734	25,646	1.2369	20,681	42,434	2.0518	65.9%
20 Substance Use/Organic Mental	16,008	17,047	1.0649	16,008	24,112	1.5062	41.4%
21 Injury, Poison, Toxic Effects	15,178	16,039	1.0568	14,141	12,038	0.8513	-19.4%
22 Burns	1,238	2,605	2.1038	1,236	2,947	2.3843	13.3%
23 Other Factors/Contacts	18,637	11,853	0.6360	18,302	12,326	0.6735	5.9%
24 Multiple Significant Trauma	0	0	-----	754	4,015	5.3244	-----
25 HIV Infections	0	0	-----	2,139	6,173	2.8860	-----
<b>Total</b>	<b>866,875</b>	<b>743,829</b>	<b>0.8581</b>	<b>866,599</b>	<b>735,850</b>	<b>0.8491</b>	<b>-1.0%</b>

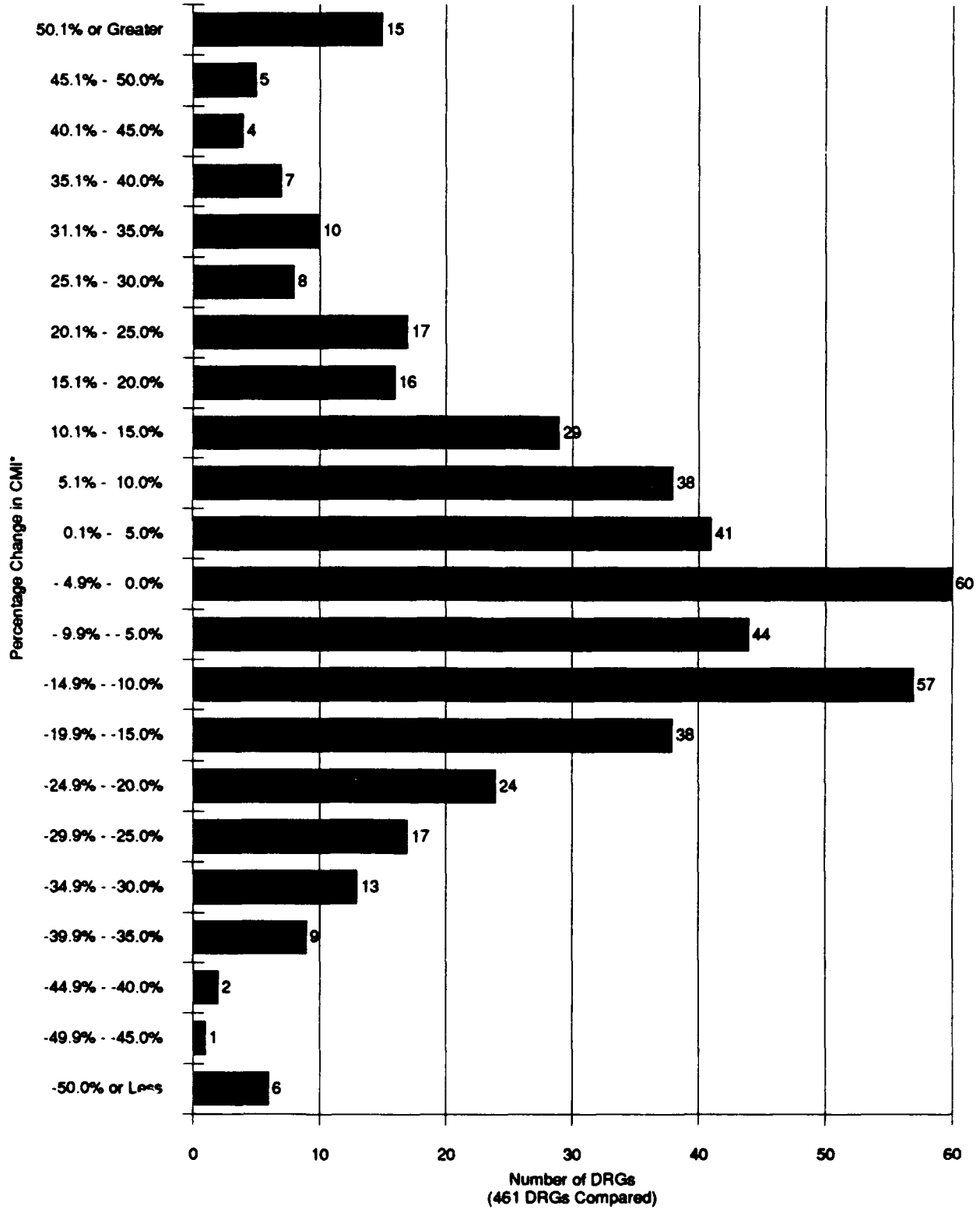
increase in credit for DRG 456 - Burns, Transferred to Another Acute Care Facility.

For additional detail, Appendix A provides Version 4 and Version 8 dispositions, RWPs, and CMIs for each DRG. Exhibit A-1 presents this information in DRG order, and Exhibit A-2 presents the information sorted by the percentage change in CMI. To summarize the data presented in the appendix, exhibit 3-9 is a histogram of the number of DRGs with a given percentage change in CMI. Of the 461 DRGs compared, 138 have greater than a 20% increase or decrease in CMI. The split is nearly equal with 66 DRGs increasing by more than 20% and 72 DRGs decreasing by more than 20%. Thus, the overall decrease in credit of 1.0% is not due to minor changes in credit within each DRG, but somewhat substantial changes at the DRG level that result in compensating differences with little change in overall credit.

Having reviewed the impact of updating the grouper at the clinical level, exhibits 3-10 and 3-11 display the impact at a summary demographic level. Exhibit 3-10 presents Version 4 and Version 8 dispositions, RWPs, and CMIs by beneficiary category and exhibit 3-11 presents the same information by sex and age group. The increase in active duty credit is due to the fact that a disproportionate amount of care within the psychiatric care clinic is provided to active duty personnel. Additionally, the decrease in long-stay outlier credit, somewhat concentrated within elderly patients, will tend to decrease credit for retirees, survivors, and their dependents.

Exhibit 3-11 emphasizes the impact of the addition of neonatal/prenatal care DRGs, as credit for children ages 0-4 increases by 9.1%. Additionally, since Ob/Gyn care credit decreases relative to

**EXHIBIT 3-9: HISTOGRAM OF PERCENTAGE CHANGE IN FY90 DRG CMI USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA**



\* A percentage change less than zero indicates that the Version 8 CMI is less than the Version 4 CMI.

EXHIBIT 3-10: COMPARISON OF FY90 RWPs AND CMIs BY BENEFICIARY STATUS USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA

Beneficiary Status	Version 4			Version 8			Percentage Difference in CMI
	Dispositions	RWPs	CMIs	Dispositions	RWPs	CMIs	
Active Duty	279,335	256,161	0.9170	279,227	263,855	0.9449	3.0%
Dep. of Active Duty	352,555	208,888	0.5925	352,406	204,542	0.5804	-2.0%
Retiree	107,341	143,061	1.3328	107,340	137,191	1.2781	-4.1%
Dep. of Retiree	86,919	90,499	1.0412	86,917	86,142	0.9911	-4.8%
Dep. of Survivor	19,299	24,816	1.2859	19,299	23,202	1.2022	-6.5%
Other	21,426	20,403	0.9522	21,410	20,917	0.9770	2.6%
<b>Total</b>	<b>868,875</b>	<b>743,829</b>	<b>0.8581</b>	<b>866,599</b>	<b>735,850</b>	<b>0.8491</b>	<b>-1.0%</b>

**EXHIBIT 3-11: COMPARISON OF FY90 RWP'S AND CMIs BY SEX AND AGE GROUP  
USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA**

Sex - Age	Version 4			Version 8			Percentage Difference in CMI
	Dispositions	RWPs	CMIs	Dispositions	RWPs	CMIs	
Female - Age 0 - 4	64,545	24,892	0.3856	64,514	27,766	0.4304	11.6%
Female - Age 5 - 14	12,901	8,465	0.6561	12,901	8,782	0.6807	3.8%
Female - Age 15 - 17	8,601	5,668	0.6590	8,601	5,502	0.6397	-2.9%
Female - Age 18 - 24	109,527	71,874	0.6562	109,434	67,720	0.6188	-5.7%
Female - Age 25 - 34	112,851	82,351	0.7297	112,794	77,158	0.6841	-6.3%
Female - Age 35 - 44	41,113	37,160	0.9039	41,102	35,425	0.8619	-4.6%
Female - Age 45 - 64	56,968	63,006	1.1060	56,968	60,153	1.0559	-4.5%
Female - Age 65+	32,226	42,901	1.3312	32,225	39,309	1.2198	-8.4%
Female - Age Unk.	1	1	0.9700	1	5	4.6900	383.5%
<b>Total Females</b>	<b>438,733</b>	<b>336,318</b>	<b>0.7666</b>	<b>438,540</b>	<b>321,820</b>	<b>0.7338</b>	<b>-4.3%</b>
Male - Age 0 - 4	79,652	34,116	0.4283	79,636	36,613	0.4598	7.3%
Male - Age 5 - 14	16,847	11,132	0.6608	16,847	11,428	0.6783	2.7%
Male - Age 15 - 17	5,802	4,535	0.7817	5,802	4,778	0.8235	5.4%
Male - Age 18 - 24	101,260	94,741	0.9356	101,241	103,165	1.0190	8.9%
Male - Age 25 - 34	70,842	71,110	1.0038	70,819	73,090	1.0321	2.8%
Male - Age 35 - 44	43,644	45,403	1.0403	43,633	45,451	1.0417	0.1%
Male - Age 45 - 64	62,574	79,311	1.2675	62,571	77,320	1.2357	-2.5%
Male - Age 65+	47,520	67,161	1.4133	47,509	62,176	1.3087	-7.4%
Male - Age Unk.	1	2	1.5100	1	7	6.6800	342.4%
<b>Total Males</b>	<b>428,142</b>	<b>407,510</b>	<b>0.9518</b>	<b>428,059</b>	<b>414,029</b>	<b>0.9672</b>	<b>1.6%</b>
Total - Age 0 - 4	144,197	59,007	0.4092	144,150	64,380	0.4466	9.1%
Total - Age 5 - 14	29,748	19,597	0.6588	29,748	20,210	0.6794	3.1%
Total - Age 15 - 17	14,403	10,203	0.7084	14,403	10,280	0.7138	0.8%
Total - Age 18 - 24	210,787	166,615	0.7904	210,675	170,885	0.8111	2.6%
Total - Age 25 - 34	183,693	153,462	0.8354	183,613	150,248	0.8183	-2.1%
Total - Age 35 - 44	84,757	82,563	0.9741	84,735	80,876	0.9545	-2.0%
Total - Age 45 - 64	119,542	142,317	1.1905	119,539	137,473	1.1500	-3.4%
Total - Age 65+	79,746	110,062	1.3802	79,734	101,486	1.2728	-7.8%
Total - Age Unk.	2	2	1.2400	2	11	5.6850	358.5%
<b>Grand Total</b>	<b>866,875</b>	<b>743,829</b>	<b>0.8581</b>	<b>866,599</b>	<b>735,850</b>	<b>0.8491</b>	<b>-1.0%</b>



the average, and psychiatric care increases relative to the average, there exist differences in credit by sex. Psychiatric care is predominantly provided to active duty males and therefore there is an average increase in credit for males. The credit to females decreases on average 4.3%, which is due to an average 11.3% decrease in Ob/Gyn credit. Over 30% of all workload credit for female patients is within the Ob/Gyn clinical area.

The above observed differences in changes by sex and beneficiary category are of interest for many reasons including the current investigation of per capita-based resource allocation systems. Where population demographics are considered, factors such as the provision of mental health and substance abuse care or Ob/Gyn care have obvious impacts on observed workload by age, sex, and beneficiary status. Additionally, it is important that a stable and accurate measure of workload be employed so reliable longitudinal trends and per capita resource requirements may be developed. This completes the review at the clinical and demographic level. Chapter 4.0 provides a review of the impact of updating the grouper at the facility level.



#### 4.0 IMPACT OF THE GROUPER UPDATE AT FACILITY AND PEER GROUP LEVELS

Since workload at each facility is a combination of care within many clinical areas, one anticipates some variation in change in facility CMI beyond the overall average of a 1.0% decline in CMI. Exhibits 4-1 through 4-4 present histograms of the number of facilities with a given percentage change in CMI.<sup>1</sup> Exhibit 4-1 includes all MTFs, while exhibits 4-2 through 4-4 are Service-branch specific and therefore include only Army, Navy, and Air Force facilities, respectively. Of the 164 facilities compared, all but 7 have less than a 10% increase or decrease in observed CMI. The facilities with greater than a 10% change in CMI typically have a disproportionate amount of care within mental health and substance abuse related DRGs or the Ob/Gyn clinical area where atypical changes in weights were observed. The facilities with greater than a 10% change are listed in the table below.

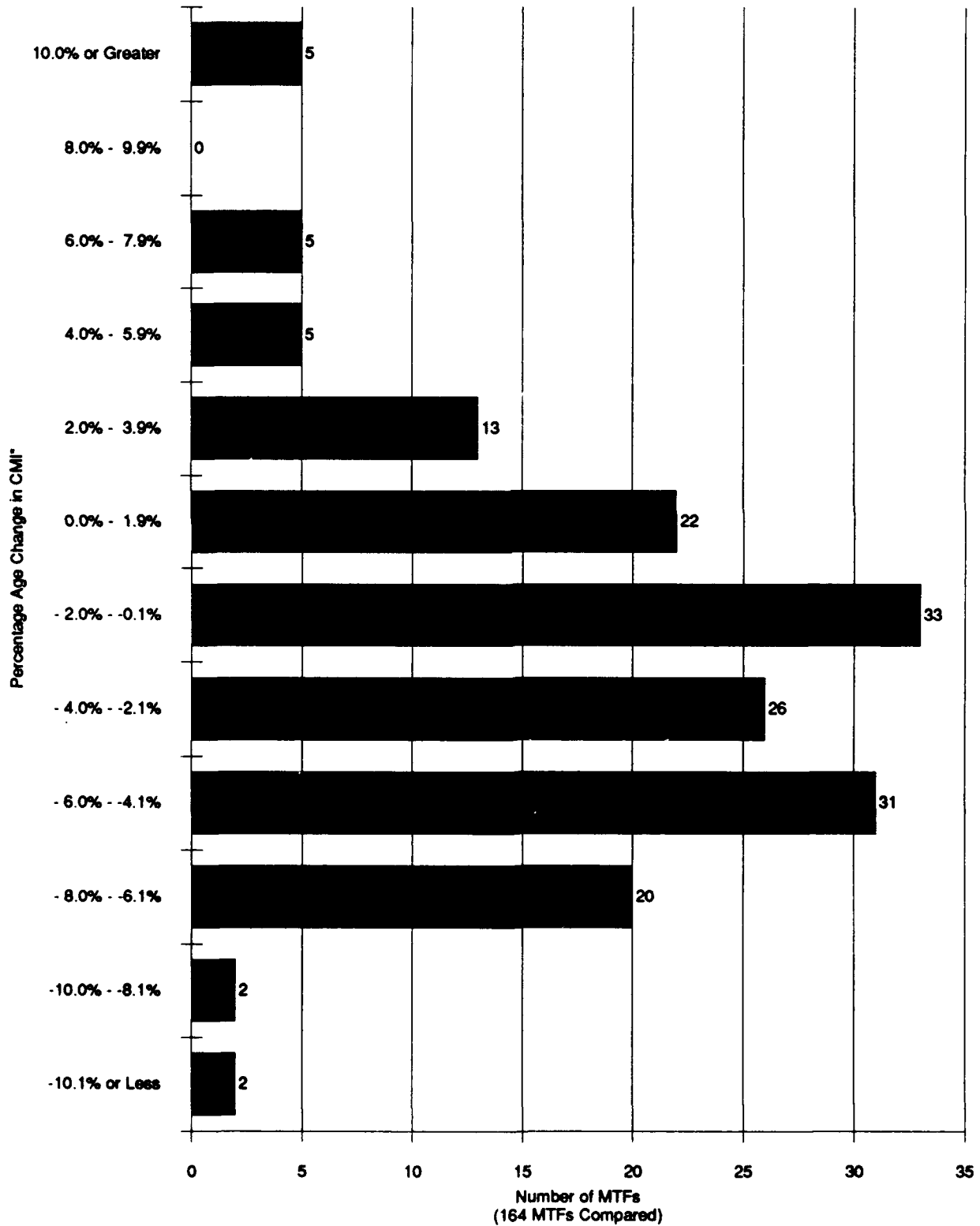
<u>DMIS ID</u>	<u>Facility</u>	<u>Percentage Change in CMI</u>
16	USAF Hosp Mather	-10.3%
28	NH Lemoore	-10.2%
39	NH Jacksonville	11.3%
40	NH Orlando	14.1%
99	NH Philadelphia	12.6%
107	NH Millington	13.8%
631	USAF Hosp Hellenikon	27.8%

The observed decreases at USAF Hospital Mather and NH Lemoore are due to the fact that these hospitals provide little or no inpatient psychiatric care, which had a substantial increase in average credit, and do provide a disproportionate amount of Ob/Gyn care, which had a decrease in average credit. On the other hand, NH Jacksonville, NH Orlando, NH Philadelphia, and NH Millington provide a substantial amount of

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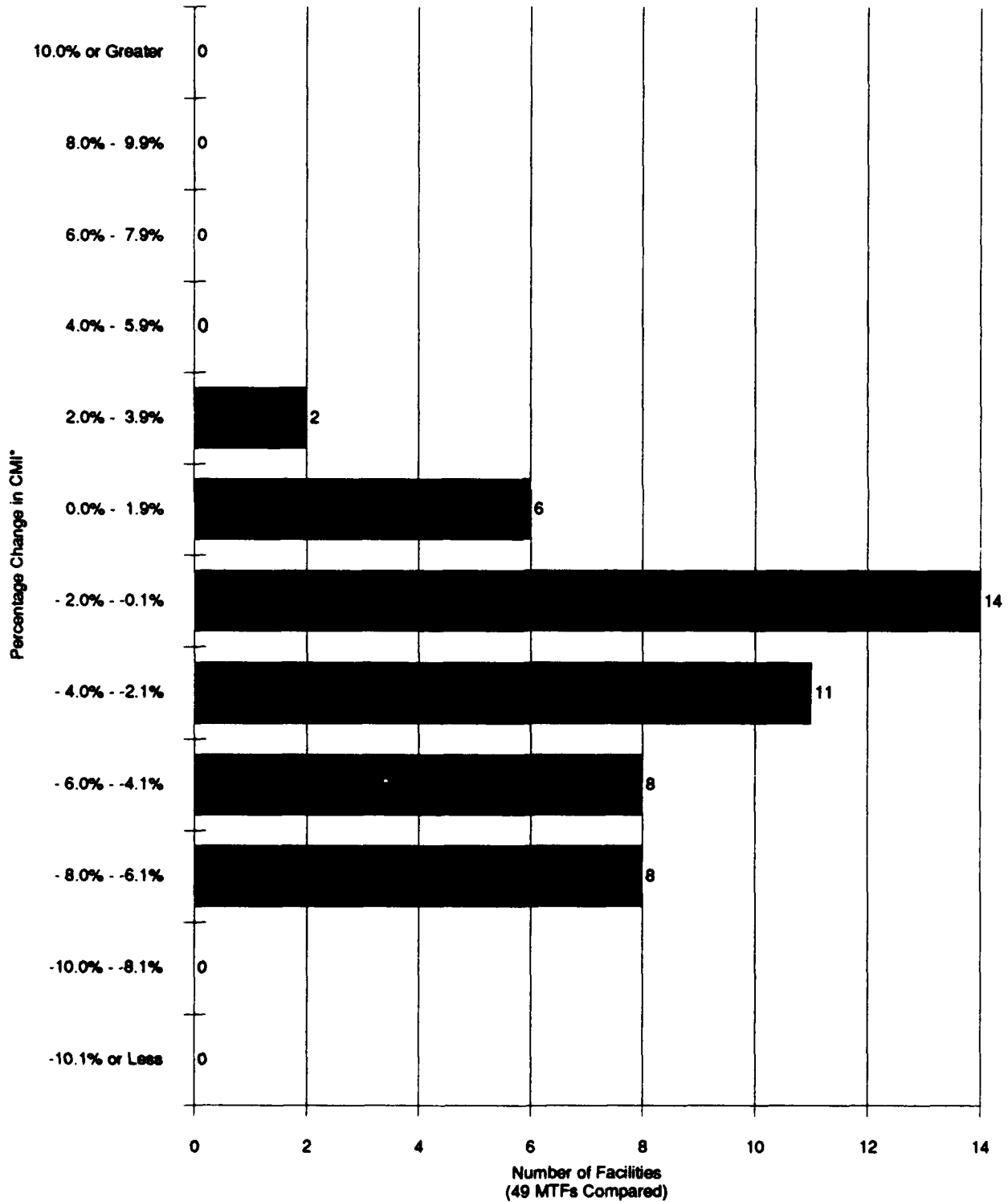
<sup>1</sup> For the purposes of this study, revised FY90 Version 4 DRG outlier criteria were used. These criteria were corrected to exclude 1 day transfers from the analysis data set prior to criteria estimation. Thus, the criteria and RWP results presented here may differ slightly from that reported elsewhere. However, the overall DoD impact is relatively minor and workload differences are restricted to a 0.6% decrease in RWPs when using revised criteria.

**EXHIBIT 4-1: HISTOGRAM OF PERCENTAGE CHANGE IN FACILITY FY90  
CMI's USING VERSION 4 VERSUS VERSION 8 WEIGHTS  
AND OUTLIER CRITERIA**



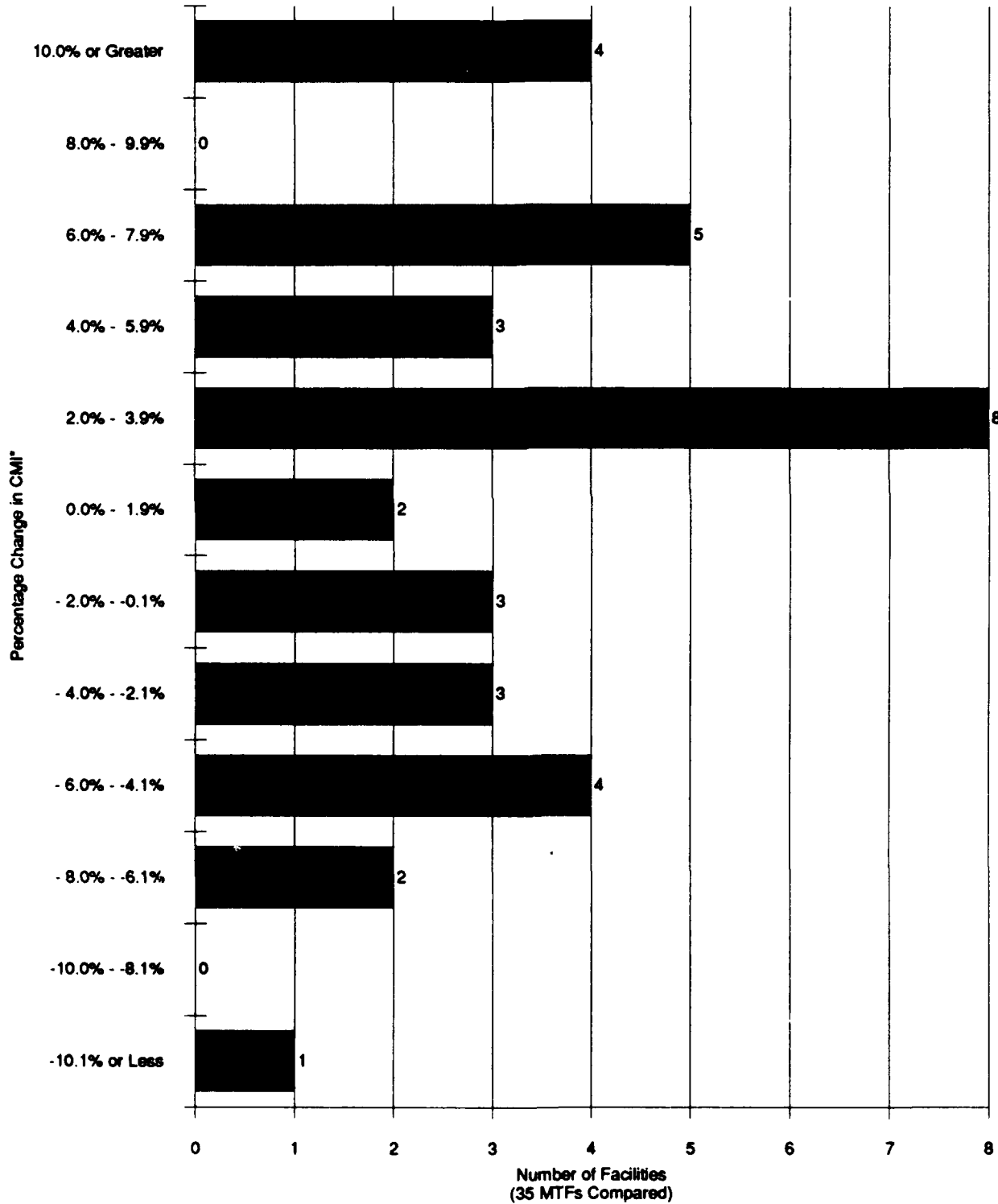
\* A percentage change less than zero indicates that the Version 8 CMI is less than the Version 4 CMI.

