

In summary, these results indicated an understandable instrument which adequately measured the subjects knowledge. The pilot survey was effectively reduced to 20 items which were determined to be reliable, valid, and more appealing to direct health care providers. Many subjects commented they did not feel comfortable with the issues of reimbursement based on DRG's. Others felt much was needed in the way of training and planning before the implementation of a DRG based reimbursement payment system.

Results of WBAMC's Staff

A sample of the staff assigned to the Departments of Medicine, Surgery and Nursing at WBAMC was surveyed during the November 1989 - December 1989 period. The results are reported in three main parts for ease in explanation. The first part includes the results of the descriptive statistics on the background (demographic) items, followed by comments clustered by the researcher and obtained from the open ended questions. Part two reports the results of the inferential statistics comparing the three groups and finally, the third part concludes with a discussion of the survey's inability to discriminate item responses analyzed across all twenty items.

Descriptive Statistics

The staff's age group ranged from a low of 22 years to a high of 52 years of age. Rank ranged from Captain to Colonel, Majors comprised the median. Years of service (YRSSVC), ranged from a low of one year to a high of 23 (see Table 10).

within WBAMC which treats substance abuse patients both active duty and civilians. This facility also sponsors several Alcoholic Anonymous, Narcotics Anonymous, and Adult Children of Alcoholics meetings attended by members of the Fort Bliss and El Paso community.

VALIDITY- A valid instrument is one which measures what it is supposed to measure and is epitomized by the question: Are we measuring what we think we are measuring?

APPENDIX F
DRG COORDINATOR

DRG COORDINATOR

The DRG coordinator will be primarily concerned with the continual transition of WBAMC's medical staff to DRGs. The DRG coordinator will act in a staff capacity to the DRG committee. The DRG coordinator will collaborate with administration and the clinical staff to improve productivity and manage resource utilization. Moreover, the coordinator will correlate those functions and projects under the DRG's committee direct control.

Major specific responsibilities

Will coordinate departmental clinical efforts to function within DRG's. The DRG coordinator will establish good working among the diverse group of direct health care providers. This individual may serve in an administrative and clinical capacity relative to the implementation and monitoring of the procedures and systems necessary for WBAMC to operate successfully under DRG's. Specific responsibilities will include:

1. Liaison between administration, resource management, clinical services, medical records, and other departments directly affected by DRG's.
2. Coordinate information flow between WBAMC and regulatory agencies.
3. Monitor the preparation and submission of DRG related reports.
4. Prepare educational materials for in-service training for WBAMC's staff, and beneficiaries.
5. Monitor physician medical records attestation.

APPENDIX G
HEALTH CARE ANALYST

HEALTH CARE ANALYST

Under the direction of the Deputy Commander for Clinical Services and working in the quality assurance office, the health care analyst will act in the capacity of advisor to the DRG committee. Moreover, the analyst will coordinate statistical reports and projects that the committee determines to be essential to managing under DRGs.

Major specific responsibilities

This individual will be extremely crucial during early implementation efforts. Therefore, the analyst must be involved in evaluating, analyzing and monitoring current systems operating at WBAMC to determine quantitatively and qualitatively, methods by which WBAMC can transition to DRGs. To accomplish this the analyst will be responsible for:

1. Compiling and analyzing medical records data.
2. Establishing statistical formats and reports for trend analysis.
3. Identifying problems areas within WBAMC's patient care delivery system.
4. Discerning problems clinicians cause from those that are caused by inadequate systems.
5. Monitoring comparative data (length of stay, principle diagnosis) with Department of Defense guidelines.
6. Collecting data for special WBAMC resource consumption and utilization studies.

A Study to Assess

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**APPENDIX H
FACT SHEET**

S T A R

Strategic Training Assessment Restructuring

What is STAR ?

STAR is a planning strategy emphasizing existing systems within WBAMC to position the hospital during and after implementation of DRG's. STAR maximizes the management process to focus on the participants involved in the delivery of health care by providing the commander and middle management decision assisted tools necessary to examine the way DRG reimbursement will alter current and future resource allocation planning.

Will STAR impact the entire organization ?

Properly implemented and utilized, STAR will improve the DRG planning process because it commits the entire organization to serve the needs of the regional military community by restructuring the hospital towards provide quality care within available resources.