**EXHIBIT 4-2: HISTOGRAM OF PERCENTAGE CHANGE IN ARMY FACILITY CMIs USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA**



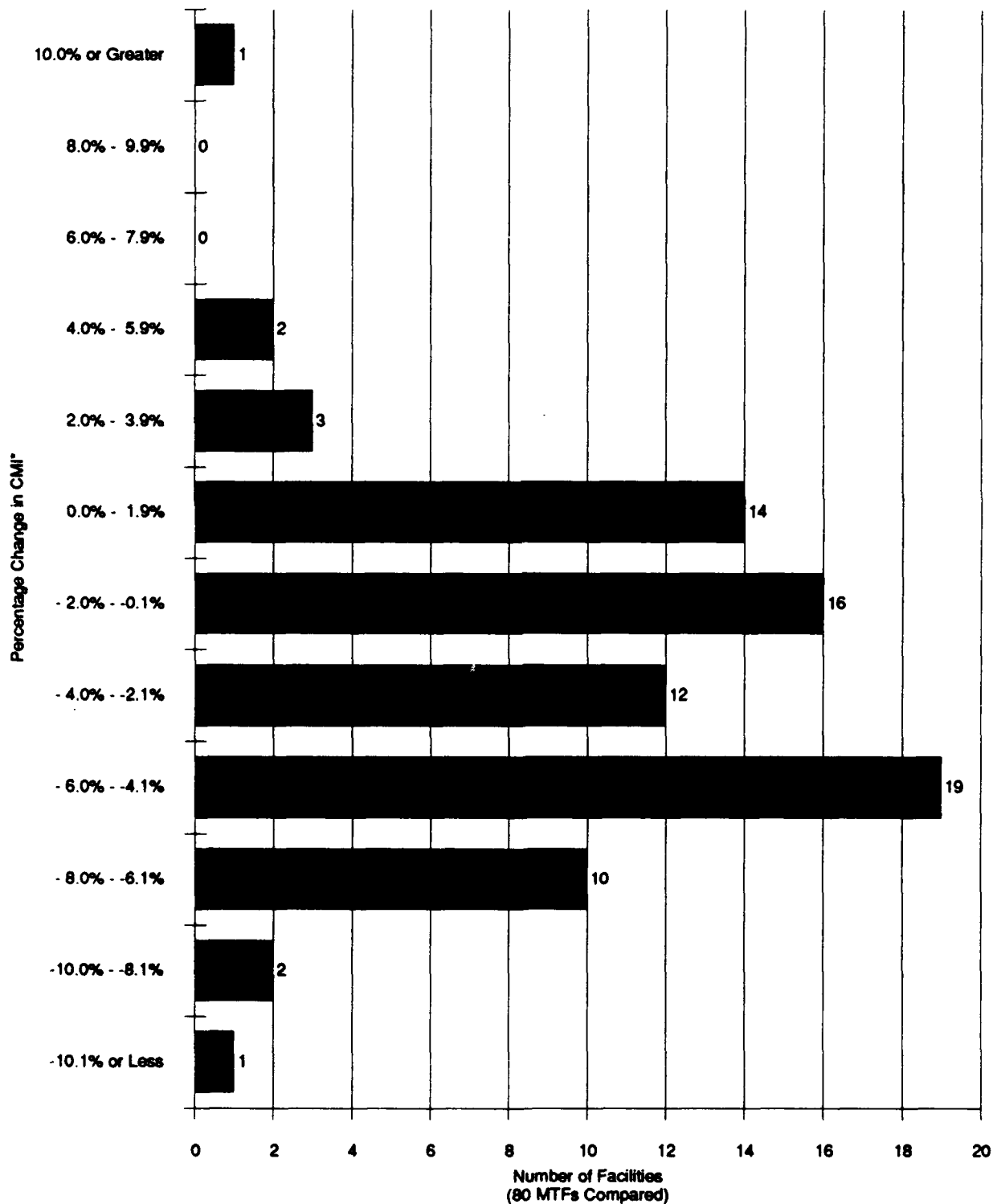
\* A percentage change less than zero indicates that the Version 8 CMI is less than the Version 4 CMI.

**EXHIBIT 4-3: HISTOGRAM OF PERCENTAGE CHANGE IN NAVY FACILITY CMIs USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA**



\* A percentage change less than zero indicates that the Version 8 CMI is less than the Version 4 CMI.

**EXHIBIT 4-4: HISTOGRAM OF PERCENTAGE CHANGE IN USAF FACILITY CMIs USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA**



\* A percentage change less than zero indicates that the Version 8 CMI is less than the Version 4 CMI.

inpatient psychiatric care and the observed increase in credit to psychiatric care causes a substantial increase in credit for these facilities. Lastly, USAF Hosp Hellenikon reported only 92 dispositions in FY90, which is an insufficient basis for computing and comparing workload and case-mix values.

To review the effect on the DRG-based resource allocation models, exhibit 4-5 summarizes the impact of updating to the Version 8 DRG Grouper for each model peer group. Overall, medical centers, CONUS community hospitals, and overseas hospitals all have roughly the same change in CMI. In general, Army and USAF facilities have a 1.0 - 3.2% decrease in credit and CMI, while Navy facilities receive a 2.9% - 4.1% increase in credit. This is due to the fact that the Navy has proportionally more mental health and substance abuse care provided in its MTFs, and case weights for these DRGs increased more relative to other weights. Additionally, credit to Navy facilities decreased less due to changes in the trim point and GLOS values. For additional detailed information, exhibits 4-6 through 4-8 present Version 4 and Version 8 dispositions, RWP, and CMIs for Army, Navy, and Air Force facilities, respectively.

In summary, development and implementation of the Version 8 DRG Grouper case weights, trim points, and GLOS results in a 1.0% decrease in overall workload and the DoD computed CMI. The impact, however, varies by clinical area with a substantial increase in credit observed within the psychiatric care clinic and a relatively greater decrease in Ob/Gyn credit. Thus, MTFs with a disproportionate amount of care within these clinical areas are affected differently than the observed average change. Overall, while changes in credit within particular DRGs, MDCs, and clinical areas vary substantially, the impact at the MTF level is relatively small. Most MTFs have a sufficient mix of care such that compensating effects result in minor changes in assigned credit.



EXHIBIT 4-5: COMPARISON OF FY90 RWP's AND CMI's BY MODEL PEER GROUP USING  
VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA

Model Peer Group	Version 4			Version 8			Percentage Difference in CMI
	Dispositions	RWP's	CMI's	Dispositions	RWP's	CMI's	
Army							
Medical Centers	135,553	158,043	1.1659	135,532	153,000	1.1289	-3.2%
CONUS Community Hosp.	194,957	140,061	0.7184	194,875	136,729	0.7016	-2.3%
Overseas Hospitals	67,151	51,837	0.7719	67,142	50,502	0.7522	-2.6%
All Army Facilities	397,661	349,941	0.8800	397,549	340,231	0.8558	-2.7%
Navy							
Medical Centers	84,620	79,305	0.9372	84,608	82,203	0.9716	3.7%
CONUS Community Hosp.	85,498	63,011	0.7370	85,464	65,551	0.7670	4.1%
Overseas Hospitals	27,469	18,881	0.6874	27,463	19,426	0.7074	2.9%
All Navy Facilities	197,587	161,197	0.8158	197,535	167,180	0.8463	3.7%
A Force							
Medical Centers	96,896	114,715	1.1839	96,887	113,533	1.1718	-1.0%
CONUS Community Hosp.	146,981	98,351	0.6691	146,879	95,587	0.6508	-2.7%
Overseas Hospitals	27,750	19,625	0.7072	27,749	19,319	0.6962	-1.6%
All USAF Facilities	271,627	232,691	0.8567	271,515	228,439	0.8413	-1.8%
DoD							
Medical Centers	317,069	352,063	1.1104	317,027	348,735	1.1000	-0.9%
CONUS Community Hosp.	427,436	301,423	0.7052	427,218	297,867	0.6972	-1.1%
Overseas Hospitals	122,370	90,344	0.7383	122,354	89,248	0.7294	-1.2%
All Facilities	866,875	743,830*	0.8581	866,599	735,850	0.8491	-1.0%

\* Version 4 total RWP's do not match other exhibits due to rounding.

EXHIBIT 4-6: COMPARISON OF FY90 RWP's AND CMIs FOR ARMY FACILITIES USING VERSION 4 VERSUS  
VERSION 8 WEIGHTS AND OUTLIER CRITERIA

DMIS ID	Facility	Version 4		Version 8		Percentage Difference in CMI
		Dispositions	RWPs	Dispositions	RWPs	
22	LETTERMAN AMC-PRESIDIO OF SF	10,942	16,015	10,942	15,746	1.4390
31	FITZSIMONS AMC-DENVER	17,129	23,507	17,128	22,076	1.2889
37	WALTER REED AMC-WASHINGTON	26,276	38,608	26,276	36,249	1.3795
47	EISENHOWER AMC-FT GORDON	15,718	17,678	15,717	17,396	1.1068
52	TRIPLER AMC-FT SHAFTER	23,867	22,776	23,865	23,013	0.9643
108	WILLIAM BEAUMONT AMC-FT BLISS	18,006	17,772	17,992	17,647	0.9808
125	MADIGAN AMC-FT LEWIS	23,615	21,688	23,612	20,873	0.8840
	TOTAL ARMY MEDICAL CENTERS	135,553	158,043	135,532	153,000	1.1289
1	FOX AH-REDSTONE ARSENAL	2,253	1,725	2,253	1,649	0.7318
2	NOBLE AH-FT MCCLELLAN	4,403	3,173	4,403	2,959	0.6720
3	LYSTER AH-FT RUCKER	4,301	2,941	4,301	2,805	0.6522
5	BASSETT ACH-FT WAINWRIGHT	3,863	2,368	3,863	2,293	0.5936
8	BLISS AH-FT HUACHUCA	3,684	2,653	3,684	2,574	0.6988
23	HAYS AH-FT ORD	10,783	7,229	10,783	6,971	0.6465
32	EVANS AH-FT CARSON	11,205	7,481	11,205	7,028	0.6272
48	MARTIN AH-FT BENNING	12,322	10,372	12,256	9,880	0.8062
49	WINN AH-FT STEWART	6,776	4,361	6,776	4,217	0.6224
57	IRWIN AH-FT RILEY	7,288	4,954	7,288	4,876	0.6691
58	MUNSON AH-FT LEAVENWORTH	1,887	1,561	1,887	1,569	0.8315
60	BLANCHFIELD ACH-FT CAMPBELL	9,433	7,839	9,433	7,736	0.8201
61	IRELAND AH-FT KNOX	9,167	6,592	9,165	6,282	0.6854
64	BAYNE-JONES AH-FT POLK	7,234	4,513	7,234	4,482	0.6196
68	KIMBROUGH AH-FT MEADE	4,471	3,806	4,470	3,656	0.8179
70	CUTLER AH-FT DEVENS	2,663	1,874	2,663	1,907	0.7161
75	WOOD AH-FT LEONARD WOOD	9,631	7,076	9,629	6,709	0.6967
81	PATTERSON AH-FT MONKOUTH	1,565	1,169	1,565	1,151	0.7356
82	WALSON AH-FT DIX	4,717	3,717	4,717	3,698	0.7840
86	KELLER AH-WEST POINT	4,694	3,273	4,693	3,241	0.6905
98	WOMACK AH-FT BRAGG	17,973	13,228	17,973	13,211	0.7350
98	REYNOLDS AH-FT SILL	8,691	6,466	8,690	6,144	0.7070
108	MONCRIEF AH-FT JACKSON	8,245	6,899	8,245	7,148	0.8689
110	DARINALL AH-FT HOOD	18,480	11,830	18,472	11,868	0.6425
121	MCDONALD AH-FT EUSTIS	3,968	2,829	3,968	2,835	0.7146
122	KENNER AH-FT LEE	4,502	3,295	4,502	3,302	0.7335
123	DEWITT AH-FT BELVOIR	7,770	5,064	7,770	4,869	0.6267
131	WEED ACH-FT IRWIN	1,825	989	1,825	915	0.5013
204	HAWLEY AH-FT B. HARRISON	1,162	786	1,162	754	0.6486
330	WILCOX AHC-FT DRUM	1	0	.....	.....	.....
	TOTAL ARMY COMUS HOSPITALS	194,957	140,061	194,875	136,729	0.7016
601	34th GENERAL HOSP-AUGSBURG	3,054	2,266	3,054	2,108	0.6901
602	5th GENERAL HOSP-BAD CANNSTATT	5,677	4,460	5,677	4,589	0.8083
603	AH BERLIN	2,385	1,691	2,385	1,557	0.6526
604	2nd FIELD HOSP-BREMERHAVEN	2,196	1,393	2,196	1,290	0.5876
605	97th GENERAL HOSP-FRANKFURT	10,181	7,915	10,176	7,894	0.7757
608	130th STATION HOSP-HEIDELBERG	5,115	3,447	5,115	3,332	0.6514
607	2nd GENERAL HOSP-LANDSTUHL	11,086	10,065	11,086	9,690	0.8741
608	98th GENERAL HOSP-MURNBERG	6,480	5,141	6,478	5,031	0.7766
609	87th EVACUATION HOSP-WURZBURG	5,374	3,127	5,372	3,062	0.5700
611	45th FIELD HOSP-VICENZA	1,130	702	1,130	691	0.6111
612	121st EVACUATION HOSP-SEOUL	6,564	5,135	6,564	5,035	0.7671
613	GORGAS ACH	6,659	5,663	6,659	5,401	0.8110
614	196th STATION HOSP-SHAPE	1,250	834	1,250	824	0.6589
	TOTAL ARMY OVERSEAS HOSPITALS	87,151	51,837	87,142	50,502	0.7522
	TOTAL ALL ARMY FACILITIES	397,661	349,941	397,549	340,232	0.8559

EXHIBIT 4-7: COMPARISON OF FY90 RWP's AND CMIs FOR NAVY FACILITIES USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA

DMIS ID	Facility	Version 4		Version 8		Percentage Difference in CMI		
		Dispositions	RWPs	Dispositions	RWPs			
27	NH OAKLAND	11,871	10,760	11,871	10,445	0.9064	0.8799	-2.9%
29	NH SAN DIEGO	29,104	27,242	29,103	28,511	0.9360	0.9796	4.7%
67	NH BETHESDA	16,032	17,952	16,032	18,310	1.1197	1.1421	2.0%
124	NH PORTSMOUTH	27,613	23,352	27,602	24,937	0.8457	0.9035	6.8%
TOTAL NAVY MEDICAL CENTERS		84,620	79,305	84,608	82,203	0.9372	0.9716	3.7%
7	BRH NAVSTA ADAK	95	53	88	46	0.5568	0.5176	-7.0%
24	NH CAMP PENDLETON	8,939	6,563	8,935	6,510	0.7342	0.7286	-0.8%
25	NH LONG BEACH	3,864	3,689	3,864	3,821	0.9548	0.9888	3.6%
28	NH LEMOORE	1,485	894	1,484	802	0.6019	0.5402	-10.2%
30	BRH MGAGCC TWENTY NINE PALMS	2,143	1,139	2,143	1,099	0.5317	0.5129	-3.5%
35	NH GROTON	1,838	1,422	1,838	1,475	0.7736	0.8023	3.7%
38	NH PENSACOLA	5,992	4,973	5,980	4,867	0.8299	0.8139	-1.9%
39	NH JACKSONVILLE	10,128	7,294	10,127	8,116	0.7202	0.8014	11.3%
40	NH ORLANDO	6,007	4,398	6,007	5,019	0.7322	0.8355	14.1%
56	NH GREAT LAKES	4,067	3,756	4,067	4,032	0.9236	0.9914	7.4%
68	NH PATUXENT RIVER	1,236	620	1,236	579	0.5015	0.4686	-6.6%
91	NH CAMP LEJEUNE	8,679	6,355	8,675	6,579	0.7323	0.7583	3.6%
92	NH CHERRY POINT	2,683	1,375	2,683	1,299	0.5124	0.4840	-5.5%
99	NH PHILADELPHIA	1,812	1,313	1,812	1,478	0.7246	0.8156	12.6%
100	NH NEWPORT	2,374	1,893	2,374	2,042	0.7972	0.8601	7.9%
103	NH CHARLESTON	9,840	7,323	9,840	7,609	0.7442	0.7733	3.9%
104	NH BEAUFORT	2,478	1,844	2,474	1,759	0.7440	0.7110	-4.4%
107	NH MILLINGTON	3,185	2,031	3,185	2,312	0.6378	0.7259	13.8%
118	NH CORPUS CHRISTI	1,888	1,582	1,888	1,505	0.8378	0.7971	-4.9%
126	NH BREMERTON	4,814	3,462	4,814	3,580	0.7192	0.7436	3.4%
127	NH OAK HARBOR	1,951	1,033	1,950	1,023	0.5292	0.5248	-0.8%
TOTAL NAVY CONUS HOSPITALS		85,498	63,011	85,464	65,551	0.7370	0.7670	4.1%
615	NH GUANTANAMO BAY	1,229	754	1,229	813	0.6134	0.6613	7.8%
616	NH ROOSEVELT ROADS-CEIBA	1,889	1,332	1,889	1,390	0.7051	0.7360	4.4%
617	NH NAPLES	2,606	1,575	2,606	1,595	0.6043	0.6121	1.3%
618	NH ROTA	2,169	2,001	2,169	1,951	0.9227	0.8994	-2.5%
619	NH SUBIC BAY	3,806	2,580	3,806	2,683	0.6779	0.7051	4.0%
620	NH GUAM-AGANA	4,238	2,889	4,238	2,969	0.6816	0.7006	2.8%
621	NH OKINAWA	7,136	4,748	7,136	4,934	0.6653	0.6914	3.9%
622	NH YOKOSUKA	3,723	2,640	3,720	2,724	0.7092	0.7322	3.2%
623	NH KEFLAVIK	359	200	359	214	0.5577	0.5948	6.7%
624	BRH USNAF, SIGONELLA	314	163	311	154	0.5175	0.4938	-4.6%
TOTAL NAVY OVERSEAS HOSPITALS		27,469	18,881	27,463	19,426	0.6974	0.7074	2.9%
TOTAL ALL NAVY FACILITIES		197,587	161,197	197,536	167,180	0.8158	0.8463	3.7%

EXHIBIT 4-8: COMPARISON OF FY90 RWP's AND CMIS FOR AIR FORCE FACILITIES USING VERSION 4 VERSUS  
VERSION 8 WEIGHTS AND OUTLIER CRITERIA

DMIS ID	Facility	Version 4		Version 8		Percentage Difference in CMI
		Dispositions	RWP's	Dispositions	RWP's	
14	DAVID GRANT MED CTR-TRAVIS	11,864	12,296	11,863	12,193	-0.8%
55	USAF MED CTR SCOTT	7,244	6,695	7,243	6,374	-4.8%
66	MALCOM GROW MED CTR-ANDREWS	9,375	9,691	9,374	9,036	-6.8%
73	USAF MED CTR KEESLER	11,247	13,295	11,242	12,917	-2.8%
95	USAF MED CTR WRIGHT-PATTERSON	10,319	11,181	10,319	10,932	-2.2%
109	BROOKE AMC (JMMC)-FT SAM HOUSTON	19,427	25,769	19,427	26,108	1.3%
117	WILFORD HALL MED CTR-LACKLAND	27,420	35,788	27,419	35,973	0.5%
	TOTAL USAF MEDICAL CENTERS	96,896	114,715	96,887	113,533	-1.0%
4	AIR UNIVERSITY RGN HOSP-MAXWELL	3,927	2,996	3,927	2,874	-4.1%
6	USAF HOSP ELMENDORF	5,513	3,828	5,512	3,750	-2.0%
9	832nd MED GRP-LUKE	3,735	2,508	3,734	2,464	-1.7%
10	836th MED GRP-DAVIS MONTHAN	3,326	2,206	3,322	2,102	-4.6%
11	USAF HOSP WILLIAMS	1,320	741	1,320	693	-6.5%
12	97th STRAT HOSP-EAKER	1,047	608	1,046	595	-2.0%
13	USAF HOSP LITTLE ROCK	2,059	1,353	2,044	1,317	-2.0%
15	9th STRAT HOSP-BEALE	1,767	1,004	1,767	968	-3.6%
16	USAF HOSP MATHER	3,067	2,244	3,067	2,013	-10.3%
17	93rd STRAT HOSP-CASTLE	2,030	1,088	2,029	1,043	-4.1%
18	1st STRAT HOSP-VANDENBERG	1,955	1,260	1,955	1,263	0.3%
19	USAF HOSP EDWARDS	1,522	903	1,522	841	-6.9%
20	831st MED GRP-GEORGE	2,010	1,169	2,009	1,191	-1.9%
21	22nd STRAT HOSP-MARCH	3,569	2,678	3,569	2,711	1.2%
33	USAF ACADEMY HOSP	4,904	3,380	4,897	3,325	-1.5%
36	USAF HOSP DOVER	1,274	781	1,274	785	0.6%
42	USAF RGN HOSP EGLIN	8,901	6,691	8,880	6,716	0.6%
43	325th MED GRP-TYNDALL	2,481	1,687	2,481	1,548	-8.2%
44	31st MED GRP-HOMESTEAD	2,741	1,884	2,740	1,765	-6.2%
45	56th MED GRP-MACDILL	4,873	3,304	4,873	3,154	-4.5%
46	USAF HOSP PATRICK	905	724	890	683	-4.0%
50	347th MED GRP-MOODY	1,359	988	1,359	938	-5.1%
51	USAF HOSP ROBINS	1,646	1,083	1,645	1,000	-7.6%
53	366th MED GRP-MOUNTAIN HOME	2,022	1,196	2,022	1,192	-0.3%
54	USAF HOSP CHANUTE	1,110	872	1,110	875	0.3%
59	384th STRAT HOSP-MCCONNELL	527	378	518	364	-1.8%
62	2nd STRAT HOSP-BARKSDALE	3,533	2,408	3,533	2,279	-5.3%
63	23rd MED GRP-ENGLAND	1,035	760	1,035	712	-6.3%
66	42nd STRAT HOSP-LORING	1,553	868	1,553	868	0.1%
71	379th STRAT HOSP-WURTSMITH	1,646	1,026	1,640	1,000	-2.2%
72	410th STRAT HOSP-K.T.SAWYER	1,423	788	1,420	756	-3.9%
74	USAF HOSP COLUMBUS	720	527	719	504	-4.3%
76	351st STRAT HOSP-WHITEMAN	2,198	1,135	2,194	1,117	-1.4%
78	EHRLING BERQUIST RGN HOSP-OFFUTT	5,675	3,697	5,675	3,662	-0.9%
79	554th MED GRP-NELLIS	3,339	2,031	3,339	1,982	-2.4%
80	509th STRAT HOSP-PEASE	1,682	1,103	1,682	1,077	-2.4%
83	USAF HOSP KIRTLAND	2,627	2,043	2,627	2,077	1.6%
84	833rd MED GRP-HOLLOMAN	1,766	1,019	1,766	930	-8.8%
85	27th MED GRP-CANNON	1,890	1,154	1,890	1,160	0.5%
87	380th STRAT HOSP-PLATTSBURGH	535	372	535	384	3.4%

--Continued--

EXHIBIT 4-8: COMPARISON OF FY90 RWP's AND CMIs FOR AIR FORCE FACILITIES USING VERSION 4 VERSUS  
 VERSION 8 WEIGHTS AND OUTLIER CRITERIA  
 (Concluded)

DMIS ID	Facility	Version 4		Version 8		Percentage Difference in CMI
		Dispositions	RWP's	Dispositions	RWP's	
88	416th STRAT HOSP-GRIFFISS	1,575	858	1,575	821	-4.4%
90	4th MED GRP-SEYMOUR JOHNSON	1,538	901	1,538	849	-5.8%
93	842nd STRAT HOSP-GRAND FORKS	2,184	1,200	2,180	1,196	-0.1%
94	857th STRAT HOSP-MINOT	2,627	1,815	2,625	1,716	-5.4%
96	USAF HOSP TINKER	3,215	1,914	3,215	1,894	-1.0%
97	USAF HOSP ALTUS	1,446	861	1,446	824	-4.3%
101	363rd MED GRP-SHAW	2,327	1,367	2,327	1,279	-6.5%
102	354th MED GRP-MYRTLE BEACH	570	453	570	436	-3.6%
106	44th STRAT HOSP-ELLSWORTH	3,174	1,796	3,170	1,715	-1.1%
111	USAF HOSP REESE	393	243	393	247	1.9%
112	86th STRAT HOSP-DYESS	2,456	1,459	2,456	1,350	-7.5%
113	USAF RGN HOSP SHEPPARD	4,338	3,995	4,338	4,140	3.7%
114	USAF HOSP LAUGHLIN	788	424	788	416	-2.0%
115	67th MED GRP-BERGSTROM	1,526	1,138	1,526	1,121	-1.4%
116	R. THOMPSON STRAT HOSP-CARSWELL	7,303	6,007	7,303	5,749	-4.3%
119	USAF HOSP HILL	2,447	1,544	2,447	1,505	-2.5%
120	1st MED GRP-L'ANGLEY	4,131	2,257	4,131	2,131	-5.6%
128	92nd STRAT HOSP-FAIRCHILD	3,567	2,457	3,567	2,332	-5.1%
129	90th STRAT HOSP-F.E. WARREN	2,164	1,239	2,164	1,186	-4.3%
	TOTAL USAF CONUS HOSPITALS	146,981	98,351	146,879	95,687	-2.7%
626	USAF HOSP BITBURG	1,367	737	1,367	719	-2.4%
627	USAF HOSP HAHN	1,434	746	1,434	708	-5.1%
628	USAF RGN MED CTR WIESBADEN	3,377	2,858	3,377	2,654	-7.2%
629	USAF HOSP LAJES	968	527	968	491	-6.8%
630	USAF HOSP TORREJON	1,859	1,151	1,859	1,134	-1.5%
631	USAF HOSP HELLENIKON	92	63	92	80	27.8%
632	USAF HOSP UPPER HEYFORD	2,103	1,237	2,103	1,261	2.0%
633	USAF RGN HOSP LAKENHEATH	3,020	1,934	3,019	2,000	3.4%
635	USAF HOSP INCIRLIK	1,216	832	1,216	809	-2.8%
636	13th MED CENTER-CLARK AB	7,288	6,413	7,288	6,287	-2.0%
637	8th MED GRP-KUNSON AB	219	197	219	207	5.1%
638	51st MED GRP-OSAN AB	824	550	824	524	-4.7%
639	432nd MED GRP-MISAWA	1,847	1,000	1,847	1,058	5.8%
640	475th MED GRP-YOKOTA AB	2,136	1,381	2,136	1,388	0.5%
	TOTAL USAF OVERSEAS HOSPITALS	27,750	19,625	27,749	19,319	-1.6%
	TOTAL ALL USAF FACILITIES	271,627	232,691	271,515	228,439	-1.8%



## APPENDIX A

This appendix contains two exhibits. The exhibits provide computed workload in terms of relative weighted products (RWPs) and case-mix indices (CMI) for each diagnosis related group (DRG). Two methods were used to compute RWPs - one using the Version 4 DRG Grouper and associated case weights with direct care computed geometric means of length of stay (GLOS) and trim points and the other using Version 8 DRG Grouper case weights and CHAMPUS published trim points and GLOS. The CHAMPUS trim points and GLOS were obtained from the Federal Register<sup>1</sup> and were also provided in the CHAMPUS Policy Manual<sup>2</sup>. Exhibit A-1 presents the results in DRG order and exhibit A-2 presents the results in order of the percentage change in CMI.

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<sup>1</sup>CHAMPUS weights, thresholds, and GLOS were published in the Federal Register, Vol. 55, No. 214, Monday, November 5, 1990, pp. 46547-46557. Note that long-stay threshold (A) was used as applies to hospitals other than pediatric hospitals.

<sup>2</sup>CHAMPUS 6010.47-M, CHAMPUS Policy Manual, Volume II (Program Policy), Chapter 3, Addendum 7, 24 January 1991, pp 1-22.

EXHIBIT A-1: COMPARISON OF FY90 RWP'S AND CMIS BY DRG USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA (PRESENTED IN DRG ORDER)

DRG	DESCRIPTION	Version 4		Version 8		Percentage Difference in CMIs
		Dispositions	RWP's	Dispositions	RWP's	
1	CRANIOTOMY AGE >17 EXCEPT FOR TRAUMA	656	2,829	4,3119	3,119	4.8892
2	CRANIOTOMY FOR TRAUMA AGE >17	178	1,146	6,4386	959	6.9970
3	CRANIOTOMY AGE 0-17	227	646	2,8443	722	3.2084
4	SPINAL PROCEDURES	346	902	2,6082	879	2.6167
5	EXTRACRANIAL VASCULAR PROCEDURES	463	842	1,8190	896	1.9352
6	CARPAL TUNNEL RELEASE	2,259	1,429	0,6325	1,516	0.6710
7	PERIPH & CRANIAL NERVE & OTHER NERV SYST PROC W CC	180	1,436	7,9774	343	2.9608
8	PERIPH & CRANIAL NERVE & OTHER NERV SYST PROC W/O CC	1,581	1,788	1,1308	1,552	0.9648
9	SPINAL DISORDERS & INJURIES	222	503	2,2875	601	2.8759
10	NERVOUS SYSTEM NEOPLASMS W CC	288	399	1,3840	457	1.7193
11	NERVOUS SYSTEM NEOPLASMS W/O CC	313	373	1,1829	423	1.2525
12	DEGENERATIVE NERVOUS SYSTEM DISORDERS	689	1,287	1,9237	670	1.8787
13	MULTIPLE SCLEROSIS & CEREBELLAR ATAXIA	502	575	1,1450	500	0.9903
14	SPECIFIC CEREBROVASCULAR DISORDERS EXCEPT TIA	2,056	3,188	1,5485	2,046	1.5955
15	TRANSIENT ISCHEMIC ATTACKS AND PRECEREBRAL OCCLUSIONS	1,350	1,041	0,7714	985	0.7372
16	NONSPECIFIC CEREBROVASCULAR DISORDERS W CC	113	186	1,4696	104	1.7631
17	NONSPECIFIC CEREBROVASCULAR DISORDERS W/O CC	191	184	0,8612	204	1.0346
18	CRANIAL & PERIPHERAL NERVE DISORDERS W CC	414	624	1,5075	260	0.9600
19	CRANIAL & PERIPHERAL NERVE DISORDERS W/O CC	1,441	1,233	0,8557	1,468	0.7657
20	NERVOUS SYSTEM INFECTION EXCEPT VIRAL MENINGITIS	557	775	1,3911	651	1.8379
21	VIRAL MENINGITIS	1,007	597	0,5928	596	0.6358
22	HYPERTENSIVE ENCEPHALOPATHY	105	70	0,6976	82	0.7850
23	NONTRAUMATIC STUPOR & COMA	148	180	1,2326	147	1.0609
24	SEIZURE & HEADACHE AGE > 17 W CC	1,089	1,248	1,1673	985	0.9824
25	SEIZURE & HEADACHE AGE > 17 W/O CC	4,393	3,023	0,6881	4,483	0.5779
26	SEIZURE & HEADACHE AGE 0-17	2,249	1,239	0,5510	2,234	0.5460
27	TRAUMATIC STUPOR & COMA, COMA > 1 HR	539	1,521	2,8220	498	1.183
28	TRAUMATIC STUPOR & COMA, COMA < 1 HR AGE > 17 W CC	468	861	1,8876	279	1.4026
29	TRAUMATIC STUPOR & COMA, COMA < 1 HR AGE > 17 W/O CC	1,141	1,006	0,8812	1,283	1.656
30	TRAUMATIC STUPOR & COMA < 1 HR AGE 0-17	812	395	0,4738	800	0.5840
31	CONCUSSION AGE > 17 W CC	188	181	0,9825	137	0.6342
32	CONCUSSION AGE > 17 W/O CC	856	387	0,4518	903	0.4603
33	CONCUSSION AGE 0-17	344	90	0,2609	346	0.3081
34	OTHER DISORDERS OF NERVOUS SYSTEM W CC	484	1,058	2,1825	421	2.2599
35	OTHER DISORDERS OF NERVOUS SYSTEM W/O CC	995	914	0,9188	1,055	1.2979
36	RETINAL PROCEDURES	496	452	0,9308	475	1.2630
37	ORBITAL PROCEDURES	289	273	1,0130	319	1.1388
38	PRIMARY IRIS PROCEDURES	74	40	0,5431	32	0.4297
39	LENS PROCEDURES WITH OR WITHOUT VITRECTOMY	6,331	4,953	0,7824	6,287	4.975
40	EXTRAOCULAR PROCEDURES EXCEPT ORBIT AGE > 17	3,046	1,798	0,5866	3,105	0.6433
41	EXTRAOCULAR PROCEDURES EXCEPT ORBIT AGE 0-17	1,553	738	0,4737	1,552	0.5151
42	INTRAOCULAR PROCEDURES EXCEPT RETINA, IRIS & LENS	796	681	0,8558	806	0.9654
43	HYPIHEMA	289	79	0,2820	270	0.2775
44	ACUTE MAJOR EYE INFECTIONS	507	254	0,5019	501	0.4759
45	NEUROLOGICAL EYE DISORDERS	361	218	0,6202	352	0.6848
46	OTHER DISORDERS OF THE EYE AGE > 17 W CC	333	254	0,7631	298	0.8181
47	OTHER DISORDERS OF THE EYE AGE > 17 W/O CC	1,621	1,124	0,6932	1,670	0.5101
48	OTHER DISORDERS OF THE EYE AGE 0-17	429	236	0,5469	398	0.4309
49	MAJOR HEAD & NECK PROCEDURES	271	928	3,4251	203	2.7763
50	SIALOADENECTOMY	449	372	0,8279	450	1.0004
51	SALIVARY GLAND PROCEDURES EXCEPT SIALOADENECTOMY	67	58	0,8694	77	0.9230
52	CLEFT LIP & PALATE REPAIR	259	178	0,6883	298	0.7344
53	SINUS & MASTOID PROCEDURES AGE > 17	1,978	1,731	0,8759	2,033	0.8766
54	SINUS & MASTOID PROCEDURES AGE 0-17	240	195	0,8119	205	0.9935
55	MISCELLANEOUS EAR, NOSE & THROAT PROCEDURES	4,682	2,640	0,5638	3,221	0.6645

-Continued-



EXHIBIT A-1: COMPARISON OF FY90 RWP AND CMIs BY DRG USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA (PRESENTED IN DRG ORDER)  
(Continued)

DRG	DESCRIPTION	Version 4		Version 8		Percentage Difference in CMI
		Dispositions	RWPs	Dispositions	RWPs	
56	RHINOPLASTY	4,180	2,199	5,466	3,353	16.6%
57	T & A PROC, EXCEPT TONSILLECTOMY & OR ADENOIDECTOMY ONLY, AGE >1	658	365	766	516	21.3%
58	T & A PROC, EXCEPT TONSILLECTOMY & OR ADENOIDECTOMY ONLY, AGE 0-	2,174	847	2,273	1,008	13.9%
59	TONSILLECTOMY & OR ADENOIDECTOMY ONLY, AGE >17	2,269	911	2,273	1,021	11.9%
60	TONSILLECTOMY & OR ADENOIDECTOMY ONLY, AGE 0-17	3,138	1,084	3,146	1,161	6.8%
61	MYRINGOTOMY WITH TUBE INSERTION AGE >17	146	195	215	186	-35.0%
62	MYRINGOTOMY WITH TUBE INSERTION AGE 0-17	5,932	2,477	5,998	3,671	46.6%
63	OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES	461	582	3,468	4,249	-3.0%
64	EAR, NOSE, MOUTH & THROAT MALIGNANCY	487	771	556	744	-15.6%
65	DISEQUILIBRIUM	827	474	825	426	-9.9%
66	EPISTAXIS	237	131	236	99	-24.1%
67	EPIGLOTTITIS	52	50	52	53	4.2%
68	OTITIS MEDIA & URI AGE >17 W/CC	1,497	1,112	1,440	951	-11.1%
69	OTITIS MEDIA & URI >17 W/O CC	10,377	5,182	10,446	5,052	-3.2%
70	OTITIS MEDIA & URI AGE 0-17	4,060	1,741	3,918	1,588	-5.4%
71	LARYNGOTRACHEITIS	1,084	415	1,081	367	-11.3%
72	NASAL TRAUMA & DEFORMITY	488	230	493	254	9.5%
73	OTHER EAR, NOSE, MOUTH & THROAT DIAGNOSES AGE >17	1,465	1,186	1,478	803	-33.0%
74	OTHER EAR, NOSE, MOUTH & THROAT DIAGNOSES AGE 0-17	880	500	820	424	-8.0%
75	MAJOR CHEST PROCEDURES	1,829	5,634	1,134	4,188	6.8%
76	OTHER RESP SYSTEM O.R. PROCEDURES W/CC	311	1,176	3,781	1,623	-26.5%
77	OTHER RESP SYSTEM O.R. PROCEDURES W/O CC	311	698	446	701	-23.3%
78	PULMONARY EMBOLISM	363	547	351	531	0.4%
79	RESPIRATORY INFECTIONS & INFLAMMATIONS AGE >17 W/CC	580	1,704	2,938	1,070	-18.2%
80	RESPIRATORY INFECTIONS & INFLAMMATIONS AGE >17 W/O CC	244	362	297	364	-23.5%
81	RESPIRATORY INFECTIONS & INFLAMMATIONS AGE 0-17	96	155	90	194	34.2%
82	RESPIRATORY NEOPLASMS	2,205	3,532	2,204	3,779	7.0%
83	MAJOR CHEST TRAUMA W/CC	102	307	84	107	-57.5%
84	MAJOR CHEST TRAUMA W/O CC	92	66	96	61	-15.0%
85	PLEURAL EFFUSION W/CC	350	514	321	753	59.8%
86	PLEURAL EFFUSION W/O CC	173	163	204	182	-6.6%
87	PULMONARY EDEMA & RESPIRATORY FAILURE	157	544	231	514	-35.8%
88	CHRONIC OBSTRUCTIVE PULMONARY DISEASE	3,955	5,819	3,998	4,528	-23.0%
89	SIMPLE PNEUMONIA & PLEURISY AGE >17 W/CC	3,331	5,364	2,944	4,155	-12.4%
90	SIMPLE PNEUMONIA & PLEURISY AGE >17 W/O CC	3,692	3,445	3,970	3,260	-12.0%
91	SIMPLE PNEUMONIA & PLEURISY AGE 0-17	3,504	2,314	3,400	2,221	-1.1%
92	INTERSTITIAL LUNG DISEASE W/CC	390	630	355	566	-1.3%
93	INTERSTITIAL LUNG DISEASE W/O CC	335	291	358	324	4.0%
94	PNEUMOTHORAX W/CC	211	358	182	275	-10.9%
95	PNEUMOTHORAX W/O CC	613	398	627	415	2.0%
96	BRONCHITIS & ASTHMA AGE >17 W/CC	1,556	1,866	1,375	1,448	-12.2%
97	BRONCHITIS & ASTHMA AGE >17 W/O CC	4,342	3,795	4,368	3,098	-18.9%
98	BRONCHITIS & ASTHMA AGE 0-17	6,914	3,737	6,853	3,801	2.6%
99	RESPIRATORY SIGNS & SYMPTOMS W/CC	665	651	622	607	-0.4%
100	RESPIRATORY SIGNS & SYMPTOMS W/O CC	1,325	900	1,428	850	-12.4%
101	OTHER RESPIRATORY SYSTEM DIAGNOSES W/CC	1,018	1,713	556	701	-25.0%
102	OTHER RESPIRATORY SYSTEM DIAGNOSES W/O CC	1,845	1,392	1,788	1,197	-20.9%
103	HEART TRANSPLANT	0	0	0	0	---
104	CARDIAC VALVE PROCEDURE W/CC	122	881	125	1,257	39.4%
105	CARDIAC VALVE PROCEDURE W/O CC	202	1,242	195	1,329	10.9%
106	CORONARY BYPASS W/CC	654	3,935	653	4,133	5.2%
107	CORONARY BYPASS W/O CC	702	3,594	663	3,568	5.1%
108	OTHER CARDIOTHORACIC PROCEDURES	147	562	189	1,129	56.3%
109	NO LONGER VALID	249	1,352	---	---	---
110	MAJOR CARDIOVASCULAR PROCEDURES W/CC	532	2,134	401	1,852	15.1%

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EXHIBIT A-1: COMPARISON OF FY90 RWPs AND CMIs BY DRG USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA (PRESENTED IN DRG ORDER)  
(Continued)

DRG	DESCRIPTION	Version 4		Version 8		Percentage Difference in CMI	
		Dispositions	RWPs	Dispositions	RWPs		CMIs
111	MAJOR CARDIOVASCULAR PROCEDURES W/O CC	283	804	2,842	1,007	2,970	4.5%
112	PERCUTANEOUS CARDIOVASCULAR PROCEDURES	2,022	5,085	2,514	3,953	2,408	-4.2%
113	AMPUTATION FOR CIRC SYSTEM DISORDERS EXCEPT UPPER LIMB & TOE	130	553	4,252	173	886	20.4%
114	UPPER LIMB & TOE AMPUTATION FOR CIRC SYSTEM DISORDERS	75	172	2,294	77	158	-10.3%
115	PERM CARDIAC PACEMAKER IMPLANT W/AMI, HEART FAILURE OR SHOCK	5	24	4,176	1	5	0.0%
116	PERM CARDIAC PACEMAKER IMPLANT W/AMI, HEART FAILURE OR SHOCK	80	260	3,251	81	3,207	-1.6%
117	CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT	96	167	1,741	52	74	-18.4%
118	CARDIAC PACEMAKER DEVICE REPLACEMENT	21	45	2,182	181	488	24.7%
119	VEIN LIGATION & STRIPPING	1,131	979	0,965	1,132	879	-10.3%
120	OTHER CIRCULATORY SYSTEM O.R. PROCEDURES	245	1,035	4,238	196	656	-20.8%
121	CIRCULATORY DISORDERS W/AMI & C.V. COMP DISCH ALIVE	926	1,740	1,879	566	1,061	-0.3%
122	CIRCULATORY DISORDERS W/AMI W/O C.V. COMP DISCH ALIVE	2,970	3,713	1,250	1,780	2,253	1.3%
123	CIRCULATORY DISORDERS W/AMI, EXPIRED	276	991	3,503	173	493	-20.6%
124	CIRCULATORY DISORDERS EXCEPT AMI, W/CARD CATH & COMPLEX DIAG	1,284	1,878	1,482	1,361	1,439	-2.0%
125	CIRCULATORY DISORDERS EXCEPT AMI, W/CARD CATH W/O COMPLEX DIAG	5,888	5,734	0,978	6,116	0,950	-2.4%
126	ACUTE & SUBACUTE ENDOCARDITIS	95	330	3,477	97	260	-23.0%
127	HEART FAILURE & SHOCK	2,997	3,832	1,276	3,081	3,943	-0.2%
128	DEEP VEIN THROMBOPHLEBITIS	192	174	0,904	192	169	-3.1%
129	CARDIAC ARREST, UNEXPLAINED	141	727	5,155	145	319	-57.3%
130	PERIPHERAL VASCULAR DISORDERS W/CC	1,331	1,524	1,452	1,056	1,357	12.2%
131	PERIPHERAL VASCULAR DISORDERS W/O CC	1,581	1,230	0,771	1,898	1,325	-10.3%
132	ATHEROSCLEROSIS W/CC	1,588	1,787	1,181	1,664	2,560	15.3%
133	ATHEROSCLEROSIS W/O CC	1,120	1,116	0,966	1,999	2,280	13.5%
134	HYPERTENSION	1,586	1,092	0,682	1,528	939	-10.7%
135	CARDIAC CONGENITAL & VALVULAR DISORDERS AGE >17 W/CC	291	286	1,016	251	474	85.6%
136	CARDIAC CONGENITAL & VALVULAR DISORDERS AGE >17 W/O CC	239	175	0,716	278	189	-17.0%
137	CARDIAC CONGENITAL & VALVULAR DISORDERS AGE 0-17	375	396	1,064	319	459	36.2%
138	CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W/CC	2,768	2,584	0,937	1,891	1,753	-0.7%
139	CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W/O CC	2,330	1,828	0,680	3,026	1,813	-14.2%
140	ANGINA PECTORIS	3,128	2,364	0,761	3,219	2,284	-6.2%
141	SYNCOPE & COLLAPSE W/CC	953	706	0,740	751	526	-5.5%
142	SYNCOPE & COLLAPSE W/O CC	1,318	801	0,876	1,499	843	-7.4%
143	CHEST PAIN	7,703	5,284	0,680	7,772	4,665	-12.5%
144	OTHER CIRCULATORY DIAGNOSES WITH CC	816	1,157	1,475	904	1,300	1.4%
145	OTHER CIRCULATORY DIAGNOSES W/O CC	693	652	0,942	762	684	-4.7%
146	RECTAL RESECTION W/CC	186	694	3,735	81	256	-15.4%
147	RECTAL RESECTION W/O CC	176	436	2,477	113	215	-23.2%
148	MAJOR SMALL & LARGE BOWEL PROCEDURES W/CC	1,683	6,526	3,877	1,442	5,398	-3.5%
149	MAJOR SMALL & LARGE BOWEL PROCEDURES W/O CC	1,138	2,424	2,130	1,412	2,751	-8.6%
150	PERITONEAL ADHESOLYSIS W/CC	288	706	2,452	234	660	15.1%
151	PERITONEAL ADHESOLYSIS W/O CC	479	728	1,514	531	668	-17.0%
152	MINOR SMALL & LARGE BOWEL PROCEDURES W/CC	1,059	3,202	3,026	55	129	-22.6%
153	MINOR SMALL & LARGE BOWEL PROCEDURES W/O CC	3,062	5,916	1,913	268	308	-40.1%
154	STOMACH, ESOPHAGEAL & DUODENAL PROCEDURES AGE >17 W/CC	662	2,654	4,091	582	2,414	7.2%
155	STOMACH, ESOPHAGEAL & DUODENAL PROCEDURES AGE >17 W/O CC	814	1,249	2,039	644	1,191	-9.1%
156	STOMACH, ESOPHAGEAL & DUODENAL PROCEDURES AGE 0-17	273	364	1,339	206	315	15.3%
157	ANAL AND STOMAL PROCEDURES W/CC	662	732	1,105	426	397	-15.7%
158	ANAL AND STOMAL PROCEDURES W/O CC	4,001	2,614	0,653	4,245	2,463	-11.2%
159	HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL AGE >17 W/CC	523	657	1,265	353	423	-4.5%
160	HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL AGE >17 W/O CC	2,222	1,875	0,840	2,384	1,901	-5.5%
161	INGUINAL & FEMORAL HERNIA PROCEDURES AGE >17 W/CC	1,480	1,317	0,606	887	503	-17.7%
162	INGUINAL & FEMORAL HERNIA PROCEDURES AGE >17 W/O CC	9,772	5,504	0,563	10,552	5,815	-2.2%
163	HERNIA PROCEDURES AGE 0-17	3,219	1,520	0,472	3,191	1,462	-3.6%
164	APPENDECTOMY W/COMPLICATED PRINCIPAL DIAG W/CC	244	580	2,377	203	426	-11.8%
165	APPENDECTOMY W/COMPLICATED PRINCIPAL DIAG W/O CC	734	907	1,258	778	929	-3.4%