Will the use of STAR really make a difference ?

Because STAR was developed using input from the hospital's staff, STAR fully exploits the use of structure, process, and outcomes. It calls for the effective utilization of internal and external analysis and the development of strategic options to assess DRG knowledge deficit, to develop scenarios to teach DRG's and to identify actions to restructure the organization to manage under a budget allocation system.

How can we ensure that STAR will work ?

For STAR to work it must receive command commitment. Top commitment is the most essential principle underlying implementation of STAR.

Who will be selected to ensure implementation of STAR ?

Departmental chiefs and key physicians will need to be co-opted into the planning effort and must have a voice in shaping the desired output.

What comes next ?

The STAR concept calls for the establishment of new key players such as the DRG committee. This committee will then craft the vision by which the organization will bring the best minds and services to bear on this significant undertaking.

APPENDIX I
PUBLIC AFFAIRS RELEASE

WBAMC IMPLEMENTS STAR

Strategic planning, training, assessment, and restructuring (STAR) is a key strategic response at William Beaumont Army Medical Center for the 1990's. Current cost containment and dwindling resource issues within the military health care environment has prompted this initiative. STAR is a corporate strategy derived from a vision that states " this hospital is a unmatched health care facility, poised to deliver tertiary patient care services through the collaboration of patients, and staff while adapting organizational structure in the continual pursuit of quality care."

BG Proctor, the MEDCEN Commander is committed to improving the delivery of health care services at WBAMC during the present resource containment era. Implementation of this concept will involve methods to effect a change in current practice patterns, a reduction or limited issue of medical supplies, a reduction in the amount of refill medications and restructuring of current resources required to conduct daily patient care activities.

Articulating everyone's responsibility in accomplishing this concept is tantamount to the successful implementation of STAR. The entire WBAMC community-physicians, administrative and ancillary staff, and patients, are enjoined towards optimizing medical care delivery at WBAMC. POC for additional information is MAJ Henry Hernandez at 569-2450.

APPENDIX J
PILOT SURVEY

DRG Assessment Questionnaire

Dear Respondent: Please help us by taking a moment to complete and return this questionnaire. The purpose of this survey is to assess your knowledge of DRG's. Please provide the information requested below. Do not write your name anywhere on the survey form. In responding to the questions, please place an X in the black that is provided. Please answer all questions. All responses will be kept confidential. The data collected in this survey will be used to assist in recommending future training requirements in transition to DRG's. Your cooperation is greatly appreciated.

1. How old are you?

- Less than 25 years of age _____
- More than 25 years of age but less than 30 _____
- More than 30 but less than 40 _____
- More than 40 years of age _____

2. What is your sex? Male _____ Female _____

3. What is your principle duty position? _____

- Department/Section Chief _____
- Supervisor/Headnurse _____
- Staff nurse _____
- Other (specify) _____

4. My present nursing position is:

- Administration _____
- Supervision _____

Intensive care	_____
Ambulatory care	_____
Community health	_____
Operating room/Anesthetist	_____
Other (specify)	_____
5. Highest educational level:	
Bachelors	_____
Masters	_____
Doctoral	_____
6. Time in active federal service as a nurse?	
Less than two years	_____
More than two years but less than five years	_____
two years but less than five years	_____
More than five years but less than 10 years	_____
More than 10 years but less than 15 years	_____
More than 15 years	_____

7. My current rank is:

- Colonel _____
- LTC _____
- Major _____
- Captain _____
- 1st Lieutenant _____
- 2nd Lieutenant _____

8. Geographic area in which basic nursing curriculum took place:

- North _____
- South _____
- East _____
- West _____
- Other (specify) _____

Each question has only one correct answer. Do not omit any questions. In responding to each question, please circle on answer.

General Knowledge

1. DRG's stand for Diagnostic Resource Groupings.

True or False

2. The major components used in determining DRG's are principal diagnosis, principal and other procedures, age, sex, discharge status and number of acute care days.

True or False

3. DRG's were originally developed by researchers at Yale University as a method to improve utilization review efforts.

True or False

4. A major disadvantage of DRG's are that they group patients into categories asserted to be homogenous on the basis of length of stay.