--Continued--

EXHIBIT A-1: COMPARISON OF FY90 RWFs AND CMIs BY DRG USING VERSION 4 VERSUS VERSION 8  
WEIGHTS AND OUTLIER CRITERIA (PRESENTED IN DRG ORDER)  
(Continued)

DRG	DESCRIPTION	Version 4		Version 8		Percentage Difference in CMI
		Dispositions	RWFs	Dispositions	RWFs	
166	APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W/CC	309	403	292	312	1.0692
167	APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W/O CC	4,063	2,921	4,082	2,933	0.7185
168	MOUTH PROCEDURES W/CC	645	1,440	135	140	1.0343
168	MOUTH PROCEDURES W/O CC	4,062	4,235	1,306	866	0.6631
170	OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W/CC	219	767	185	627	3.3880
170	OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W/O CC	775	1,068	721	769	1.0661
172	DIGESTIVE MALIGNANCY W/CC	848	1,505	718	1,401	1.9507
173	DIGESTIVE MALIGNANCY W/O CC	479	746	715	826	1.1551
174	G.I. HEMORRHAGE W/CC	1,906	2,279	1,584	1,675	1.0574
175	G.I. HEMORRHAGE W/O CC	1,931	1,438	2,529	1,621	0.6408
176	COMPLICATED PEPTIC ULCER	320	403	625	627	1.0026
177	UNCOMPLICATED PEPTIC ULCER W/CC	369	346	269	238	0.8834
178	UNCOMPLICATED PEPTIC ULCER W/O CC	1,049	770	970	0.5983	0.5983
179	INFLAMMATORY BOWEL DISEASE	1,191	1,401	1,220	1,515	1.2420
180	G.I. OBSTRUCTION W/CC	617	667	443	458	1.0289
181	G.I. OBSTRUCTION W/O CC	851	523	1,041	603	0.5791
182	ESOPHAGITIS, GASTROENT. & MISC DIGEST DISORDERS AGE >17 W/CC	6,374	5,453	5,330	3,885	0.7289
183	ESOPHAGITIS, GASTROENT. & MISC DIGEST DISORDERS AGE >17 W/O CC	18,650	11,892	22,079	11,961	0.5418
184	ESOPHAGITIS, GASTROENT. & MISC DIGEST DISORDERS AGE 0-17	5,559	2,053	5,477	1,998	0.3648
185	DENTAL & ORAL DIS EXCEPT EXTRACTIONS & RESTORATIONS, AGE >17	1,425	1,744	1,335	1,047	0.7842
186	DENTAL & ORAL DIS EXCEPT EXTRACTIONS & RESTORATIONS, AGE 0-17	439	206	461	186	0.4024
187	DENTAL EXTRACTIONS & RESTORATIONS	14,391	7,584	14,400	9,378	0.6512
188	OTHER DIGESTIVE SYSTEM DIAGNOSES AGE >17 W/CC	1,950	2,701	1,008	1,010	1.0022
189	OTHER DIGESTIVE SYSTEM DIAGNOSES AGE >17 W/O CC	4,951	3,830	6,152	3,083	0.5012
190	OTHER DIGESTIVE SYSTEM DIAGNOSES AGE 0-17	694	322	654	257	0.3824
191	PANCREAS, LIVER & SHUNT PROCEDURES W/CC	175	1,090	212	1,399	6.6006
192	PANCREAS, LIVER & SHUNT PROCEDURES W/O CC	156	1,009	117	363	3.1056
193	BILIARY TRACT PROC EXCEPT ONLY TOT CHOLECYST W OR W/O C.D.E. W	138	587	139	608	4.3757
194	BILIARY TRACT PROC EXCEPT ONLY TOT CHOLECYST W OR W/O C.D.E. W	103	221	102	179	1.7502
195	TOTAL CHOLECYSTECTOMY W C.D.E. W/CC	341	742	274	518	1.8911
196	TOTAL CHOLECYSTECTOMY W C.D.E. W/O CC	163	249	199	287	1.4406
197	TOTAL CHOLECYSTECTOMY W/O C.D.E. W/CC	2,146	3,405	1,161	1,794	1.5452
198	TOTAL CHOLECYSTECTOMY W/O C.D.E. W/O CC	4,717	5,405	5,607	5,556	0.9908
199	HEPATOBIARY DIAGNOSTIC PROCEDURE FOR MALIGNANCY	58	119	176	176	3.0368
200	HEPATOBIARY DIAGNOSTIC PROCEDURE FOR NON-MALIGNANCY	174	637	166	369	2.2220
201	OTHER HEPATOBIARY OR PANCREAS O.R. PROCEDURES	100	383	104	315	3.0323
202	CIRRHOSIS & ALCOHOLIC HEPATITIS	666	1,023	685	1,213	1.7799
203	MALIGNANCY OF HEPATOBIARY SYSTEM OR PANCREAS	572	838	593	849	1.4325
204	DISORDERS OF PANCREAS EXCEPT MALIGNANCY	1,361	1,423	1,404	1,677	1.1943
205	DISORDERS OF LIVER EXC MALIGN. CIRRH, ALC HEPA W/CC	689	1,293	656	1,087	1.6720
206	DISORDERS OF LIVER EXC MALIGN. CIRRH, ALC HEPA W/O CC	1,118	908	1,131	681	0.8025
207	DISORDERS OF THE BILIARY TRACT W/CC	482	460	407	419	1.0296
208	DISORDERS OF THE BILIARY TRACT W/O CC	1,047	682	1,179	733	0.8217
209	MAJOR JOINT & LIMB REATTACHMENT PROCEDURES	1,100	3,394	1,503	4,742	3.1552
210	HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT AGE >17 W/CC	564	2,065	299	915	3.0593
211	HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT AGE >17 W/O CC	528	1,115	588	1,209	2.0211
212	HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT AGE 0-17	220	384	214	369	1.8182
213	AMPUTATIONS FOR MUSCULOSKELETAL SYSTEM & CONN TISSUE DISORDERS	105	286	107	369	3.4523
214	BACK & NECK PROCEDURES W/CC	575	1,613	428	1,122	2.8212
215	BACK & NECK PROCEDURES W/O CC	2,874	4,601	3,010	4,202	1.3960
216	BIOPSIES OF MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE	410	789	420	892	2.1227
217	WIND DEBRID & SKN GRFT EXC HAND, FOR MUSCULOSKELET & CONN. TISS DIS	1,066	3,472	690	2,792	4.0467
218	LOWER EXTREM & HUMER PROC EXCEPT HIP, FOOT, FEMUR AGE >17 W/CC	349	758	270	506	1.8730
219	LOWER EXTREM & HUMER PROC EXCEPT HIP, FOOT, FEMUR AGE >17 W/O	3,321	3,917	3,396	3,916	1.1531
220	LOWER EXTREM & HUMER PROC EXCEPT HIP, FOOT, FEMUR AGE 0-17	511	462	509	417	0.8192

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EXHIBIT A-1: COMPARISON OF FY90 RFPs AND CMIs BY DRG USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA (PRESENTED IN DRG ORDER)  
(Continued)

DRG	DESCRIPTION	Version 4		Version 8		Percentage Difference in CMI
		Dispositions	RFPs	Dispositions	RFPs	
221	KNEE PROCEDURES W CC	294	647	243	511	2.1025
222	KNEE PROCEDURES W/O CC	9,575	10,280	11,644	14,233	1.2223
223	MAJOR SHOULDER/ELBOW PROC. OR OTHER UPPER EXTREMITY PROC WITH C	1,645	2,111	1,304	1,256	0.9635
224	SHOULDER, ELBOW OR FOREARM PROC. EXC MAJOR JOINT PROC. W/O CC	2,792	2,451	2,119	1,836	0.8663
225	FOOT PROCEDURES	5,463	4,484	5,795	4,556	0.7863
226	SOFT TISSUE PROCEDURES W CC	221	313	165	259	1.5721
227	SOFT TISSUE PROCEDURES W/O CC	3,020	2,603	3,294	2,669	0.8194
228	MAJOR THUMB OR JOINT PROC. OR OTH HAND OR WRIST PROC WITH CC	826	861	833	796	0.9556
229	HAND OR WRIST PROC, EXCEPT MAJOR JOINT PROC, W/O CC	6,596	5,376	6,587	4,622	0.7017
230	LOCAL EXCISION & REMOVAL OF INT FIX DEVICES OF HIP & FEMUR	702	674	574	518	0.9024
231	LOCAL EXCISION & REMOVAL OF INT FIX DEVICES EXCEPT HIP & FEMUR	9,352	10,639	7,986	8,240	1.0318
232	ARTHROSCOPY	3,366	2,594	3,743	3,868	1.0333
233	OTHER MUSCULOSKELET SYS & CONN TISS O.R. PROC W CC	304	825	143	472	3.3025
234	OTHER MUSCULOSKELET SYS & CONN TISS O.R. PROC W/O CC	2,101	2,460	1,825	2,039	1.1175
235	FRACTURES OF FEMUR	341	522	329	408	1.2350
236	FRACTURES OF HIP & PELVIS	478	520	442	513	1.1617
237	SPRAINS, STRAINS, & DISLOCATIONS OF HIP, PELVIS & THIGH	146	141	143	90	0.6317
238	OSTEOMYELITIS	258	434	268	378	1.4108
239	PATHOLOGICAL FRACTURES & MUSCULOSKELETAL & CONN TISS MALIGNCY	799	1,136	811	1,266	1.5855
240	CONNECTIVE TISSUE DISORDERS W CC	441	753	411	686	1.6688
241	CONNECTIVE TISSUE DISORDERS W/O CC	794	743	846	619	0.7316
242	SEPTIC ARTHRITIS	134	165	138	188	1.4591
243	MEDICAL BACK PROBLEMS	9,496	8,065	9,499	6,405	0.6743
244	BONE DISEASES & SEPTIC ARTHROPATHIES W CC	342	320	232	351	1.5141
245	BONE DISEASES & SEPTIC ARTHROPATHIES W/O CC	772	524	889	803	0.9035
246	NON-SPECIFIC ARTHROPATHIES	200	132	200	139	0.6945
247	SIGNS & SYMPTOMS OF MUSCULOSKELETAL SYSTEM & CONN TISSUE	1,786	1,466	1,919	1,191	0.6549
248	TENDONITIS, MYOSITIS & BURSTITIS	1,316	910	1,404	882	0.6282
249	AFTERCARE, MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE	805	978	858	731	0.8518
250	FX SPIN, STRN & DISL OF FOREARM, HAND, FOOT AGE >17 W CC	126	149	81	81	1.0034
251	FX SPIN, STRN & DISL OF FOREARM, HAND, FOOT AGE >17 W/O CC	1,392	875	1,469	969	0.6594
252	FX SPIN, STRN & DISL OF FOREARM, HAND, FOOT AGE 0-17	773	269	780	290	0.3715
253	FX SPIN, STRN & DISL OF UPARM, LOWLEG EX FOOT AGE >17 W CC	384	469	317	400	1.2613
254	FX SPIN, STRN & DISL OF UPARM, LOWLEG EX FOOT AGE >17 W/O CC	3,533	2,186	3,613	2,030	0.5619
255	FX SPIN, STRN & DISL OF UPARM, LOWLEG EX FOOT AGE 0-17	728	302	729	305	0.4179
256	OTHER MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE DIAGNOSES	2,186	1,908	2,320	1,690	0.7283
257	TOTAL MASTECTOMY FOR MALIGNANCY W CC	562	681	422	514	1.2173
258	TOTAL MASTECTOMY FOR MALIGNANCY W/O CC	884	893	1,016	948	0.9331
259	SUBTOTAL MASTECTOMY FOR MALIGNANCY W CC	211	368	117	211	1.7987
260	SUBTOTAL MASTECTOMY FOR MALIGNANCY W/O CC	663	591	759	579	0.7632
261	BREAST PROC FOR NON-MALIGNANCY EXCEPT BIOPSY & LOCAL EXCISION	2,350	2,232	2,517	2,468	0.9798
262	BREAST BIOPSY & LOCAL EXCISION FOR NON-MALIGNANCY	6,056	3,418	6,058	3,338	0.5511
263	SKIN GRAFT &/OR DEBRID FOR SKIN ULCER OR CELLULITIS W CC	211	787	123	516	4.1915
264	SKIN GRAFT &/OR DEBRID FOR SKIN ULCER OR CELLULITIS W/O CC	194	411	145	302	2.0803
265	SKIN GRAFT AND/OR DEBRID EXCEPT FOR SKIN ULCER OR CELLULITIS W/	244	490	165	361	2.1878
266	SKIN GRAFT AND/OR DEBRID EXCEPT FOR SKIN ULCER OR CELLULITIS W/	1,392	1,532	1,033	1,175	1.1378
267	PERIARIAL & PILONIDAL PROCEDURES	1,575	864	1,565	969	0.6191
268	SKIN, SUBCUTANEOUS TISSUE & BREAST PLASTIC PROCEDURES	1,697	1,368	1,704	1,422	0.8343
269	OTHER SKIN, SUBCUT TISS & BREAST O.R. PROC W CC	725	1,482	370	736	1.9898
270	OTHER SKIN, SUBCUT TISS & BREAST O.R. PROC W/O CC	5,627	5,238	6,050	4,555	0.7529
271	SKIN ULCERS	230	297	282	482	1.7079
272	MAJOR SKIN DISORDERS W CC	211	228	163	228	1.3839
273	MAJOR SKIN DISORDERS W/O CC	294	259	326	257	0.7869
274	MALIGNANT BREAST DISORDERS W CC	385	589	347	782	2.1957
275	MALIGNANT BREAST DISORDERS W/O CC	273	285	309	498	1.6122

--Continued--

EXHIBIT A-1: COMPARISON OF FY90 RWPs AND CMIs BY DRG USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA (PRESENTED IN DRG ORDER)  
(Continued)

DRG	DESCRIPTION	Version 4		Version 8		Percentage Difference in CMI
		Dispositions	RWPs	Dispositions	RWPs	
276	NON-MALIGNANT BREAST DISORDERS	1,914	1,167	1,915	1,310	0.6841
277	CELLULITIS AGE >17 W/CC	1,445	1,572	1,277	1,210	0.9473
278	CELLULITIS AGE >17 W/O CC	4,397	3,354	4,709	3,121	0.6628
279	CELLULITIS AGE 0-17	1,051	1,051	1,017	506	0.4974
280	TRAUMA TO THE SKIN, SUBCUT TISS & BREAST AGE >17 W/CC	886	649	804	603	0.7501
281	TRAUMA TO THE SKIN, SUBCUT TISS & BREAST AGE >17 W/O CC	2,730	1,380	3,018	1,628	0.5395
282	TRAUMA TO THE SKIN, SUBCUT TISS & BREAST AGE 0-17	485	176	528	208	0.3940
283	MINOR SKIN DISORDERS W/CC	798	629	467	363	0.7774
284	MINOR SKIN DISORDERS W/O CC	2,915	1,826	3,068	1,555	0.5068
285	AMPUTAT OF LOWER LIMB FOR ENDOCRINE, NUTRIT & METABOL DISORDERS	77	207	77	248	3.2240
286	ADRENAL & PITUITARY PROCEDURES	118	353	118	281	2.3804
287	SKIN GRAFTS & WOUND DEBRID FOR ENDOC, NUTRIT & METAB DISORDERS	119	261	119	159	2.7868
288	O.R. PROCEDURES FOR OBESITY	274	498	273	521	1.9072
289	PARATHYROID PROCEDURES	118	127	117	126	1.0797
290	THYROID PROCEDURES	1,312	1,110	1,309	1,092	0.8342
291	THYROID PROCEDURES	137	60	137	82	0.6021
292	OTHER ENDOCRINE, NUTRIT & METAB O.R. PROC W/CC	60	170	54	186	3.4480
293	OTHER ENDOCRINE, NUTRIT & METAB O.R. PROC W/O CC	79	166	83	94	1.1306
294	DIABETES AGE >35	2,235	1,761	2,295	1,777	0.7743
295	DIABETES AGE 0-35	1,525	1,018	1,527	906	0.5935
296	NUTRITIONAL & MISC METABOLIC DISORDERS AGE >17 W/CC	1,712	2,012	1,356	1,554	1.1461
297	NUTRITIONAL & MISC METABOLIC DISORDERS AGE >17 W/O CC	2,196	1,774	2,575	1,506	0.5850
298	NUTRITIONAL & MISC METABOLIC DISORDERS AGE 0-17	1,871	1,261	1,808	801	0.4428
299	INBORN ERRORS OF METABOLISM	339	401	345	354	1.0271
300	ENDOCRINE DISORDERS W/CC	462	530	397	443	1.1169
301	ENDOCRINE DISORDERS W/O CC	942	708	1,011	666	0.6590
302	KIDNEY TRANSPLANT	68	266	68	512	7.5311
303	KIDNEY, URETER & MAJOR BLADDER PROCEDURES FOR NEOPLASM	356	879	342	959	2.8043
304	KIDNEY, URETER & MAJOR BLADDER PROC FOR NON-NEOPL W/CC	378	867	2,292	647	2.2321
305	KIDNEY, URETER & MAJOR BLADDER PROC FOR NON-NEOPL W/O CC	716	1,003	768	976	1.2711
306	PROSTATECTOMY W/CC	267	620	108	189	1.5675
307	PROSTATECTOMY W/O CC	215	234	328	267	0.8144
308	MINOR BLADDER PROCEDURES W/CC	219	366	156	242	1.5524
309	MINOR BLADDER PROCEDURES W/O CC	228	293	358	355	0.9902
310	TRANSURETHRAL PROCEDURES W/CC	687	834	382	414	1.0840
311	TRANSURETHRAL PROCEDURES W/O CC	1,037	862	1,363	1,042	0.7645
312	URETHRAL PROCEDURES, AGE >17 W/CC	125	110	56	49	0.8732
313	URETHRAL PROCEDURES, AGE >17 W/O CC	488	372	534	407	0.7631
314	URETHRAL PROCEDURES, AGE 0-17	138	91	138	79	0.5694
315	OTHER KIDNEY & URINARY TRACT O.R. PROCEDURES	411	1,345	437	1,153	2.6387
316	RENAL FAILURE	743	1,693	968	1,658	1.9199
317	ADMIT FOR RENAL DIALYSIS	1,043	612	1,042	423	0.4062
318	KIDNEY & URINARY TRACT NEOPLASMS W/CC	255	468	220	414	1.8817
319	KIDNEY & URINARY TRACT NEOPLASMS W/O CC	114	98	183	189	1.1803
320	KIDNEY & URINARY TRACT INFECTIONS AGE >17 W/CC	1,778	1,750	1,434	1,408	0.9821
321	KIDNEY & URINARY TRACT INFECTIONS AGE >17 W/O CC	2,841	1,864	3,194	2,034	0.6369
322	KIDNEY & URINARY TRACT INFECTIONS AGE 0-17	1,391	750	1,342	740	0.5514
323	URINARY STONES W/CC, &/OR ESW LITHOTRIPSY	968	978	1,432	1,126	0.7864
324	URINARY STONES W/O CC	3,375	1,987	2,917	1,402	0.4807
325	KIDNEY & URINARY TRACT SIGNS & SYMPTOMS AGE >17 W/CC	333	328	210	213	1.0146
326	KIDNEY & URINARY TRACT SIGNS & SYMPTOMS AGE >17 W/O CC	602	439	622	328	0.5271
327	KIDNEY & URINARY TRACT SIGNS & SYMPTOMS AGE 0-17	171	97	106	39	0.3723
328	URETHRAL STRICTURE AGE >17 W/CC	38	27	28	20	0.7172
329	URETHRAL STRICTURE AGE >17 W/O CC	78	54	90	55	0.6074
330	URETHRAL STRICTURE AGE 0-17	43	14	43	14	0.3158

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EXHIBIT A-1: COMPARISON OF FY90 RWP's AND CMIS BY DRG USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA (PRESENTED IN DRG ORDER)  
(Continued)

DRG	DESCRIPTION	Version 4		Version 8		Percentage Difference in CMIS
		Dispositions	RWP's	Dispositions	RWP's	
331	OTHER KIDNEY & URINARY TRACT DIAGNOSES AGE >17 W/ CC	902	1,131	843	668	-17.2%
332	OTHER KIDNEY & URINARY TRACT DIAGNOSES AGE >17 W/O CC	861	585	1,084	691	-6.1%
333	OTHER KIDNEY & URINARY TRACT DIAGNOSES AGE 0-17	383	260	433	359	22.2%
334	MAJOR MALE PELVIC PROCEDURES WITH CC	161	362	137	384	15.0%
335	MAJOR MALE PELVIC PROCEDURES W/O CC	352	654	373	667	-3.8%
336	TRANSURETHRAL PROSTATECTOMY W CC	1,106	1,140	397	431	5.3%
337	TRANSURETHRAL PROSTATECTOMY W/O CC	801	653	1,510	1,131	-8.1%
338	TESTES PROCEDURES, FOR MALIGNANCY	437	414	435	496	20.3%
339	TESTES PROCEDURES, NON-MALIGNANCY AGE >17	3,040	1,951	3,040	1,767	-9.4%
340	TESTES PROCEDURES, NON-MALIGNANCY AGE 0-17	1,308	702	1,306	653	-6.8%
341	PENIS PROCEDURES	923	939	940	890	-7.0%
342	CIRCUMCISION AGE >17	1,152	589	1,152	667	13.3%
343	CIRCUMCISION AGE 0-17	2,479	1,781	1,911	836	-39.1%
344	OTHER MALE REPRODUCTIVE SYSTEM O.R. PROCEDURES FOR MALIGNANCY	94	138	95	167	20.0%
345	OTHER MALE REPRODUCTIVE SYSTEM O.R. PROC EXCEPT FOR MALIGNANCY	196	189	193	122	-34.4%
346	MALIGNANCY, MALE REPRODUCTIVE SYSTEM, W CC	413	765	279	438	-15.2%
347	MALIGNANCY, MALE REPRODUCTIVE SYSTEM, W/O CC	225	233	358	557	50.3%
348	BENIGN PROSTATIC HYPERTROPHY W CC	227	180	99	58	-25.6%
349	BENIGN PROSTATIC HYPERTROPHY W/O CC	263	164	393	181	-26.0%
350	INFLAMMATION OF THE MALE REPRODUCTIVE SYSTEM	1,408	989	1,401	870	-11.7%
351	STERILIZATION, MALE	3,683	1,405	3,702	1,421	0.9%
352	OTHER MALE REPRODUCTIVE SYSTEM DIAGNOSES	679	448	681	384	-14.5%
353	PELVIC EVISCERATION, RADICAL HYSTERECTOMY & VULVECTOMY	114	255	114	328	28.5%
354	UTERINE/ADNEXA PROC FOR NON-OVARIAN/ADNEXAL MALIGN W CC	138	238	122	232	10.4%
355	UTERINE/ADNEXA PROC FOR NON-OVARIAN/ADNEXAL MALIGN W/O CC	248	308	285	308	-6.4%
356	FEMALE REPRODUCTIVE SYSTEM RECONSTRUCTIVE PROCEDURES	1,410	1,336	1,232	1,043	-10.6%
357	UTERUS & ADNEXA PROC FOR OVARIAN OR ADNEXAL MALIGNANCY	183	432	183	395	-8.5%
358	UTERUS & ADNEXA PROC FOR NON-MALIGNANCY W CC	2,533	3,407	2,400	2,876	-10.9%
359	UTERUS & ADNEXA PROC FOR NON-MALIGNANCY W/O CC	10,384	9,996	10,545	9,714	-4.3%
360	VAGINA, CERVIX & VULVA PROCEDURES	2,185	1,729	2,103	1,507	-9.0%
361	LAPAROSCOPY & INCISIONAL TUBAL INTERRUPTION	6,587	6,589	6,831	6,477	-4.4%
362	ENDOSCOPIC TUBAL INTERRUPTION	4,510	1,855	4,504	1,764	6.7%
363	DAC, CONIZATION & RADIO-IMPLANT, FOR MALIGNANCY	503	489	507	406	-17.6%
364	DAC, CONIZATION EXCEPT FOR MALIGNANCY	4,913	2,824	5,089	2,404	-11.5%
365	OTHER FEMALE REPRODUCTIVE SYSTEM O.R. PROCEDURES	588	865	584	820	-4.5%
366	MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W CC	237	332	206	307	6.2%
367	MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W/O CC	325	217	357	297	24.2%
368	INFECTIONS, FEMALE REPRODUCTIVE SYSTEM	1,938	1,249	1,935	1,119	-10.2%
369	MENSTRUUAL & OTHER FEMALE REPRODUCTIVE SYSTEM DISORDERS	3,527	1,684	3,370	1,578	-1.9%
370	CEASAREAN SECTION WITH C. C.	4,791	5,958	4,665	5,140	-11.4%
371	CEASAREAN SECTION W/O C. C.	12,984	12,591	12,998	10,734	-15.5%
372	VAGINAL DELIVERY W COMPLICATING DIAGNOSES	6,985	6,436	6,984	4,391	-31.8%
373	VAGINAL DELIVERY W/O COMPLICATING DIAGNOSES	64,088	31,732	64,078	28,740	-15.7%
374	VAGINAL DELIVERY W STERILIZATION AND/OR DAC	3,204	2,430	3,291	2,315	-7.3%
375	VAGINAL DELIVERY WITH O.R. PROC EXCEPT STERIL & OR DAC	145	115	141	88	-20.7%
376	POSTPARTUM & POST ABORTION DIAGNOSES W/O O.R. PROCEDURE	1,221	617	1,226	589	-4.8%
377	POSTPARTUM AND POST ABORTION DIAGNOSES W O.R. PROCEDURE	522	379	464	337	0.2%
378	ECTOPIC PREGNANCY	2,146	1,727	2,146	1,683	-2.6%
379	THREATENED ABORTION	8,871	3,638	8,871	3,415	-6.1%
380	ABORTION W/O DAC	1,295	473	1,305	435	-8.9%
381	ABORTION W DAC, ASPIRATION CURETTAGE OR HYSTEROTOMY	7,571	3,305	7,612	3,179	-4.3%
382	FALSE LABOR	1,496	282	1,495	294	4.2%
383	OTHER ANTEPARTUM DIAGNOSES W MEDICAL COMPLICATIONS	11,895	4,781	11,680	4,254	-11.0%
384	OTHER ANTEPARTUM DIAGNOSES W/O MEDICAL COMPLICATIONS	9,256	4,016	9,256	2,737	-30.8%
385	NEONATES, DIED OR TRANSFERRED (NOT VALID IN VERSION 8)	1,801	2,067	1,1478	.....	.....

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EXHIBIT A-1: COMPARISON OF FY90 RWP AND CMIS BY DRG USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA (PRESENTED IN DRG ORDER)  
(Continued)

DRG	DESCRIPTION	Version 4		Version 8		Percentage Difference in CMI
		Dispositions	RWPs	Dispositions	RWPs	
366	EXTREME MMAT. OR RESP. DISTRESS SYND (NOT VALID IN VERSION 8)	727	3,321	4,5881		
367	PREMATURITY W/MAJOR PROBLEMS (NOT VALID IN VERSION 8)	1,568	3,140	2,0025		
368	PREMATURITY W/MAJOR PROBLEMS (NOT VALID IN VERSION 8)	2,285	2,020	0,8839		
369	FULL TERM NEONATE W/MAJOR PROBLEMS (NOT VALID IN VERSION 8)	7,514	4,048	0,5387		
390	NEONATE W/OTHER SIGNIF. PROBLEM (NOT VALID IN VERSION 8)	12,428	2,895	0,2329		
391	NORMAL NEWBORNS	69,087	9,628	0,1414	68,355	0,1229
392	SPLENECTOMY AGE >17	176	574	3,2634	298	2,1286
393	SPLENECTOMY AGE 0-17	25	46	1,8150	56	2,5411
394	OTHER O.R. PROCEDURES OF THE BLOOD AND BLOOD FORMING ORGANS	918	1,419	1,5459	883	1,1242
395	RED BLOOD CELL DISORDERS AGE >17	2,465	2,664	1,0805	2,419	0,9168
396	RED BLOOD CELL DISORDERS AGE 0-17	577	395	0,6840	575	0,5619
397	COAGULATION DISORDERS	701	632	0,9022	691	1,1238
398	RETICULOCYTOSES & IMMUNITY DISORDERS W CC	2,028	3,433	1,6929	553	1,6346
399	RETICULOCYTOSES & IMMUNITY DISORDERS W/O CC	1,114	910	0,8166	1,280	0,7321
400	LYMPHOMA & LEUKEMIA W MAJOR O.R. PROCEDURE	269	1,308	4,5271	261	1,208
401	LYMPHOMA & NON-ACUTE LEUKEMIA W OTHER O.R. PROC W CC	140	369	2,6343	128	495
402	LYMPHOMA & NON-ACUTE LEUKEMIA W OTHER O.R. PROCEDURE W/O CC	363	570	1,6142	344	483
403	LYMPHOMA & NON-ACUTE LEUKEMIA W CC	689	1,582	2,2636	681	2,128
404	LYMPHOMA & NON-ACUTE LEUKEMIA W/O CC	839	1,000	1,1918	852	937
405	ACUTE LEUKEMIA W/O MAJOR O.R. PROCEDURE AGE 0-17	256	503	1,9654	256	2,2159
406	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W MAJ O.R. PROC W CC	107	384	3,6796	77	445
407	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W MAJ O.R. PROC W/O CC	77	141	1,8299	90	213
408	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W MAJ O.R. PROC W/O CC	527	944	1,7907	459	962
409	RADIOTHERAPY	464	599	1,2906	465	699
410	CHEMOTHERAPY	3,354	2,614	0,7793	3,360	2,747
411	HISTORY OF MALIGNANCY W/O ENDOSCOPY	108	146	1,3632	82	39
412	HISTORY OF MALIGNANCY W ENDOSCOPY	309	144	0,4669	340	182
413	OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W CC	377	547	1,4516	278	532
414	OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W/O CC	232	239	1,0316	388	422
415	O.R. PROCEDURE FOR INFECTIOUS & PARASITIC DISEASES	837	3,495	4,1754	684	2,677
416	SEPTICEMIA AGE >17	454	926	2,0392	473	966
417	SEPTICEMIA AGE 0-17	687	500	0,7281	566	483
418	POSTOPERATIVE & POST-TRAUMATIC INFECTIONS	873	1,076	1,2327	969	930
419	FEVER OF UNKNOWN ORIGIN AGE >17 W CC	278	215	1,1603	215	220
420	FEVER OF UNKNOWN ORIGIN AGE >17 W/O CC	226	228	1,0099	248	183
421	VIRAL ILLNESS AGE >17	9,182	5,148	0,5606	9,152	5,460
422	VIRAL ILLNESS & FEVER OF UNKNOWN ORIGIN AGE 0-17	3,050	1,287	0,4221	2,714	1,203
423	OTHER INFECTIOUS & PARASITIC DISEASES DIAGNOSES	847	1,050	1,2392	793	1,231
424	O.R. PROCEDURE W PRINCIPAL DIAGNOSES OF MENTAL ILLNESS	298	1,478	4,9693	245	720
425	ACUTE ADJUST REACT & DISTURBANCES OF PSYCHOSOCIAL DYSFUNCTION	1,774	1,517	0,8552	1,776	2,028
426	DEPRESSIVE NEUROSIS	4,504	4,963	1,1019	4,509	5,982
427	NEUROSIS EXCEPT DEPRESSIVE	4,917	4,478	0,9107	4,928	9,344
428	DISORDERS OF PERSONALITY & IMPULSE CONTROL	2,823	3,227	1,1431	2,829	10,389
429	ORGANIC DISTURBANCES & MENTAL RETARDATION	794	1,003	1,2630	776	1,580
430	PSYCHOSES	4,762	8,105	1,7019	4,752	10,416
431	CHILDHOOD MENTAL DISORDERS	234	252	1,0762	234	638
432	OTHER MENTAL DISORDERS DIAGNOSES	624	624	0,9639	628	1,290
433	ALCOHOL/DRUG ABUSE OR DEPENDENCE, LEFT AMA	193	100	0,5188	193	148
434	ALCOHOL/DRUG ABUSE OR DEPEND, DETOX OR OTH SYMPT TREAT W CC	3,315	3,556	1,0728	1,497	2,182
435	ALCOHOL/DRUG, DETOX OR OTH SYMPT W/O CC (NOT VALID IN VERSION 8)	7	7	1,0189		
436	ALCOHOL/DRUG DEPENDENCE W REHABILITATION THERAPY	2,663	2,667	0,9977	1,235	1,765
437	ALCOHOL/DRUG DEPENDENCE, COMBINED REHAB & DETOX THERAPY	2,272	3,028	1,3319	302	493
438	NO LONGER VALID					
439	SKIN GRAFTS FOR INJURIES	129	241	1,8689	144	479
440	WOUND DEBRIDEMENTS FOR INJURIES	666	1,365	2,0492	347	850

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EXHIBIT A-1: COMPARISON OF FY90 RWPs AND CMIs BY DRG USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA (PRESENTED IN DRG ORDER)  
(Continued)

DRG	DESCRIPTION	Version 4		CMIs	Version 8		Percentage Difference in CMI
		Dispositions	RWPs		Dispositions	RWPs	
441	HAND PROCEDURES FOR INJURIES	284	384	1.3622	293	358	-9.6%
442	OTHER O.R. PROCEDURES FOR INJURIES W CC	687	2,440	3.5518	318	1,007	-10.8%
443	OTHER O.R. PROCEDURES FOR INJURIES W/O CC	1,323	2,125	1.6064	1,060	1,208	-28.1%
444	TRAUMATIC INJURY AGE >17 W CC	314	334	1.0628	254	241	-10.7%
445	TRAUMATIC INJURY AGE >17 W/O CC	1,346	1,218	0.9049	1,518	861	-37.4%
446	TRAUMATIC INJURY AGE 0-17	314	235	0.7485	338	167	-34.0%
447	ALLERGIC REACTIONS AGE >17	560	364	0.6493	558	317	-12.6%
448	ALLERGIC REACTIONS AGE 0-17	74	24	0.3183	74	21	-12.3%
449	POISONING & TOXIC EFFECTS OF DRUGS AGE >17 W CC	1,145	1,243	1.0657	1,150	1,127	-9.7%
450	POISONING & TOXIC EFFECTS OF DRUGS AGE >17 W/O CC	2,742	1,704	0.6216	2,750	1,519	-11.2%
451	POISONING AND TOXIC EFFECTS OF DRUGS AGE 0-17	1,399	601	0.4328	1,366	607	1.1%
452	COMPLICATIONS OF TREATMENT W CC	595	717	1.2049	310	494	32.2%
453	COMPLICATIONS OF TREATMENT W/O CC	836	404	0.4837	881	479	12.5%
454	OTHER INJURY, POISONING & TOXIC EFFECT DIAG W CC	521	1,003	1.9254	503	671	-30.7%
455	OTHER INJURY, POISONING & TOXIC EFFECT DIAG W/O CC	1,988	1,120	0.5633	2,006	846	-25.1%
456	BURNS, TRANSFERRED TO ANOTHER ACUTE CARE FACILITY	92	160	1.7340	90	464	197.5%
457	EXTENSIVE BURNS W/O O.R. PROCEDURE	14	67	4.7721	18	112	30.3%
458	NON-EXTENSIVE BURNS W SKIN GRAFTS	285	922	3.4782	261	988	8.8%
459	NON-EXTENSIVE BURNS W WOUND DEBRIDEMENT OR OTHER O.R. PROC	163	292	1.7902	39	79	12.9%
460	NON-EXTENSIVE BURNS W/O O.R. PROCEDURE	662	610	0.9211	786	680	-6.1%
461	O.R. PROC WITH DIAGNOSES OF OTHER CONTACT W HEALTH SERVICES	1,251	1,734	1.3862	1,059	1,587	8.1%
462	REHABILITATION	139	416	2.9624	140	435	3.9%
463	SIGNS & SYMPTOMS WITH CC	446	463	1.0149	416	369	-12.7%
464	SIGNS & SYMPTOMS W/O CC	528	341	0.6453	545	294	-16.5%
465	AFTERCARE W HISTORY OF MALIGNANCY AS SECONDARY DIAGNOSIS	1,043	562	0.5390	1,063	521	-9.0%
466	AFTERCARE W/O HISTORY OF MALIGNANCY AS SECONDARY DIAGNOSIS	3,508	2,416	0.6890	3,523	2,642	8.8%
467	OTHER FACTORS INFLUENCING HEALTH STATUS	11,724	5,931	0.5059	11,475	6,165	6.2%
468	EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS	7,884	18,970	2.4061	3,852	10,226	10.3%
471	BILATERAL OR MULTIPLE MAJOR JOINT PROCEDURES OF LOWER EXTREM	8	40	4.9679	9	53	17.2%
472	EXTENSIVE BURNS W/O O.R. PROCEDURE	30	535	17.8268	26	521	12.4%
473	ACUTE LEUKEMIA W/O MAJOR O.R. PROCEDURE AGE > 17	350	2,800	7.9998	348	2,354	-15.4%
474	RESPIRATORY SYSTEM DIAG W/TRACHEOSTOMY (NOT VALID IN VERSION 8)						
475	RESPIRATORY SYSTEM DIAG WITH VENTILATOR SUPPORT				380	1,670	4.3934
476	PROSTATIC O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS				44	113	2.5709
477	NON-EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS				2,415	3,540	1.4657
478	OTHER VASCULAR PROCEDURES W CC				598	2,124	3.5522
479	OTHER VASCULAR PROCEDURES W/O CC				555	990	1.7838
480	LIVER TRANSPLANT				7	206	17.7169
481	BONE MARROW TRANSPLANT				48	754	15.7069
482	TRACHEOSTOMY W MOUTH, LARYNX OR PHARYNX DISORDER				288	1,519	5.2748
483	TRACHEOSTOMY EXCEPT FOR MOUTH, LARYNX OR PHARYNX DISORDER				556	11,480	20.6476
484	CRANIOTOMY FOR MULTIPLE SIGNIFICANT TRAUMA				24	205	8.5225
485	LEGS REATTACHMENT, HIP AND FEMUR PROC FOR MULTIPLE SIGNIFICANT				101	654	6.4786
486	OTHER O.R. PROCEDURES FOR MULTIPLE SIGNIFICANT TRAUMA				346	2,218	6.4110
487	OTHER MULTIPLE SIGNIFICANT TRAUMA				279	913	3.2718
488	HV W EXTENSIVE O.R. PROCEDURE				50	240	4.8072
489	HV W MAJOR RELATED CONDITION				635	2,493	3.9256
490	HV W OR W/O OTHER RELATED CONDITION				1,454	3,440	2.3659
600	NEONATE, DIED W/IN ONE DAY OF BIRTH				228	175	0.7679
601	NEONATE, TRANSFERRED <6 DAYS OLD				1,115	382	0.3424
602	NEONATE, BIRTHWT <750G, DISCHARGED ALIVE				60	1,265	21.4133
603	NEONATE, BIRTHWT <750G, DIED				24	348	14.3977
604	NEONATE, BIRTHWT 750-999G, DISCHARGED ALIVE				73	972	13.3085
605	NEONATE, BIRTHWT 750-999G, DIED				14	190	13.5673
606	NEONATE, BIRTHWT 1000-1499G, W SIGNIF OR PROC, DISCHARGED ALIVE				21	302	14.3627

--Continued--



EXHIBIT A-1: COMPARISON OF FY90 RFPs AND CMIs BY DRG USING VERSION 4 VERSUS VERSION 8  
 WEIGHTS AND OUTLIER CRITERIA (PRESENTED IN DRG ORDER)  
 (Concluded)

DRG	DESCRIPTION	Version 4		Version 8		Percentage Difference in CMI
		Dispositions	RFPs	Dispositions	RFPs	
607	NEONATE, BIRTH-WT 1000-1499G, W/O SIGNIF OR PROC, DISCHARGED ALI	268	1,740	13	229	6.4835
608	NEONATE, BIRTH-WT 1000-1499G, DIED	18	186	18	186	17.5799
610	NEONATE, BIRTH-WT 1500-1999G, W SIGNIF OR PROC, W/O MULT MAJOR P	5	40	5	40	10.3269
611	NEONATE, BIRTH-WT 1500-1999G, W/O SIGNIF OR PROC, W MULT MAJOR P	98	547	98	547	7.9708
612	NEONATE, BIRTH-WT 1500-1999G, W/O SIGNIF OR PROC, W MAJOR PROB	162	646	162	646	5.5824
613	NEONATE, BIRTH-WT 1500-1999G, W/O SIGNIF OR PROC W MINOR PROB	121	281	121	281	3.9880
614	NEONATE, BIRTH-WT 1500-1999G, W/O SIGNIF OR PROC W OTHER PROB	320	452	320	452	2.3205
615	NEONATE, BIRTH-WT 2000-2499G, W SIGNIF OR PROC, W MULT MAJOR PROB	14	129	14	129	1.4124
616	NEONATE, BIRTH-WT 2000-2499G, W SIGNIF OR PROC, W/O MULT MAJOR PROB	14	148	14	148	9.2491
617	NEONATE, BIRTH-WT 2000-2499G, W/O SIGNIF OR PROC, W MULT MAJOR PR	86	331	86	331	10.5977
618	NEONATE, BIRTH-WT 2000-2499G, W/O SIGNIF OR PROC, W MAJOR PROB	181	428	181	428	3.8465
619	NEONATE, BIRTH-WT 2000-2499G, W/O SIGNIF OR PROC, W MINOR PROB	177	258	177	258	2.3660
620	NO LONGER VALID	---	---	---	---	1.4549
621	NEONATE, BIRTH-WT 2000-2499G, W/O SIGNIF OR PROC, W OTHER PROB	109	1,173	109	1,173	0.4880
622	NEONATE, BIRTH-WT >2499G, W SIGNIF OR PROC, W MULT MAJOR PROB	254	855	254	855	10.7596
623	NEONATE, BIRTH-WT >2499G, W SIGNIF OR PROC, W/O MULT PROB	75	67	75	67	3.3655
624	NEONATE, BIRTH-WT >2499G, W MINOR ABDOM PROCEDURE	---	---	---	---	0.8997
625	NO LONGER VALID	---	---	---	---	---
626	NEONATE, BIRTH-WT >2499G, W/O SIGNIF OR PROC, MULT MAJOR PROB	675	2,674	675	2,674	3.9609
627	NEONATE, BIRTH-WT >2499G, W/O SIGNIF OR PROC, W MAJOR PROB	2,870	3,243	2,870	3,243	1.1301
628	NEONATE, BIRTH-WT >2499G, W/O SIGNIF OR PROC, W MINOR PROB	3,515	2,180	3,515	2,180	0.8203
629	NO LONGER VALID	---	---	---	---	---
630	NEONATE, BIRTH-WT >2499G, W/O SIGNIF OR PROC, W OTHER PROB	16,654	3,215	16,654	3,215	0.1930
631	BPD AND OTH CHRONIC RESPIRATORY DISEASES ARISING IN PERINATAL P	47	280	47	280	5.9532
632	OTHER RESPIRATORY PROBLEMS AFTER BIRTH	56	43	56	43	0.7706
633	MULTIPLE, OTHER AND UNSPECIFIED CONGENITAL ANOMALIES, W CC	17	28	17	28	1.8387
634	MULTIPLE, OTHER AND UNSPECIFIED CONGENITAL ANOMALIES, W/O CC	51	119	51	119	2.3290
635	NEONATAL AFTERCARE FOR WEIGHT GAIN	7	9	7	9	1.2808
636	NEONATAL DIAGNOSIS AGE > 28 DAYS	351	2,067	351	2,067	5.8886
900	ALCOHOL ABUSE OR DEPEND, DETOX OR OTH SYMPT TREAT AGE <21 W/O	3,260	6,267	3,260	6,267	1.9183
901	ALCOHOL ABUSE OR DEPEND, DETOX OR OTH SYMPT TREAT AGE > 21 W/O	9,519	13,260	9,519	13,260	1.3630
TOTAL		866,875	743,829	866,869	736,850	0.8491
						-1.0%

EXHIBIT A-2: COMPARISON OF FY90 RWP's AND CMIs BY DRG USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA (PRESENTED IN ORDER OF PERCENTAGE DIFFERENCE IN CMI)