True or False

5. DRG's have little or no role outside a financial system.

True or False

6. Once a fully costed DRG system becomes available, questions of clinical inefficiency will be resolved.

True or False

7. DRG's can serve as a foundation for ongoing quality assurance and utilization review programs.

True or False

8. Inliers are patients who have atypically short or long length of stays, while outliers are those patients who have typically short length of stay.

True or False.

9. The federal government adopted the DRG system for Medicare patients in the early 1980s.

True or False.

10. The intellectual origins of the DRG methodology are in industrial management.

True or False.

11. Because military facilities are not concerned with profits, DRG's have no

applicability in our system.

True or False.

12. Congress mandated that DRG's be implemented in the Armed Services by October 1, 1988.

True or False.

Impact

1. DRG's can provide administrators and clinical staff useful management information.

True or False.

2. Under DRG's, adequate support staff patterns will be identified.

True or False.

3. DRG's may discourage the acquisition of advanced technology.

True or False.

4. The staff is likely to increase after the DRG system is implemented.

True or False.

5. DRG generated data will shed new light on the costs of alternative treatment regimens.

True or False.

6. DRG's may yield information useful in the prosecution of malpractice claims.

True or False.

7. Under DRG's hospitals will have to reexamine their goals, priorities, and strategic plans.

True or False.

8. Under DRG's military current medical practice patterns are expected to change.

True or False.

9. DRG's will cause department managers to develop skills to forecast departmental needs more accurately.

True or False.

10. Because of financial constraints, management will be required to emphasize departmental performance.

True or False.

11. A hospital's ability to respond to DRG's will depend on the ability of administration to transmit prospective payment system incentives to attending physicians.

True or False.

12. DRG-based statistical output will not provide nursing departments considerable information about the cost, revenue and profitability of nursing care.

True or False.

Documentation

1. Once the principal diagnosis has been determined alterations in treatment plans will have minimal impact on the hospitals reimbursement.

True or False

2. DRG's generated data can assist infection control programs.

True or False.

3. DRG's do not require more accurate documentation of resources consumed in providing patient care.

True or False.

4. DRG's will require less attention to clerical notation, particularly with respect to the completion of patients' records.

True or False.

5. DRG's makes it more imperative for nurses and physicians to complete their charts in a timely and accurate manner.

True or False.

6. Providers can expect administration to question their notes under a DRG system.

True or False.

7. Under DRG's efforts to identify, measure and contain costs will be hampered by the absence of appropriate information.

True or False.

8. DRG's will place additional emphasis on accurate and fully documented secondary diagnosis.

True or False.

9. Providers who suspect that medical records are incomplete or inaccurate will not be expected to confer with attending or consulting physicians.

True or False.

Case-Mix Index

1. The development of a case-mix index is an intricate and complex task.

True or False.

2. To ensure full financial collection, hospitals must not alter their data collection systems.

True or False.

3. DRG's are organized in a hierarchical manner so that the terminal diagnostic groups can be collapsed into fewer categories.

True or False.

4. DRG's result in an unmanageable number of diagnostic categories.

True or False.

5. DRG's attempt to describe patterns of resource consumption in terms of the similarities among and differences between patients.

True or False.

6. Case-mix provides a "common language", merging patterns of actual clinical management with identifiable costs.

True or False.

7. The goal of a case-mix system is to avoid grouping patients whose care requires dissimilar resources.

True or False.

Cost Containment Issues

1. DRG generated information will be used to develop financial profiles for clinical programs which will assist administration to look at clinical programs in terms of types, volume and cost of treatment programs.

True or False.

2. DRG generated information will not benefit administration in determining how

much of the hospital's resources (laboratory, radiology, respiratory therapy) are being used for each DRG.

True or False.

3. DRG's represent a continual provider effort to minimize costs and to conserve resources.

True or False.

4. DRG's help the hospital identify, plan for, and assign resources to the sets of treatment services offered to its patients.

True or False.

5. Hospitals fail to gain from cost containment efforts through receipt of incentive payments when length of stay is lower than average.

True or False.

6. Hospitals experience dis-incentives when costs exceed the standard.

True or False.

7. The military DRG system will have a significant impact on current resource funding.

True or False.

8. Under DRG's the Department of Defense will only reimburse medical treatment facilities a fixed amount of money to treat a certain category of patient.

True or False.

9. The new system was developed in response to rising health care costs to Department of Defense.

True or False.