DRG	DESCRIPTION	Dispositions	Version 4 RWP's	CMIs	Dispositions	Version 8 RWP's	CMIs	Percentage Difference in CMI	Cumulative Share of Version 8 RWP's
428	DISORDERS OF PERSONALITY & IMPULSE CONTROL	2,823	3,227	1,1431	2,829	10,389	3,6723	221.3%	1.4%
456	BURNS, TRANSFERRED TO ANOTHER ACUTE CARE FACILITY	92	160	1,7340	90	464	5,1593	197.5%	1.5%
431	CHILDHOOD MENTAL DISORDERS	234	252	1,0752	234	638	2,7266	153.6%	1.6%
427	NEUROSES EXCEPT DEPRESSIVE	4,917	4,478	0,9107	4,928	9,344	1,8961	108.7%	2.8%
432	OTHER MENTAL DISORDERS DIAGNOSES	628	624	0,9939	628	1,290	2,0542	106.7%	3.0%
302	KIDNEY TRANSPLANT	68	266	3,9128	68	512	7,5311	92.5%	3.1%
136	CARDIAC CONGENITAL & VALVULAR DISORDERS AGE >17 W CC	291	296	1,0165	251	474	1,8866	85.6%	3.1%
436	SKIN GRAFTS FOR INJURIES	129	241	1,8698	144	479	3,3255	77.8%	3.2%
244	BONE DISEASES & SEPTIC ARTHROPATHIES W CC	342	320	0,9362	351	1,5141	1,5141	61.7%	3.3%
429	ORGANIC DISTURBANCES & MENTAL RETARDATION	794	1,003	1,2630	776	1,580	2,0358	61.2%	3.5%
85	PLEURAL EFFUSION W CC	350	514	1,4686	321	753	2,3464	59.8%	3.8%
408	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W MAJ O.R. PROC W CC	107	394	3,6706	77	445	5,7826	57.2%	3.6%
108	OTHER CARDIOTHORACIC PROCEDURES	147	582	3,8231	189	1,129	5,9745	56.3%	3.8%
275	MALIGNANT BREAST DISORDERS W/O CC	273	285	1,0424	309	498	1,6122	54.7%	3.9%
347	MALIGNANCY, MALE REPRODUCTIVE SYSTEM, W/O CC	225	233	1,0352	358	557	1,5557	50.3%	3.9%
198	HEPATOBLILIARY DIAGNOSTIC PROCEDURE FOR MALIGNANCY	58	119	2,0438	58	176	3,0368	48.6%	4.0%
433	ALCOHOL/DRUG ABUSE OR DEPENDENCE, LEFT AMA	193	100	0,5188	193	148	0,7650	47.5%	4.0%
401	LYMPHOMA & NON-ACUTE LEUKEMIA W OTHER O.R. PROC W CC	140	369	2,6343	128	495	3,8634	46.7%	4.0%
62	MYRINGOTOMY WITH TUBE INSERTION AGE 0-17	5,932	2,477	0,4175	5,998	3,671	0,6121	46.6%	4.5%
28	TRAIUMATIC STUPOR & COMA, COMA <1 HR AGE >17 W/O CC	1,141	1,005	0,8812	1,263	1,656	1,2909	46.5%	4.8%
274	MALIGNANT BREAST DISORDERS W CC	385	589	1,5307	347	782	2,1957	43.4%	4.9%
438	ALC/DRUG DEPENDENCE W REHABILITATION THERAPY	2,663	2,657	0,9977	1,235	1,765	1,4291	43.2%	5.1%
36	OTHER DISORDERS OF NERVOUS SYSTEM W/O CC	995	914	0,9188	1,055	1,369	1,2979	41.3%	5.3%
363	SPLENECTOMY AGE 0-17	25	45	1,8150	22	56	2,5411	40.0%	5.3%
104	CARDIAC VALVE PROCEDURE W CARDIAC CATH	122	881	7,2176	125	1,257	10,0581	39.4%	5.5%
403	LYMPHOMA & NON-ACUTE LEUKEMIA W CC	699	1,582	2,2636	681	2,128	3,1249	38.0%	5.8%
319	KIDNEY & URINARY TRACT NEOPLASMS W/O CC	114	96	0,8418	163	189	1,1603	37.8%	5.8%
132	ATHEROSCLEROSIS W CC	1,598	1,787	1,1181	1,684	2,560	1,5382	37.6%	6.1%
291	THYROIDGLAND PROCEDURES	137	80	0,4394	137	82	0,6021	37.0%	6.1%
137	CARDIAC CONGENITAL & VALVULAR DISORDERS AGE 0-17	375	398	1,0564	319	459	1,4391	36.2%	6.2%
38	RETINAL PROCEDURES	486	452	0,9308	475	600	1,2630	35.7%	6.3%
434	ALC/DRUG ABUSE OR DEPEND, DETOX OR OTH SYMPT TREAT W CC	3,315	3,556	1,0728	1,497	2,162	1,4442	34.6%	6.6%
81	RESPIRATORY INFECTIONS & INFLAMMATIONS AGE 0-17	96	155	1,6095	90	194	2,1608	34.2%	6.6%
232	ARTHROSCOPY	3,366	2,594	0,7706	3,743	3,868	1,0333	34.1%	7.1%
426	ACUTE ADJUST REACT & DISTURBANCES OF PSYCHOSOCIAL DYSFUNCTION	1,774	1,517	0,8552	1,778	2,028	1,1420	33.5%	7.4%
245	BONE DISEASES & SEPTIC ARTHROPATHIES W/O CC	772	524	0,6783	689	803	0,9035	33.2%	7.5%
462	COMPLICATIONS OF TREATMENT W CC	595	717	1,2049	310	494	1,5924	32.2%	7.6%
271	SKIN ULCERS	230	297	1,2923	282	482	1,7079	32.2%	7.7%
20	NERVOUS SYSTEM INFECTION EXCEPT VIRAL MENINGITIS	557	775	1,3811	651	1,197	1,8378	32.1%	7.8%
413	OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W CC	377	547	1,4618	278	532	1,9126	31.8%	7.9%
467	EXTENSIVE BURNS W/O O.R. PROCEDURE	14	67	4,7721	18	112	6,2203	30.3%	7.9%
407	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W MAJ O.R. PROC W/O CC	77	141	1,8299	90	213	2,3637	29.2%	7.9%
430	PSYCHOSES	4,782	8,105	1,7019	4,752	10,418	2,1920	28.8%	9.3%
363	PELVIC EVISCERATION, RADICAL HYSTERECTOMY & VULVECTOMY	114	255	2,2374	114	328	2,8752	28.5%	9.4%
272	MAJOR SKIN DISORDERS W CC	211	228	1,0827	163	226	1,3839	27.8%	9.4%
287	SKIN GRAFTS & WOUND DEBRID FOR ENDOC, NUTRIT & METAB DISORDERS	119	261	2,1963	57	159	2,7888	27.0%	9.4%
9	SPINAL DISORDERS & INJURIES	222	503	2,2675	209	601	2,8759	26.8%	9.5%
213	AMPUTATIONS FOR MUSCULOSKELETAL SYSTEM & CONN TISSUE DISORDERS	105	286	2,7237	107	369	3,4523	26.7%	9.6%
423	OTHER INFECTIOUS & PARASITIC DISEASES DIAGNOSES	847	1,050	1,2392	793	1,231	1,5526	25.3%	9.7%
118	CARDIAC PACEMAKER DEVICE REPLACEMENT	21	45	2,1623	181	488	2,6972	24.7%	9.8%
397	COAGULATION DISORDERS	701	632	0,9022	691	777	1,1238	24.6%	9.9%
217	WIND DEBRID & SKIN GRFT EXC HAND, FOR MUSCSKELET & CONN. TISS DIS	1,066	3,472	3,2572	680	2,792	4,0467	24.2%	10.3%
10	NERVOUS SYSTEM NEOPLASMS W CC	288	399	1,3840	288	457	1,7193	24.2%	10.4%
367	MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W/O CC	325	217	0,6691	367	297	0,8309	24.2%	10.4%
187	DENTAL EXTRACTIONS & RESTORATIONS	14,361	7,584	0,5270	14,400	9,378	0,6512	23.6%	11.7%

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EXHIBIT A-2: COMPARISON OF FY90 RWP'S AND CMIS BY DRG USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA (PRESENTED IN ORDER OF PERCENTAGE DIFFERENCE IN CMI)  
(Continued)

DRG	DESCRIPTION	Version 4		Version 8		Percentage Difference in CMI	Cumulative Share of Version 8 RWP's
		Dispositions	RWP's	Dispositions	RWP's	CMIs	
30	TRAUMATIC STUPOR & COMA <1 HR AGE 0-17	812	385	800	467	0.5840	23.3%
437	ALCOHOL DEPENDENCE; COMBINED REHAB & DETOX THERAPY	2,272	3,026	302	493	1.6316	11.8%
333	OTHER KIDNEY & URINARY TRACT DIAGNOSES AGE 0-17	383	260	433	359	0.8283	22.2%
282	OTHER ENDOCRINE, NUTRIT & METAB O.R. PROC W CC	60	170	54	186	3.4480	11.9%
233	OTHER MUSCULOSKELET SYS & CONN TISS O.R. PROC W CC	304	825	143	472	3.3025	21.7%
57 T & A	PROC, EXCEPT TONSILLECTOMY &/OR ADENOIDECTOMY ONLY, AGE >1	658	365	766	516	0.6735	21.3%
50	SIALOADENECTOMY	449	372	827	450	1.0004	20.8%
113	AMPUTATION FOR CIRC SYSTEM DISORDERS EXCEPT UPPER LIMB & TOE	130	553	173	886	5.1224	20.4%
428	DEPRESSIVE NEUROSES	4,504	4,963	4,509	5,982	1.3266	20.4%
338	TESTES PROCEDURES, FOR MALIGNANCY	437	614	435	498	1.1398	20.3%
17	NONSPECIFIC CEREBROVASCULAR DISORDERS W/O CC	191	164	197	204	1.0346	20.1%
344	OTHER MALE REPRODUCTIVE SYSTEM O.R. PROCEDURES FOR MALIGNANCY	94	138	147	167	1.7574	20.0%
18	NONSPECIFIC CEREBROVASCULAR DISORDERS W CC	113	166	104	183	1.7631	20.0%
286	AMPUTAT OF LOWER LIMB FOR ENDOCRINE, NUTRIT&METABOL DISORDERS	77	207	77	248	3.2240	19.8%
440	WOUND DEBRIDEMENTS FOR INJURIES	666	1,365	347	850	2.4507	19.6%
242	SEPTIC ARTHRITIS	134	165	136	198	1.4591	18.7%
56	MISCELLANEOUS EAR, NOSE & THROAT PROCEDURES	4,882	2,640	3,221	2,141	0.6645	17.9%
33	CONCUSSION AGE 0-17	344	90	269	106	0.3061	17.3%
417	SEPTICEMIA AGE 0-17	887	500	566	483	0.8538	17.3%
471	BILATERAL OR MULTIPLE MAJOR JOINT PROCEDURES OF LOWER EXTREM	8	40	9	53	5.8444	17.2%
408	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W OTHER O.R. PROC	527	944	459	962	2.0952	17.0%
58	RHINOPLASTY	4,180	2,199	5,466	3,353	0.6134	16.6%
409	RADIOTHERAPY	464	599	465	699	1.5035	16.5%
202	CIRRHOOSIS & ALCOHOLIC HEPATITIS	666	1,023	685	1,219	1.7799	15.9%
158	STOMACH, ESOPHAGEAL & DUODENAL PROCEDURES AGE 0-17	273	364	205	315	1.5386	15.3%
110	MAJOR CARDIOVASCULAR PROCEDURES W CC	532	2,134	401	1,852	4.6175	15.1%
150	PERITONEAL ADHESION W/O CC	288	706	234	660	2.8223	15.1%
334	MAJOR MALE PELVIC PROCEDURES WITH CC	161	392	137	384	2.8019	15.0%
204	DISORDERS OF PANCREAS EXCEPT MALIGNANCY	1,361	1,423	1,404	1,677	1.1943	14.2%
58	& A PROC, EXCEPT TONSILLECTOMY &/OR ADENOIDECTOMY ONLY, AGE 0-	2,174	847	2,271	1,008	0.4438	13.9%
222	KNEE PROCEDURES W/O CC	9,575	10,280	11,644	14,233	1.2223	13.8%
303	KIDNEY, URETER & MAJOR BLADDER PROCEDURES FOR NEOPLASM	356	879	342	959	2.8043	13.6%
133	ATHEROSCLEROSIS W/O CC	1,120	1,116	1,989	2,260	1.1308	13.5%
1	CRANIOTOMY AGE >17 EXCEPT FOR TRAUMA	656	2,829	638	3,119	4.8892	13.4%
342	CIRCUMCISION AGE >17	1,152	589	1,152	667	0.5792	13.3%
216	BIOPSIES OF MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE	410	768	420	892	2.1227	13.1%
459	NON-EXTENSIVE BURNS W WOUND DEBRIDEMENT OR OTHER O.R. PROC	163	282	39	79	2.0217	12.9%
287	PERIARIAL & PILONIDAL PROCEDURES	1,575	864	1,565	969	0.8191	12.9%
42	INTRAOCULAR PROCEDURES EXCEPT RETINA, IRIS & LENS	796	881	806	778	0.9654	12.8%
3	CRANIOTOMY AGE 0-17	227	846	225	722	3.2084	12.8%
405	ACUTE LEUKEMIA W/O MAJOR O.R. PROCEDURE AGE 0-17	256	503	256	567	2.2159	12.7%
463	COMPLICATIONS OF TREATMENT W/O CC	636	404	881	479	0.5442	12.5%
22	HYPERTENSIVE ENCEPHALOPATHY	105	73	105	82	0.7850	12.5%
37	ORBITAL PROCEDURES	269	273	280	319	1.1398	12.5%
263	SKIN GRAFT &/OR DEBRID FOR SKIN ULCER OR CELLULITIS W CC	211	787	123	516	4.1915	12.4%
472	EXTENSIVE BURNS W/O.R. PROCEDURE	30	535	26	521	20.0302	12.4%
130	PERIPHERAL VASCULAR DISORDERS W CC	1,331	1,524	1,056	1,357	1.2852	12.2%
278	NON-MALIGNANT BREAST DISORDERS	1,914	1,167	1,915	1,310	0.6841	12.2%
58	TONSILLECTOMY &/OR ADENOIDECTOMY ONLY, AGE >17	2,289	911	2,273	1,021	0.4493	11.9%
238	PATHOLOGICAL FRACTURES & MUSCULOSKELETAL & CONN TISS MALIGNANCY	799	1,135	811	1,286	1.5855	11.8%
228	SOFT TISSUE PROCEDURES W CC	221	313	165	259	1.5721	10.9%
105	CARDIAC VALVE PROCEDURE W/O CARDIAC CATH	202	1,242	195	1,329	6.8152	10.9%
46	NEUROLOGICAL EYE DISORDERS	351	218	362	241	0.8849	10.4%
354	UTERINE ADNEXA PROC FOR NON-OVARIAN/DNEXAL MALIGN W CC	138	238	122	232	1.9015	10.4%
468	EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS	7,884	18,970	3,852	10,228	2.6548	10.3%

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EXHIBIT A-2: COMPARISON OF FY90 RWPs AND CMIs BY DRG USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA (PRESENTED IN ORDER OF PERCENTAGE DIFFERENCE IN CMI)  
(Continued)

DRG	DESCRIPTION	Version 4 Dispositions	Version 4 RWPs	Version 4 CMIs	Dispositions	Version 8 RWPs	Version 8 CMIs	Percentage Difference in CMI	Cumulative Share of Version 8 RWPs
54	SINUS & MASTOID PROCEDURES AGE 0-17	240	195	0.8119	205	183	0.8935	10.1%	21.4%
172	DIGESTIVE MALIGNANCY W CC	848	1,505	1.7745	718	1,401	1.9507	9.9%	21.6%
40	EXTRAOCULAR PROCEDURES EXCEPT ORBIT AGE >17	3,045	1,766	0.5866	3,105	1,997	0.6433	9.7%	21.9%
72	NASAL TRAUMA & DEFORMITY	488	230	0.4713	493	254	0.5161	9.5%	21.9%
265	SKIN GRAFT AND/OR DEBRID EXCEPT FOR SKIN ULCER OR CELLULITIS W/	244	490	2.0081	165	361	2.1878	9.0%	22.0%
468	AFTERCARE W/O HISTORY OF MALIGNANCY AS SECONDARY DIAGNOSIS	3,506	2,416	0.6890	3,523	2,642	0.7499	8.8%	22.3%
212	HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT AGE 0-17	220	368	1.6706	214	389	1.8192	8.8%	22.4%
458	NON-EXTENSIVE BURNS W SKIN GRAFTS	265	922	3.4782	261	988	3.7843	8.8%	22.5%
41	EXTRAOCULAR PROCEDURES EXCEPT ORBIT AGE 0-17	1,553	736	0.4737	1,552	798	0.5151	8.8%	22.6%
282	TRAUMA TO THE SKIN, SUBCUT TISS & BREAST AGE 0-17	485	176	0.3624	528	208	0.3940	8.7%	22.6%
2	CRANIOTOMY FOR TRAUMA AGE >17	178	1,146	6.4386	137	958	6.9970	8.7%	22.8%
461	O.R. PROC WITH DIAGNOSES OF OTHER CONTACT W HEALTH SERVICES	1,251	1,734	1.3882	1,059	1,587	1.4987	8.1%	23.0%
207	DISORDERS OF THE BILIARY TRACT W CC	482	460	0.9552	407	419	1.0298	7.8%	23.0%
21	VIRAL MENINGITIS	1,007	587	0.5928	938	596	0.6358	7.3%	23.1%
154	STOMACH, ESOPHAGEAL & DUODENAL PROCEDURES AGE >17 W CC	662	2,654	4.0091	562	2,414	4.2962	7.2%	23.5%
82	RESPIRATORY NEOPLASMS	2,205	3,532	1.6019	2,204	3,779	1.7144	7.0%	24.0%
46	OTHER DISORDERS OF THE EYE AGE >17 W CC	333	254	0.7631	299	244	0.8161	6.9%	24.0%
60	TONSILLECTOMY & OR ADENOIDECTOMY ONLY, AGE 0-17	3,138	1,084	0.3455	3,146	1,161	0.3689	6.8%	24.2%
75	MAJOR CHEST PROCEDURES	1,629	5,634	3.4683	1,134	4,188	3.6932	6.8%	24.7%
236	FRACTURES OF HIP & PELVIS	478	520	1.0881	442	513	1.1617	6.8%	24.8%
362	ENDOSCOPIC TUBAL INTERRUPTION	4,510	1,655	0.3670	4,504	1,764	0.3916	6.7%	25.0%
281	TRAUMA TO THE SKIN, SUBCUT TISS & BREAST AGE >17 W/O CC	2,730	1,380	0.5056	3,018	1,628	0.5395	6.7%	25.3%
252	FX, SPRN, STRN & DISL OF FOREARM, HAND, FOOT AGE 0-17	773	269	0.3482	780	290	0.3715	6.7%	25.3%
52	CLEFT LIP & PALATE REPAIR	259	178	0.6883	298	219	0.7344	6.7%	25.3%
421	VIRAL ILLNESS AGE >17	9,182	5,148	0.5606	9,152	5,460	0.5965	6.4%	26.1%
5	EXTRACRANIAL VASCULAR PROCEDURES	463	842	1.8190	463	896	1.9352	6.4%	26.2%
467	OTHER FACTORS INFLUENCING HEALTH STATUS	11,724	5,931	0.5059	11,475	6,165	0.5372	6.2%	27.0%
51	SALIVARY GLAND PROCEDURES EXCEPT SALOADENECTOMY	87	58	0.6694	77	71	0.9230	6.2%	27.0%
368	MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W CC	237	332	1.4022	206	307	1.4886	6.2%	27.1%
8	CARPAL TUNNEL RELEASE	2,259	1,429	0.6325	2,259	1,516	0.6710	6.1%	27.3%
191	PANCREAS, LIVER & SHUNT PROCEDURES W CC	175	1,090	6.2289	212	1,399	6.6006	6.0%	27.5%
179	INFLAMMATORY BOWEL DISEASE	1,191	1,401	1.1760	1,220	1,515	1.2420	5.8%	27.7%
246	NON-SPECIFIC ARTHROPATHIES	200	132	0.6580	200	138	0.6945	5.6%	27.7%
336	TRANSURETHRAL PROSTATECTOMY W CC	1,106	1,140	1.0312	397	431	1.0862	5.3%	27.8%
414	OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W/O CC	232	239	1.0316	388	422	1.0866	5.3%	27.8%
106	CORONARY BYPASS W CARDIAC CATH	654	3,935	6.0187	653	4,133	6.3289	5.2%	28.4%
107	CORONARY BYPASS W/O CARDIAC CATH	702	3,584	5.1194	663	3,568	5.3813	5.1%	28.9%
288	O.R. PROCEDURES FOR OBESITY	274	498	1.8161	273	521	1.9072	5.0%	28.9%
422	VIRAL ILLNESS & FEVER OF UNKNOWN ORIGIN AGE 0-17	3,050	1,287	0.4221	2,714	1,203	0.4433	5.0%	29.1%
11	NERVOUS SYSTEM NEOPLASMS W/O CC	313	373	1.1929	338	423	1.2525	5.0%	29.2%
410	CHEMOTHERAPY	3,354	2,614	0.7793	3,360	2,747	0.8176	4.9%	29.5%
251	FX SPRN, STRN & DISL OF FOREARM, HAND, FOOT AGE >17 W/O CC	1,392	875	0.6286	1,469	969	0.6594	4.9%	29.7%
111	MAJOR CARDIOVASCULAR PROCEDURES W/O CC	283	804	2.8422	339	1,007	2.9700	4.5%	29.8%
382	FALSE LABOR	1,486	282	0.1888	1,485	294	0.1988	4.2%	29.8%
67	EPIGLOTTITIS	52	50	0.9703	52	53	1.0110	4.2%	29.8%
93	INTERSTITIAL LUNG DISEASE W/O CC	335	291	0.8686	358	324	0.9046	4.0%	29.9%
462	REHABILITATION	139	416	2.9924	140	435	3.1082	3.9%	29.9%
34	OTHER DISORDERS OF NERVOUS SYSTEM W CC	484	1,056	2.1825	421	951	2.2599	3.5%	30.1%
268	SKIN, SUBCUTANEOUS TISSUE & BREAST PLASTIC PROCEDURES	1,697	1,368	0.8060	1,704	1,422	0.8343	3.5%	30.3%
266	SKIN GRAFT AND/OR DEBRID EXCEPT FOR SKIN ULCER OR CELLULITIS W/	1,392	1,532	1.1009	1,033	1,175	1.1378	3.4%	30.4%
263	FX SPRN, STRN & DISL OF UP/ARM, LOW/LEG EX FOOT AGE >17 W CC	384	489	1.2211	317	400	1.2613	3.3%	30.5%
259	SUBTOTAL MASTECTOMY FOR MALIGNANCY W CC	211	368	1.7447	117	211	1.7997	3.2%	30.5%
325	KIDNEY & URINARY TRACT SIGNS & SYMPTOMS AGE >17 W CC	333	328	0.9837	210	213	1.0146	3.1%	30.5%
261	BREAST PROC FOR NON-MALIGNANCY EXCEPT BIOPSY & LOCAL EXCISION	2,350	2,232	0.9499	2,517	2,468	0.9786	3.1%	30.9%
14	SPECIFIC CEREBROVASCULAR DISORDERS EXCEPT TIA	2,058	3,188	1.5485	2,046	3,284	1.5955	3.0%	31.3%

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EXHIBIT A-2: COMPARISON OF FY90 RWP's AND CMIs BY DRG USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA (PRESENTED IN ORDER OF PERCENTAGE DIFFERENCE IN CMI)  
(Continued)

DRG	DESCRIPTION	Version 4 Dispositions	Version 4 RWP's	CMIs	Dispositions	Version 8 RWP's	CMIs	Percentage Difference in CMI	Cumulative Share of Version 8 RWP's
193	BILIARY TRACT PROC EXCEPT ONLY TOT CHOLECYST W OR W/O C.D.E. W	138	587	4.2512	139	608	4.3757	2.9%	31.4%
12	DEGENERATIVE NERVOUS SYSTEM DISORDERS	669	1,287	1.9237	670	1,324	1.9767	2.8%	31.6%
98	BRONCHITIS & ASTHMA AGE 0-17	6,914	3,737	0.5405	6,853	3,801	0.5546	2.6%	32.1%
318	KIDNEY & URINARY TRACT NEOPLASMS W CC	255	468	1.8342	220	414	1.8817	2.6%	32.2%
280	TRAUMA TO THE SKIN, SUBCUT TISS & BREAST AGE >17 W CC	886	649	0.7327	804	603	0.7501	2.4%	32.2%
208	MAJOR JOINT & LIMB REATTACHMENT PROCEDURES	1,100	3,394	3.0856	1,503	4,742	3.1552	2.3%	32.9%
322	KIDNEY & URINARY TRACT INFECTIONS AGE 0-17	1,391	750	0.5394	1,342	740	0.5514	2.2%	33.0%
400	LYMPHOMA & LEUKEMIA W MAJOR O.R. PROCEDURE	289	1,308	4.5271	281	1,208	4.6274	2.2%	33.1%
96	PNEUMOTHORAX W/O CC	613	398	0.6492	627	415	0.6624	2.0%	33.2%
412	HISTORY OF MALIGNANCY W ENDOSCOPY	309	144	0.4669	340	162	0.4756	1.9%	33.2%
32	CONCUSSION AGE >17 W/O CC	856	387	0.4518	903	416	0.4603	1.9%	33.3%
144	OTHER CIRCULATORY DIAGNOSES WITH CC	816	1,157	1.4175	904	1,300	1.4376	1.4%	33.5%
122	CIRCULATORY DISORDERS W AMI W/O C.V. COMP DISCH ALIVE	2,970	3,713	1.2501	1,780	2,253	1.2859	1.3%	33.8%
328	URETHRAL STRICTURE AGE >17 W CC	38	27	0.7084	28	20	0.7172	1.2%	33.8%
330	URETHRAL STRICTURE AGE 0-17	43	14	0.3158	43	14	0.3196	1.2%	33.8%
39	LENS PROCEDURES WITH OR WITHOUT VITRECTOMY	6,331	4,953	0.7824	6,287	4,975	0.7914	1.2%	34.4%
451	POISONING AND TOXIC EFFECTS OF DRUGS AGE 0-17	1,389	601	0.4328	1,386	607	0.4376	1.1%	34.5%
351	STERILIZATION, MALE	3,893	1,405	0.3804	3,702	1,421	0.3837	0.9%	34.7%
255	FX, SPRN, STRN & DISL OF UPARM, LOWLEG EX FOOT AGE 0-17	726	302	0.4158	729	305	0.4179	0.5%	34.8%
78	PULMONARY EMBOLISM	363	547	1.5075	351	531	1.5136	0.4%	34.8%
4	SPINAL PROCEDURES	348	902	2.6082	336	879	2.6167	0.3%	35.0%
288	PARATHYROID PROCEDURES	118	127	1.0783	117	126	1.0797	0.3%	35.0%
377	POSTPARTUM AND POST ABORTION DIAGNOSES W O.R. PROCEDURE	522	379	0.7253	464	337	0.7289	0.2%	35.0%
416	SEPTICEMIA AGE >17	454	928	2.0392	473	966	2.0431	0.2%	35.1%
53	SINUS & MASTOID PROCEDURES AGE >17	1,978	1,731	0.8759	2,033	1,782	0.8766	0.1%	35.4%
115	PERI CARDIAC PACEMAKER IMPLANT W AMI, HEART FAILURE OR SHOCK	5	24	4.7176	1	5	4.7189	0.0%	35.4%
313	URETHRAL PROCEDURES, AGE >17 W/O CC	488	372	0.7833	534	407	0.7831	0.0%	35.4%
187	APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W/O CC	4,063	2,921	0.7189	4,082	2,933	0.7185	-0.1%	35.8%
127	HEART FAILURE & SHOCK	2,997	3,832	1.2786	3,091	3,943	1.2756	-0.2%	36.4%
121	CIRCULATORY DISORDERS W AMI & C.V. COMP DISCH ALIVE	928	1,740	1.8795	968	1,841	1.8740	-0.3%	36.5%
320	KIDNEY & URINARY TRACT INFECTIONS AGE >17 W CC	1,778	1,750	0.9851	1,434	1,081	0.9821	-0.3%	36.7%
99	RESPIRATORY SIGNS & SYMPTOMS W CC	665	651	0.9792	622	607	0.9755	0.4%	36.8%
138	CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W CC	2,768	2,584	0.9337	1,891	1,753	0.9269	0.7%	37.0%
28	SEIZURE & HEADACHE AGE 0-17	2,249	1,239	0.5510	2,234	1,220	0.5460	-0.9%	37.2%
91	SIMPLE PNEUMONIA & PLEURISY AGE 0-17	3,504	2,314	0.6603	3,400	2,221	0.6533	-1.1%	37.5%
312	URETHRAL PROCEDURES, AGE >17 W CC	125	110	0.8827	56	49	0.8732	-1.1%	37.5%
184	ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS AGE 0-17	5,559	2,053	0.3692	5,477	1,998	0.3648	-1.2%	37.8%
224	SHOULDER, ELBOW OR FOREARM PROC, EXC MAJOR JOINT PROC, W/O CC	2,792	2,461	0.8780	2,119	1,836	0.8663	-1.3%	38.0%
267	TOTAL MAISTECTOMY FOR MALIGNANCY W CC	552	681	1.2337	422	514	1.2173	-1.3%	38.1%
82	INTERSTITIAL LUNG DISEASE W CC	390	630	1.6183	355	566	1.5948	-1.3%	38.2%
280	THYROID PROCEDURES	1,312	1,110	0.8458	1,309	1,092	0.8342	-1.4%	38.3%
116	PERI CARDIAC PACEMAKER IMPLANT W/O AMI, HEART FAILURE OR SHOCK	80	280	3.2513	81	259	3.2007	-1.6%	38.4%
294	DIABETES AGE >35	2,235	1,781	0.7881	2,296	1,777	0.7743	-1.8%	38.6%
264	SKIN GRAFT &/OR DEBRID FOR SKIN ULCER OR CELLULITIS W/O CC	194	411	2.1175	145	302	2.0803	-1.8%	38.6%
388	MENSTRUAL & OTHER FEMALE REPRODUCTIVE SYSTEM DISORDERS	3,527	1,684	0.4775	3,370	1,578	0.4692	-1.9%	38.9%
124	CIRCULATORY DISORDERS EXCEPT AMI, W CARD CATH & COMPLEX DIAG	1,284	1,878	1.4629	1,381	1,951	1.4339	-2.0%	39.1%
182	INGUINAL & FEMORAL HERNIA PROCEDURES AGE >17 W/O CC	9,772	5,504	0.5633	10,552	5,815	0.5511	-2.2%	39.9%
219	LOWER EXTREMITY & HUMER PROC EXCEPT HIP, FOOT, FEMUR AGE >17 W/O	3,321	3,917	1.1793	3,396	3,916	1.1531	-2.2%	40.4%
203	MALIGNANCY OF HEPATOBILIARY SYSTEM OR PANCREAS	572	838	1.4653	593	849	1.4325	-2.2%	40.6%
240	CONNECTIVE TISSUE DISORDERS W CC	441	753	1.7074	411	686	1.6698	-2.3%	40.7%
125	CIRCULATORY DISORDERS EXCEPT AMI, W CARD CATH W/O COMPLEX DIAG	5,888	5,734	0.9738	6,116	5,816	0.9509	-2.4%	41.4%
282	BREAST BIOPSY & LOCAL EXCISION FOR NON-MALIGNANCY	6,056	3,418	0.5644	6,058	3,338	0.5511	-2.4%	41.9%
298	NUTRITIONAL & MISC METABOLIC DISORDERS AGE >17 W CC	1,712	2,012	1.1750	1,358	1,554	1.1461	-2.5%	42.1%
378	ECTOPIC PREGNANCY	2,146	1,727	0.8047	2,146	1,683	0.7840	-2.8%	42.3%
197	TOTAL CHOLECYSTECTOMY W/O C.D.E. W CC	2,146	3,405	1.5887	1,161	1,794	1.5452	-2.6%	42.6%

--Continued--

EXHIBIT A-2: COMPARISON OF FY90 RWP'S AND CMIS BY DRG USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA (PRESENTED IN ORDER OF PERCENTAGE DIFFERENCE IN CMI)  
(Continued)

DRG	DESCRIPTION	Version 4		Version 8		Percentage Difference in CMI	Cumulative Share of Version 8 RWPs		
		Dispositions	RWPs	Dispositions	RWPs				
269	OTHER SKIN, SUBCUT TISS & BREAST O.R. PROC W/CC	725	1,482	2,0435	736	1,9898	-2.6%	42.7%	
304	KIDNEY, URETER & MAJOR BLADDER PROC FOR NON-NEOPL W/CC	378	867	2,2327	290	647	2,2321	-2.6%	42.8%
300	ENDOCRINE DISORDERS W/CC	462	530	1,1478	397	443	1,1169	-2.7%	42.8%
321	KIDNEY & URINARY TRACT INFECTIONS AGE >17 W/O CC	2,841	1,864	0,6362	3,194	2,034	0,6369	-2.9%	43.1%
63	OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES	461	582	1,2629	3,468	4,249	1,2253	-3.0%	43.7%
128	DEEP VEIN THROMBOPHLEBITIS	192	174	0,9064	192	169	0,8785	-3.1%	43.7%
69	OTITIS MEDIA & URI >17 W/O CC	10,377	5,182	0,4994	10,446	5,052	0,4836	-3.2%	44.4%
170	OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W/CC	219	767	3,5043	627	3,3880	-3.3%	44.5%	
165	APPENDICITOMY W/COMPLICATED PRINCIPAL DIAG W/O CC	734	907	1,2358	778	929	1,1935	-3.4%	44.6%
398	RETICULOENDOTHELIAL IMMUNITY DISORDERS W/CC	2,028	3,433	1,9929	553	904	1,6346	-3.4%	44.7%
148	MAJOR SMALL & LARGE BOWEL PROCEDURES W/CC	1,883	6,526	3,8778	1,442	5,398	3,7433	-3.5%	45.5%
163	HERNIA PROCEDURES AGE 0-17	3,219	1,520	0,4721	3,191	1,452	0,4650	-3.6%	45.7%
335	MAJOR MALE PELVIC PROCEDURES W/O CC	352	654	1,8573	373	667	1,7877	-3.8%	45.7%
112	PERCUTANEOUS CARDIOVASCULAR PROCEDURES	2,022	5,085	2,5147	1,841	3,953	2,4088	-4.2%	46.3%
225	FOOT PROCEDURES	5,463	4,484	0,8208	5,795	4,556	0,7863	-4.2%	46.9%
211	HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT AGE >17 W/O CC	528	1,115	2,1113	598	1,209	2,0211	-4.3%	47.1%
359	UTERUS & ADENEXA PROC FOR NON-MALIGNANCY W/O CC	10,384	9,996	0,9626	10,545	9,714	0,9212	-4.3%	48.4%
381	ABORTION W/D&C, ASPIRATION CURETTAGE OR HYSTEROTOMY	7,571	3,305	0,4366	7,612	3,179	0,4176	-4.3%	48.8%
308	MINOR BLADDER PROCEDURES W/CC	219	356	1,6239	156	242	1,5524	-4.4%	48.9%
381	LAPAROSCOPY & INCISIONAL TUBAL INTERRUPTION	8,587	6,589	0,7673	8,831	6,477	0,7335	-4.4%	49.7%
15	TRANSIENT ISCHEMIC ATTACKS AND PRECEREBRAL OCCLUSIONS	1,350	1,041	0,7714	1,349	995	0,7372	-4.4%	49.9%
221	KNEE PROCEDURES W/CC	294	647	2,2001	243	511	2,1025	-4.4%	49.9%
208	DISORDERS OF THE BILIARY TRACT W/O CC	1,047	682	0,8511	1,179	733	0,8217	-4.5%	50.0%
159	HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL AGE >17 W/CC	523	657	1,2565	353	423	1,1997	-4.5%	50.1%
365	OTHER FEMALE REPRODUCTIVE SYSTEM O.R. PROCEDURES	588	865	1,4711	584	820	1,4046	-4.5%	50.2%
145	OTHER CIRCULATORY DIAGNOSES W/O CC	683	652	0,9412	782	684	0,8973	-4.7%	50.3%
378	POSTPARTUM & POST ABORTION DIAGNOSES W/O O.R. PROCEDURE	1,221	617	0,5049	1,228	599	-4.8%	50.4%	
180	G.I. OBSTRUCTION W/CC	617	667	1,0816	443	456	1,0289	-4.9%	50.4%
227	SOFT TISSUE PROCEDURES W/O CC	3,020	2,603	0,8619	3,294	2,699	0,8194	-4.9%	50.8%
43	HYPHEMA	269	79	0,2020	270	75	0,2775	-4.9%	50.8%
44	ACUTE MAJOR EYE INFECTIONS	507	254	0,5019	501	238	0,4759	-5.2%	50.9%
234	OTHER MUSCULOSKELETAL SYS & CONN TISS O.R. PROC W/O CC	2,101	2,480	1,1802	1,825	2,039	1,1175	-5.3%	51.1%
70	OTITIS MEDIA & URI AGE 0-17	4,060	1,741	0,4287	3,918	1,588	0,4054	-5.4%	51.3%
141	SYNCOPE & COLLAPSE W/CC	953	706	0,7406	751	526	0,6999	-5.5%	51.4%
180	HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL AGE >17 W/O CC	2,222	1,875	0,8440	2,384	1,901	0,7974	-5.5%	51.4%
86	PLEURAL EFFUSION W/O CC	173	163	0,9445	204	182	0,8913	-5.6%	51.7%
181	G.I. OBSTRUCTION W/O CC	851	523	0,6141	1,041	603	0,5781	-5.7%	51.8%
196	TOTAL CHOLECYSTECTOMY W/C.D.E. W/O CC	163	248	1,5288	199	287	1,4406	-5.8%	51.8%
177	UNCOMPLICATED PEPTIC ULCER W/CC	369	346	0,9389	289	238	0,8834	-5.9%	51.9%
230	LOCAL EXCISION & REMOVAL OF INT FIX DEVICES OF HIP & FEMUR	702	674	0,9601	574	518	0,9024	-6.0%	51.9%
480	NON-EXTENSIVE BURNS W/O O.R. PROCEDURE	682	610	0,8211	786	680	0,8651	-6.1%	52.0%
378	THREATENED ABORTION	8,871	3,638	0,4101	8,871	3,415	0,3849	-6.1%	52.5%
332	OTHER KIDNEY & URINARY TRACT DIAGNOSES AGE >17 W/O CC	861	585	0,6790	1,054	691	0,6379	-6.1%	52.6%
140	ANGINA PECTORIS	3,126	2,384	0,7581	3,219	2,284	0,7095	-6.2%	52.9%
415	O.R. PROCEDURE FOR INFECTIOUS & PARASITIC DISEASES	837	3,485	4,1754	684	2,677	3,9144	-6.2%	53.2%
365	UTERINE ADENEXA PROC FOR NON-OVARIANADNEXAL MALIG W/O CC	248	308	1,2426	285	308	1,1632	-6.4%	53.3%
214	BACK & NECK PROCEDURES W/CC	575	1,613	2,8053	428	1,122	2,6212	-6.6%	53.4%
340	TESTES PROCEDURES, NON-MALIGNANCY AGE 0-17	1,308	702	0,5367	1,306	653	0,5003	-6.6%	53.5%
341	PENIS PROCEDURES	923	939	1,0172	940	890	0,9464	-7.0%	53.7%
228	MAJOR THUMB OR JOINT PROC, OR OTH HAND OR WRIST PROC WITH CC	828	851	1,0301	833	796	0,9656	-7.2%	53.8%
374	VAGINAL DELIVERY W/STERILIZATION AND/OR D&C	3,204	2,430	0,7584	3,201	2,315	0,7033	-7.3%	54.1%
220	LOWER EXTREM & HUMER PROC EXCEPT HIP, FOOT, FEMUR AGE 0-17	511	452	0,8840	509	417	0,8192	-7.3%	54.1%
142	SYNCOPE & COLLAPSE W/O CC	1,318	801	0,6076	1,499	843	0,5623	-7.4%	54.2%
258	TOTAL MASTECTOMY FOR MALIGNANCY W/O CC	884	893	1,0098	1,016	948	0,9331	-7.6%	54.4%
404	LYMPHOMA & NON-ACUTE LEUKEMIA W/O CC	839	1,000	1,1918	852	937	1,1002	-7.7%	54.5%

--Continued--

EXHIBIT A-2: COMPARISON OF FY90 RWP'S AND CMIS BY DRG USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA (PRESENTED IN ORDER OF PERCENTAGE DIFFERENCE IN CMI)  
(Continued)

DRG	DESCRIPTION	Version 4		Version 8		Percentage Difference in CMI	Cumulative Share of Version 8 RWPs
		Dispositions	RWPs	Dispositions	RWPs		
74	OTHER EAR, NOSE, MOUTH & THROAT DIAGNOSES AGE 0-17	890	500	0.5622	424	0.5174	54.6%
311	TRANSURETHRAL PROCEDURES W/O CC	1,037	862	0.8314	1,363	1,042	8.0%
337	TRANSURETHRAL PROSTATECTOMY W/O CC	801	653	0.8152	1,510	1,131	8.1%
367	UTERUS & ADENEXA PROC FOR OVARIAN OR ADNEAL MALIGNANCY	183	432	2.3613	183	385	8.5%
148	MAJOR SMALL & LARGE BOWEL PROCEDURES W/O CC	1,138	2,424	2.1302	1,412	2,751	8.6%
263	MINOR SKIN DISORDERS W CC	738	629	0.8528	467	363	8.8%
380	ABORTION W/O DAC	1,295	473	0.3654	1,305	435	8.9%
465	AFTERCARE W HISTORY OF MALIGNANCY AS SECONDARY DIAGNOSIS	1,043	562	0.5390	1,063	521	8.0%
360	VAGINA, CERVIX & VULVA PROCEDURES	2,195	1,729	0.7877	2,103	1,507	9.0%
155	STOMACH, ESOPHAGEAL & DUODENAL PROCEDURES AGE >17 W/O CC	614	1,249	2.0339	644	1,191	9.1%
248	FENITONIS, MYOSITIS & BURSTIS	1,316	910	0.6911	1,404	882	9.1%
264	FX SPRN, STRN & DIBL OF UPARM, LOWLEG EX FOOT AGE >17 W/O CC	3,533	2,186	0.6188	3,613	2,030	9.2%
306	KIDNEY, URETER & MAJOR BLADDER PROC FOR NON-NEOPL W/O CC	716	1,003	1.4005	768	1,271	9.2%
231	LOCAL EXCISION & REMOVAL OF INT FIX DEVICES EXCEPT HIP & FEMUR	9,352	10,639	1.1377	7,986	8,240	9.3%
310	TRANSURETHRAL PROCEDURES W CC	697	834	1.1962	382	414	9.4%
338	TESTES PROCEDURES, NON-MALIGNANCY AGE >17	3,040	1,951	0.6419	3,040	1,767	9.4%
441	HAND PROCEDURES FOR INJURIES	284	384	1.3522	293	358	9.6%
448	POISONING & TOXIC EFFECTS OF DRUGS AGE >17 W CC	1,145	1,243	1.0857	1,150	1,127	9.7%
66	DISOQUILIBRIUM	827	474	0.5726	825	426	9.9%
368	INFECTIONS, FEMALE REPRODUCTIVE SYSTEM	1,938	1,249	0.6443	1,935	1,119	10.2%
119	VEIN LIGATION & STRIPPING	1,131	979	0.8657	1,132	879	10.3%
131	PERIPHERAL VASCULAR DISORDERS W/O CC	1,581	1,230	0.7781	1,898	1,325	10.3%
114	UPPER LIMB & TOE AMPUTATION FOR CIRC SYSTEM DISORDERS	75	172	2.2947	77	158	10.3%
398	RETICULOENDOTHELIAL & IMMUNITY DISORDERS W/O CC	1,114	910	0.8166	1,280	937	10.3%
19	CRANIAL & PERIPHERAL NERVE DISORDERS W/O CC	1,441	1,233	0.8557	1,468	1,124	10.5%
358	FEMALE REPRODUCTIVE SYSTEM RECONSTRUCTIVE PROCEDURES	1,410	1,338	0.9472	1,232	1,043	10.6%
134	HYPERTENSION	1,586	1,092	0.6882	1,528	939	10.7%
444	TRAUMATIC INJURY AGE >17 W CC	314	334	1.0628	254	241	10.7%
273	MAJOR SKIN DISORDERS W/O CC	294	259	0.8821	326	257	10.8%
442	OTHER O.R. PROCEDURES FOR INJURIES W CC	687	2,440	3.5618	318	1,007	10.8%
94	PNEUMOTHORAX W CC	211	358	1.6947	182	275	10.3%
368	UTERUS & ADENEXA PROC FOR NON-MALIGNANCY W CC	2,533	3,407	1.3450	2,400	2,878	10.9%
205	DISORDERS OF LIVER EXC MALIGN, CIRRH, ALC HEPA W CC	689	1,293	1.8770	656	1,097	10.9%
383	OTHER ANTERPARTUM DIAGNOSES W MEDICAL COMPLICATIONS	11,695	4,781	0.4088	11,690	4,254	11.0%
278	CELLULITIS AGE 0-17	1,051	587	0.5588	1,017	506	11.0%
68	OTITIS MEDIA & URI AGE >17 W CC	1,487	1,112	0.7427	1,440	951	11.1%
286	DIABETES AGE 0-36	1,525	1,018	0.6679	1,527	906	11.1%
460	POISONING & TOXIC EFFECTS OF DRUGS AGE >17 W/O CC	2,742	1,704	0.6216	2,750	1,519	11.2%
158	ANAL AND STOMAL PROCEDURES W/O CC	4,001	2,614	0.6533	4,245	2,463	11.2%
71	LARYNGOTRACHEITIS	1,084	415	0.3827	1,081	367	11.3%
370	CEBARAN SECTION WITH C. C.	4,791	5,858	1.2435	4,865	5,140	11.4%
364	DAC, CONIZATION EXCEPT FOR MALIGNANCY	4,913	2,824	0.5740	5,089	2,404	11.5%
174	G.I. HEMORR-HAGE W CC	1,908	2,279	1.1959	1,584	1,675	11.6%
164	APPENDECTOMY W COMPLICATED PRINCIPAL DIAG W CC	244	580	2.3778	203	426	11.6%
360	INFLAMMATION OF THE MALE REPRODUCTIVE SYSTEM	1,408	989	0.7027	1,401	870	11.7%
418	FEVER OF UNKNOWN ORIGIN AGE >17 W CC	278	323	1.1603	215	220	11.9%
90	SIMPLE PNEUMONIA & PLEURISY AGE >17 W/O CC	3,692	3,445	0.9331	3,970	3,260	12.0%
96	BRONCHITIS & ASTHMA AGE >17 W CC	1,556	1,866	1.1991	1,375	1,448	12.2%
448	ALLERGIC REACTIONS AGE 0-17	74	24	0.3183	74	21	12.3%
301	ENDOCRINE DISORDERS W/O CC	942	708	0.7520	1,011	686	12.4%
66	SIMPLE PNEUMONIA & PLEURISY AGE >17 W CC	3,331	5,384	1.6104	2,944	4,155	12.4%
100	RESPIRATORY SIGNS & SYMPTOMS W/O CC	1,325	900	0.6795	1,428	850	12.4%
143	CHEST PAIN	7,703	5,284	0.6860	7,772	4,865	12.5%
447	ALLERGIC REACTIONS AGE >17	580	364	0.6493	568	317	12.6%
328	URETHRAL STRICTURE AGE >17 W/O CC	78	54	0.6950	90	55	12.6%

-Continued-

EXHIBIT A-2: COMPARISON OF FY90 RWP'S AND CMIS BY DRG USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA (PRESENTED IN ORDER OF PERCENTAGE DIFFERENCE IN CMI)  
(Continued)