10. DRG's represent an attempt to give medical treatment facilities an incentive to treat patients more economically and thus reduce costs.

True or False.

11. Medical treatment facilities will be grouped with other hospitals utilizing similar resources, and staffing requirements, but may be located in different geographic locations.

True or False.

12. Military administrators must know their hospital costs per DRG and how those costs compare to DRG price levels established by the Department of Defense.

True or False.

Thank You For Your Support.

APPENDIX K
STAFF SURVEY

DRG ASSESSMENT QUESTIONNAIRE

Dear Respondent:

Please help us by taking a moment to complete and return this questionnaire. The purpose of this survey is to assess your knowledge of DRG's. Please provide the information requested below. Do not write your name anywhere on the survey form. Please answer all questions. All responses will be kept confidential. The data collected in this survey will be used to assist in recommending future training requirements during transition to DRG's. Your cooperation is greatly appreciated.

Survey Instructions

DO NOT WRITE YOUR NAME ANYWHERE ON THE SURVEY FORM.

All responses will be in the form of TRUE or FALSE except for responses in the area titled Demographic Data, which require that you place an X in the blank that is provided. In responding to all other questions, please circle the correct answer.

Each question has only one correct answer. Your cooperation is greatly appreciated.

PLEASE ANSWER ALL OF THE QUESTIONS.

Demographic Data

1. How old are you?

years _____

2. What is your sex? Male _____ Female _____

3. What is your principle duty position?

Staff _____ Nurse _____
Resident _____
Intern _____

4. Highest educational level:

Bachelors _____
Masters _____
Doctoral _____

5. Total Military or Federal Service in years ?

6. My current rank is:

Colonel _____
LTC _____
Major _____
Captain _____
1LT/2LT _____

7. Geographic area in which basic college degree was obtained (U.S. or specify other).

North _____
South _____
East _____
West _____
Other (specify) _____

8. Have you recently attended a workshop or seminar dealing with any aspect of the DRG system ?

yes _____ No _____

Each question has only one correct answer. Do not omit any questions. In responding to each question, please circle an answer.

G-1. DRG's have little or no role outside a financial system.

T F

G-2 Once a fully costed DRG system becomes available, questions of clinical inefficiency will be resolved.

T F

G-3 DRG's can serve as a foundation for ongoing quality assurance and utilization review programs.

T F

G-4 Because military facilities are not concerned with profits, DRG's have no applicability in our system.

T F

I-1 DRG's can provide administrators and clinical staff useful management information.

T F

I-2 DRG's will cause department managers to develop skills to forecast departmental needs more accurately.

T F

I-3 Because of financial constraints, management will be required to emphasize departmental productivity.

T F

I-4 Data derived from DRG's will not provide nursing departments considerable information about the cost, revenue, and profitability of nursing care.

T F

D-1 DRG's do not require more accurate documentation of resources consumed in providing patient care.

T F

D-2 DRG's will require less attention to clerical notation, particularly with respect to the completion of patients' records.

T F

D-3 Providers can expect administration to question their notes under a DRG system.

T F

D-4 DRG's will place additional emphasis on accurate and fully documented secondary diagnosis.

T F

M-1 An estimated 2 years of development time may be required to set up a cost accounting system for case-mix analysis.

T F

M-2 DRG's attempt to describe patterns of resource consumption in terms of the similarities among and differences between patients.

T F

M-3 Case-mix by DRG holds the physician as well as the administrator accountable for the cost of medical care.

T F

M-4 One of the first uses of the cost accounting data produced by a case-mix system will be to verify the case-mix index.

T F

C-1 DRG generated information will be used to develop financial profiles for clinical programs which will assist administration to look at clinical programs in terms of types, volume and cost.

T F

C-2 DRG's will not benefit administration in determining how much of the hospital's resources (laboratory, radiology, respiratory therapy) are being consumed.

T F

C-3 DRG's help the hospital identify, plan for, and assign resources to the sets of treatment services offered to its patients.

T F

C-4 Military administrators must know their hospital costs per DRG and how those

costs compare to DRG price levels established by the Department of Defense.

T F

What method of instruction would you recommend for teaching DRG skills for health care professionals?

Commitment and involvement is a first and most essential principle underlying transition to DRG's, therefore what elements/initiatives do you consider important in shaping the transformation process?

Thank You For Your Support.