DRG	DESCRIPTION	Version 4		Version 8		Percentage Difference in CMI	Cumulative Share of Version 8 RWP's
		Dispositions	RWP's	Dispositions	RWP's		
		CMIs	CMIs				
483	SIGNS & SYMPTOMS WITH CC	446	453	1,0149	369	0.8661	64.9%
215	BACK & NECK PROCEDURES W/O CC	2,874	4,601	1,6010	4,202	1.3660	12.8%
277	CELLULITIS AGE >17 W/CC	1,445	1,572	1,0879	1,277	0.9473	12.9%
402	LYMPHOMA & NON-ACUTE LEUKEMIA W OTHER O.R. PROCEDURE W/O CC	353	570	1,6142	344	4.83	13.0%
381	NORMAL NEWBORNS	68,097	9,628	0.1414	68,355	8,401	13.1%
278	CELLULITIS AGE >17 W/O CC	4,397	3,354	0.7627	4,709	3,121	66.28
195	TOTAL CHOLECYSTECTOMY W/C.D.E. W/CC	341	742	2.1771	274	518	1.8911
290	INBORN ERRORS OF METABOLISM	339	401	1.1828	345	354	1.0271
314	URETHRAL PROCEDURES, AGE 0-17	138	91	0.6561	138	79	0.5694
13	MULTIPLE SCLEROSIS & CEREBELLAR ATAXIA	502	575	1.1450	505	500	0.9903
198	TOTAL CHOLECYSTECTOMY W/O C.D.E. W/O CC	4,717	5,405	1.1458	5,607	5,556	0.9908
218	LOWER EXTREMITY & HUMER PROC EXCEPT HIP, FOOT, FEMUR AGE >17 W/CC	349	758	2.1709	270	506	1.8730
229	HAND OR WRIST PROC, EXCEPT MAJOR JOINT PROC, W/O CC	6,595	5,376	0.8151	6,587	4,622	0.7017
176	G.I. HEMORRHAGE W/O CC	1,931	1,438	0.7445	2,529	1,621	0.6408
23	NONTRAUMATIC STUPOR & COMA	146	180	1.2326	147	156	1.0609
139	CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W/O CC	2,330	1,626	0.6980	3,026	1,813	0.5991
188	DENTAL & ORAL DIS EXCEPT EXTRACTIONS & RESTORATIONS, AGE 0-17	439	206	0.4697	461	186	0.4024
260	SUBTOTAL MASTECTOMY FOR MALIGNANCY W/O CC	663	591	0.8914	759	579	0.7632
362	OTHER MALE REPRODUCTIVE SYSTEM DIAGNOSES	679	448	0.6601	681	384	0.5646
8	PERIPH & CRANIAL NERVE & OTHER NERV SYST PROC W/O CC	1,581	1,788	1.1308	1,609	1,552	0.9648
182	ESOPHAGITIS, GASTROENT, & MISC DIGEST DISORDERS AGE >17 W/CC	6,374	5,453	0.8555	5,330	3,885	0.7289
84	MAJOR CHEST TRAUMA W/O CC	92	66	0.7200	99	61	0.6117
183	ESOPHAGITIS, GASTROENT, & MISC DIGEST DISORDERS AGE >17 W/O CC	18,650	11,892	0.6377	22,079	11,961	0.5418
396	RED BLOOD CELL DISORDERS AGE >17	2,465	2,664	1.0805	2,419	2,218	0.9168
348	MALIGNANCY, MALE REPRODUCTIVE SYSTEM, W/CC	413	765	1.8515	278	438	1.5701
260	FX SPRLN, STRN & DISL OF FOREARM, HAND, FOOT AGE >17 W/CC	126	149	1.1847	81	1,0034	12.3%
190	OTHER DIGESTIVE SYSTEM DIAGNOSES AGE 0-17	694	322	0.4637	654	257	0.3624
148	RECTAL RESECTION W/CC	186	894	3.7335	81	256	3.1575
473	ACUTE LEUKEMIA W/O MAJOR O.R. PROCEDURE AGE >17	350	2,800	7.9998	348	2,354	6.7645
371	CEASAREAN SECTION W/O C. C.	12,884	12,591	0.9772	12,998	10,734	0.8258
84	EAR, NOSE, MOUTH & THROAT MALIGNANCY	487	771	1.5636	556	744	1.3373
316	RENAL FAILURE	743	1,693	2.2784	668	1,858	1.9199
157	ANAL AND STOMAL PROCEDURES W/CC	862	732	1.0588	426	397	0.9317
373	VAGINAL DELIVERY W/O COMPLICATING DIAGNOSES	64,068	31,732	0.4953	64,078	28,740	0.4173
24	SEIZURE & HEADACHE AGE >17 W/CC	1,069	1,248	1.1673	962	965	0.9824
27	TRAUMATIC STUPOR & COMA, COMA>1 HR	4,393	1,521	0.3462	498	1,183	2.3746
25	SEIZURE & HEADACHE AGE >17 W/O CC	258	434	1.6840	268	378	1.4108
238	OSTEOMYELITIS	528	341	0.6453	545	294	0.5391
484	SIGNS & SYMPTOMS W/O CC	564	2,065	3.6621	299	915	3.0593
210	HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT AGE >17 W/CC	2,186	1,908	0.8727	2,320	1,690	0.7283
268	OTHER MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE DIAGNOSES	479	726	1.5154	531	668	1.2581
151	PERITONEAL ADHESION W/O CC	239	175	0.7316	278	189	0.6073
136	CARDIAC CONGENITAL & VALVULAR DISORDERS AGE >17 W/O CC	902	1,131	1.2544	643	688	1.0385
331	OTHER KIDNEY & URINARY TRACT DIAGNOSES AGE >17 W/CC	503	489	0.9725	507	406	0.8015
363	DAC, CONIZATION & RADIO-IMPLANT, FOR MALIGNANCY	1,480	1,317	0.8896	887	503	0.7322
181	INGUINAL & FEMORAL HERNIA PROCEDURES AGE >17 W/CC	577	395	0.6840	575	323	0.5619
398	RED BLOOD CELL DISORDERS AGE 0-17	309	403	1.3034	292	312	1.0692
186	APPENDICITIS W/O COMPLICATED PRINCIPAL DIAG W/CC	580	1,704	2.9381	445	1,070	2.4043
79	RESPIRATORY INFECTIONS & INFLAMMATIONS AGE >17 W/CC	3,375	1,987	0.5898	2,917	1,402	0.4807
324	URINARY STONES W/O CC	96	167	1.7418	52	74	1.4214
117	CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT	1,049	770	0.7339	1,821	970	0.5683
178	UNCOMPLICATED PEPTIC ULCER W/O CC	103	221	2.1501	102	179	1.7502
194	BILIARY TRACT PROC EXCEPT ONLY TOT CHOLECYST W OR W/O C.D.E. W/	4,342	3,795	0.8741	4,368	3,068	0.7092
97	BRONCHITIS & ASTHMA AGE >17 W/O CC	271	928	3.4251	203	584	2.7763
48	MAJOR HEAD & NECK PROCEDURES						

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EXHIBIT A-2: COMPARISON OF FY90 RWPs AND CMIs BY DRG USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA (PRESENTED IN ORDER OF PERCENTAGE DIFFERENCE IN CMI)  
(Continued)

DRG	DESCRIPTION	Version 4 Dispositions RWPs	Version 4 CMIs	Version 8 Dispositions RWPs	Version 8 CMIs	Percentage Difference in CMI	Cumulative Share of Version 8 RWPs
270	OTHER SKIN, SUBCUT TISS & BREAST O.R. PROC W/O CC	5,627	5,236	6,050	4,555	-19.1%	81.4%
284	MINOR SKIN DISORDERS W/O CC	2,915	1,826	3,068	1,555	-19.1%	81.6%
235	FRACTURES OF FEMUR	341	522	329	406	-19.2%	81.6%
315	OTHER KIDNEY & URINARY TRACT O.R. PROCEDURES	411	1,345	437	1,153	-19.4%	81.8%
247	SIGNS & SYMPTOMS OF MUSCULOSKELETAL SYSTEM & CONN TISSUE	1,786	1,466	1,819	1,191	-20.2%	81.9%
176	COMPLICATED PEPTIC ULCER	320	403	625	1,002	-20.4%	82.0%
266	ADRENAL & PITUITARY PROCEDURES	118	353	118	2,380	-20.4%	82.1%
243	ADRENAL BACK PROBLEMS	9,498	8,065	9,498	6,405	-20.6%	82.9%
123	CIRCULATORY DISORDERS W AMI, EXPIRED	276	991	173	493	-20.6%	83.0%
375	VAGINAL DELIVERY WITH O.R. PROC EXCEPT STERIL & OR D+C	145	115	141	88	-20.7%	83.0%
201	OTHER HEPATOBILIARY OR PANCREAS O.R. PROCEDURES	104	383	104	315	-20.8%	83.1%
120	OTHER CIRCULATORY SYSTEM O.R. PROCEDURES	245	1,035	196	656	-20.8%	83.1%
38	PRIMARY IRIS PROCEDURES	74	40	75	32	-20.9%	83.1%
102	OTHER RESPIRATORY SYSTEM DIAGNOSES W/O CC	1,645	1,392	1,788	1,197	-20.9%	83.3%
48	OTHER DISORDERS OF THE EYE AGE 0-17	429	235	398	171	-21.2%	83.3%
241	CONNECTIVE TISSUE DISORDERS W/O CC	794	743	846	619	-21.8%	83.4%
323	URINARY STONES W CC, & OR ESW LITHOTRIPSY	969	978	1,432	1,126	-22.1%	83.6%
418	POSTOPERATIVE & POST-TRAUMATIC INFECTIONS	873	1,076	969	930	-22.2%	83.7%
152	MINOR SMALL & LARGE BOWEL PROCEDURES W CC	1,059	3,202	55	129	-22.6%	83.7%
171	OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W/O CC	775	1,069	721	769	-22.7%	83.8%
308	MINOR BLADDER PROCEDURES W/O CC	228	293	359	355	-23.0%	83.9%
126	ACUTE & SUBACUTE ENDOCARDITIS	95	330	97	260	-23.0%	83.9%
86	CHRONIC OBSTRUCTIVE PULMONARY DISEASE	3,955	5,819	3,999	4,528	-23.0%	84.5%
147	RECTAL RESECTION W/O CC	176	436	113	215	-23.2%	84.5%
77	OTHER RESP SYSTEM O.R. PROCEDURES W/O CC	311	638	446	701	-23.3%	84.6%
60	RESPIRATORY INFECTIONS & INFLAMMATIONS AGE >17 W/O CC	244	362	297	364	-23.5%	84.7%
86	EPISTAXIS	237	131	236	99	-24.1%	84.7%
223	MAJOR SHOULDER/ELBOW PROC, OR OTHER UPPER EXTREMITY PROC WITH C	1,645	2,111	1,304	1,258	-24.9%	84.9%
101	OTHER RESPIRATORY SYSTEM DIAGNOSES W CC	1,018	1,713	556	701	-25.0%	85.0%
455	OTHER INJURY, POISONING & TOXIC EFFECT DIAG W/O CC	1,988	1,120	2,008	846	-25.1%	85.1%
307	PROSTATECTOMY W/O CC	215	234	328	267	-25.2%	85.1%
348	BENIGN PROSTATIC HYPERTROPHY W CC	227	180	99	58	-25.6%	85.1%
28	TRAUMATIC STUPOR & COMA, COMA <1 HR AGE >17 W CC	456	861	279	391	-25.7%	85.2%
208	DISORDERS OF LIVER EXC MALIGN, CIRRH, ALC HEPA W/O CC	1,118	908	1,131	681	-25.8%	85.3%
173	DIGESTIVE MALIGNANCY W/O CC	479	746	1,151	826	-25.8%	85.4%
348	BENIGN PROSTATIC HYPERTROPHY W/O CC	263	164	393	181	-26.0%	85.4%
47	OTHER DISORDERS OF THE EYE AGE >17 W/O CC	1,621	1,124	1,670	952	-26.4%	85.5%
76	OTHER RESP SYSTEM O.R. PROCEDURES W CC	311	1,176	584	1,823	-26.5%	85.7%
420	FEVER OF UNKNOWN ORIGIN AGE >17 W/O CC	226	228	248	183	-27.0%	85.8%
394	OTHER O.R. PROCEDURES OF THE BLOOD AND BLOOD FORMING ORGANS	918	1,419	863	983	-27.3%	85.9%
287	NUTRITIONAL & MISC METABOLIC DISORDERS AGE >17 W/O CC	2,196	1,774	2,575	1,508	-27.6%	86.1%
326	KIDNEY & URINARY TRACT SIGNS & SYMPTOMS AGE >17 W/O CC	602	439	622	328	-27.6%	86.2%
188	OTHER DIGESTIVE SYSTEM DIAGNOSES AGE >17 W CC	1,950	2,701	1,008	1,010	-27.6%	86.3%
443	OTHER O.R. PROCEDURES FOR INJURIES W/O CC	1,323	2,125	1,060	1,208	-28.1%	86.5%
248	AFTERCARE, MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE	805	978	858	731	-29.9%	86.6%
454	OTHER INJURY, POISONING & TOXIC EFFECT DIAG W CC	521	1,003	503	671	-30.7%	86.6%
317	ADMIT FOR RENAL DIALYSIS	1,043	612	1,042	423	-30.7%	86.7%
384	OTHER ANTEPARTUM DIAGNOSES W/O MEDICAL COMPLICATIONS	8,256	4,016	8,134	2,737	-30.8%	87.1%
372	VAGINAL DELIVERY W COMPLICATING DIAGNOSES	6,985	6,438	6,984	4,391	-31.8%	87.7%
305	PROSTATECTOMY W CC	267	620	2,322	108	-32.5%	87.7%
73	OTHER EAR, NOSE, MOUTH & THROAT DIAGNOSES AGE >17	1,465	1,188	1,479	603	-33.0%	87.8%
446	TRAUMATIC INJURY AGE 0-17	314	235	338	167	-34.0%	87.8%
31	CONCUSSION AGE >17 W CC	188	181	137	87	-34.1%	87.8%
298	NUTRITIONAL & MISC METABOLIC DISORDERS AGE 0-17	1,871	1,261	1,808	801	-34.3%	87.9%
345	OTHER MALE REPRODUCTIVE SYSTEM O.R. PROC EXCEPT FOR MALIGNANCY	198	189	193	122	-34.4%	88.0%

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EXHIBIT A-2: COMPARISON OF FY90 RWP'S AND CMIS BY DRG USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA (PRESENTED IN ORDER OF PERCENTAGE DIFFERENCE IN CMI)  
(Continued)

DRG	DESCRIPTION	Version 4		Version 8		Percentage Difference in CMI	Cumulative Share of Version 8 RWPs
		Dispositions	CMIs	Dispositions	CMIs		
327	KIDNEY & URINARY TRACT SIGNS & SYMPTOMS AGE 0-17	171	97	105	39	0.3723	-34.5%
237	SPRAINS, STRAINS, & DISLOCATIONS OF HIP, PELVIS & THIGH	146	141	143	90	0.6317	-34.7%
362	SPLENECTOMY AGE >17	176	574	140	298	2.1286	-34.8%
81	MYRINGOTOMY WITH TUBE INSERTION AGE >17	146	195	215	186	0.8657	-35.0%
188	OTHER DIGESTIVE SYSTEM DIAGNOSES AGE >17 W/O CC	4,951	3,830	6,152	3,083	0.5012	-35.2%
87	PULMONARY EDEMA & RESPIRATORY FAILURE	157	544	231	514	2.2238	-35.8%
186	DENTAL & ORAL DIS EXCEPT EXTRACTIONS & RESTORATIONS, AGE >17	1,425	1,744	1,335	1,047	0.7842	-35.9%
18	CRANIAL & PERIPHERAL NERVE DISORDERS W CC	414	624	271	260	0.9600	-36.3%
168	MOUTH PROCEDURES W/O CC	4,062	4,235	1,306	866	0.6631	-36.4%
445	TRAUMATIC INJURY AGE >17 W/O CC	1,346	1,218	1,518	861	0.5668	-37.4%
343	CIRCUMCISION AGE 0-17	2,478	1,781	1,911	836	0.4376	-38.1%
200	HEPATOBLIARY DIAGNOSTIC PROCEDURE FOR NON-MALIGNANCY	174	637	166	369	2.2220	-38.3%
153	MINOR SMALL & LARGE BOWEL PROCEDURE W/O CC	3,092	5,916	269	308	1.1457	-40.1%
424	O.R. PROCEDURE W PRINCIPAL DIAGNOSES OF MENTAL ILLNESS	298	1,478	245	720	2.9385	-40.7%
283	OTHER ENDOCRINE, NUTRIT & METAB O.R. PROC W/O CC	79	166	83	94	1.1306	-46.4%
182	PANCREAS, LIVER & SHUNT PROCEDURES W/O CC	156	1,009	117	363	3.1056	-52.0%
168	MOUTH PROCEDURES W CC	645	1,440	135	140	1.0343	-53.7%
128	CARDIAC ARREST, UNEXPLAINED	141	727	145	319	2.2015	-57.3%
83	MAJOR CHEST TRAUMA W CC	102	307	3,070	84	1.2777	-57.5%
7	PERIPH & CRANIAL NERVE & OTHER NERV SYST PROC W CC	180	1,436	116	343	2.9608	-62.9%
411	HISTORY OF MALIGNANCY W/O ENDOSCOPY	108	146	1,3532	82	39	0.4764
616	NEONATE, BIRTH-WT 2000-2499G, W SIGNIF OR PROC, W MULT MAJOR PRO				14	148	10.5977
617	NEONATE, BIRTH-WT 2000-2499G, W SIGNIF OR PROC, W MULT MAJOR PR				86	331	8.8465
615	NEONATE, BIRTH-WT 2000-2499G, W SIGNIF OR PROC, W MULT MAJOR PROB				14	129	9.2491
614	NEONATE, BIRTH-WT 1500-1999G, W/O SIGNIF OR PROC W OTHER PROB				320	452	1.4124
620	NO LONGER VALID						
621	NEONATE, BIRTH-WT 2000-2499G, W/O SIGNIF OR PROC, W OTHER PROB				1,188	579	0.4880
618	NEONATE, BIRTH-WT 2000-2499G, W/O SIGNIF OR PROC, W MAJOR PROB				181	428	2.3660
619	NEONATE, BIRTH-WT 2000-2499G, W/O SIGNIF OR PROC, W MINOR PROB				177	258	1.4549
608	NEONATE, BIRTH-WT 1000-1499G, DIED				13	229	17.5799
608	NEONATE, BIRTH-WT 1500-1999G, W SIGNIF OR PROC, W MULT MAJOR PRO				18	186	10.3269
606	NEONATE, BIRTH-WT 1000-1499G, W SIGNIF OR PROC, DISCHARGED ALIVE				21	302	14.3627
607	NEONATE, BIRTH-WT 1000-1499G, W/O SIGNIF OR PROC, DISCHARGED ALI				268	1,740	6.4935
612	NEONATE, BIRTH-WT 1500-1999G, W/O SIGNIF OR PROC, W MAJOR PROB				162	646	3.9880
613	NEONATE, BIRTH-WT 1500-1999G, W/O SIGNIF OR PROC, W MINOR PROB				121	281	2.3205
610	NEONATE, BIRTH-WT 1500-1999G, W SIGNIF OR PROC, W MULT MAJOR P				5	40	7.9708
611	NEONATE, BIRTH-WT 1500-1999G, W/O SIGNIF OR PROC, W MULT MAJOR P				98	547	5.5824
622	NEONATE, BIRTH-WT >2499G, W SIGNIF OR PROC, W MULT MAJOR PROB				109	1,173	10.7596
633	MULTIPLE, OTHER AND UNSPECIFIED CONGENITAL ANOMALIES, W CC				17	28	1.6367
634	MULTIPLE, OTHER AND UNSPECIFIED CONGENITAL ANOMALIES, W/O CC				51	119	2.3290
631	BPD AND OTH CHRONIC RESPIRATORY DISEASES ARISING IN PERINATAL P				47	280	5.9532
900	OTHER RESPIRATORY PROBLEMS AFTER BIRTH				56	43	0.7706
901	ALC/DRUG ABUSE OR DEPEND, DETOX OR OTH SYMPT TREAT AGE <=21 W/O				3,260	6,257	1.9193
901	ALC/DRUG ABUSE OR DEPEND, DETOX OR OTH SYMPT TREAT AGE > 21 W/O				9,519	13,260	1.3630
636	NEONATAL AFTERCARE FOR WEIGHT GAIN				7	9	1.2606
638	NEONATAL DIAGNOSIS AGE > 28 DAYS				361	2,067	5.8886
625	NO LONGER VALID						
628	NEONATE, BIRTH-WT >2499G, W/O SIGNIF OR PROC, MULT MAJOR PROB				675	2,874	3.9609
623	NEONATE, BIRTH-WT >2499G, W SIGNIF OR PROC, W/O MULT PROB				264	855	3.3655
624	NEONATE, BIRTH-WT >2499G, W MINOR ABDOM PROCEDURE				75	67	0.9897
629	NO LONGER VALID						
630	NEONATE, BIRTH-WT >2499G, W/O SIGNIF OR PROC, W OTHER PROB				16,654	3,215	0.1930
627	NEONATE, BIRTH-WT >2499G, W/O SIGNIF OR PROC, W MAJOR PROB				2,870	3,243	1.1301
628	NEONATE, BIRTH-WT >2499G, W/O SIGNIF OR PROC, W MINOR PROB				3,515	2,180	0.6203
474	RESPIRATORY SYSTEM DIAG W/TRACHEOSTOMY (NOT VALID IN VERSION B)						

--Continued--

EXHIBIT A-2: COMPARISON OF FY90 RWPs AND CMIs BY DRG USING VERSION 4 VERSUS VERSION 8 WEIGHTS AND OUTLIER CRITERIA (PRESENTED IN ORDER OF PERCENTAGE DIFFERENCE IN CMI)  
(Concluded)

DRG	DESCRIPTION	Version 4		Version 8		Percentage Difference in CMI	Cumulative Share of Version 8 RWPs
		Dispositions	RWPs	Dispositions	RWPs	CMIs	
475	RESPIRATORY SYSTEM DIAGNOSIS WITH VENTILATOR SUPPORT	---	---	---	---	---	---
395	NEONATES, DIED OR TRANSFERRED (NOT VALID IN VERSION 8)	1,801	2,067	1,1478	---	4,3634	95.3%
109	NO LONGER VALID	249	1,352	5,4304	---	---	95.3%
476	OTHER VASCULAR PROCEDURES W CC	---	---	---	598	2,124	95.6%
479	OTHER VASCULAR PROCEDURES W/O CC	---	---	---	555	990	95.8%
476	PROSTATIC O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS	---	---	---	44	113	95.8%
477	NON-EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS	---	---	---	2,415	3,540	96.3%
103	HEART TRANSPLANT	0	0	---	0	---	96.3%
390	NEONATE WHOSE SIGNF. PROBLEM (NOT VALID IN VERSION 8)	12,428	2,895	0,2329	---	---	96.3%
439	NO LONGER VALID	---	---	---	---	---	96.3%
436	ALCOHOL, DETOX OR OTH SYMPT W/OCC (NOT VALID IN VERSION 8)	7,565	7,708	1,0189	---	---	96.3%
397	PREMATURITY W MAJOR PROBLEMS (NOT VALID IN VERSION 8)	1,568	3,140	2,0025	---	---	96.3%
398	EXTREME INMAT. OR RESP. DISTRESS SYND (NOT VALID IN VERSION 8)	727	3,321	4,5681	---	---	96.3%
399	FULL TERM NEONATE W MAJOR PROBLEMS (NOT VALID IN VERSION 8)	7,514	4,048	0,5387	---	---	96.3%
398	PREMATURITY W MAJOR PROBLEMS (NOT VALID IN VERSION 8)	2,285	2,020	0,8639	---	---	96.3%
480	LIVER TRANSPLANT	---	---	---	7	206	96.3%
600	NEONATE, DIED W IN ONE DAY OF BIRTH	---	---	---	228	175	96.3%
601	NEONATE, TRANSFERRED <8 DAYS OLD	---	---	---	1,115	382	96.4%
499	HV W MAJOR RELATED CONDITION	---	---	---	635	2,493	96.7%
490	HV W OR WHO OTHER RELATED CONDITION	---	---	---	1,454	3,440	97.2%
604	NEONATE, BIRTHWT 750-999G, DISCHARGED ALIVE	---	---	---	73	972	97.3%
605	NEONATE, BIRTHWT 750-999G, DIED	---	---	---	14	190	97.3%
602	NEONATE, BIRTHWT <750G, DISCHARGED ALIVE	---	---	---	60	1,285	97.5%
603	NEONATE, BIRTHWT <750G, DIED	---	---	---	24	346	97.6%
483	TRACHEOSTOMY EXCEPT FOR MOUTH, LARYNX OR PHARYNX DISORDER	---	---	---	556	11,480	98.1%
484	CRANIOTOMY FOR MULTIPLE SIGNIFICANT TRAUMA	---	---	---	24	205	98.1%
481	BONE MARROW TRANSPLANT	---	---	---	48	754	98.2%
482	TRACHEOSTOMY W MOUTH, LARYNX OR PHARYNX DISORDER	---	---	---	288	1,519	98.5%
487	OTHER MULTIPLE SIGNIFICANT TRAUMA	---	---	---	279	913	98.6%
488	HV W EXTENSIVE O.R. PROCEDURE	---	---	---	50	240	98.6%
486	LIMB REATTACHMENT, HIP AND FEMUR PROC FOR MULTIPLE SIGNIFICANT	---	---	---	101	654	98.7%
488	OTHER O.R. PROCEDURES FOR MULTIPLE SIGNIFICANT TRAUMA	---	---	---	346	2,218	100.0%
TOTAL		866,875	749,829	0,8591	866,599	735,950	-1.0%

