MIPR NO: 91MM1502

TITLE: A PROSPECTIVE EVALUATION OF STRESS FRACTURES/OVERUSE INJURIES IN A POPULATION OF WEST POINT CADETS

PRINCIPAL INVESTIGATOR: Jack Ryan, M.D.

CONTRACTING ORGANIZATION: Keller Army Community Hospital
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Fort Detrick, Frederick, Maryland 21702-5012

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The findings in this report are not to be construed as an official Department of the Army position unless so designated by other authorized documents.
The study group successfully performed two evaluations during this period. The new dual energy x-ray bone densitometer machine was updated with new software.
1. Contract Number: 8916011 (MIRP#: 91MM1502)

2. Principal Investigator: Colonel Jack Ryan MD, Maj Charles Scoville PT (local PI).

3. Date of Report: 30 December 1992

4. Report year from: December 91 through December 92.

5. Address: Col. Jack Ryan MD Maj. Charles Scoville
   MTR Division Chief, Physical Therapy
   LAIR MEDDAC
   PSF, Ca. 94129 West Point, NY 10996
   Tel.415-561-5816 Tel.914-938-4733

7. Project Title: Evaluation of Stress Fractures/Overuse Injuries in a Population of West Point Cadets.

8. Current Staff, with percent of effort of each on project:

   Col Jack Ryan Principal Investigator 15%
   Maj Charles Scoville Co-investigator 10%
   Maj Dean Taylor Co-investigator 5%
   Dan Brooks Co-investigator 15%
   SGT Janis Loveday Co-investigator 15%
   Marjorie Hunt Co-investigator 15%
   Dr. Copley Co-investigator 5%
   Dr. Linburg Co-investigator 10%
   James Swain Co-investigator 5%
   Cindy McClintoc Co-investigator 5%
   Maj John Uhorchek Co-investigator 5%
   Mrs Ruth Travers secretary phy therapy 5%
   Ms Jane Reddington secretary CI 5%

9. Administrative and Logistic matters: The study group successfully performed two evaluations during this period. The new dual energy x-ray bone densitometer machine was updated with new software.

10. Summary of expenditures:
   Personnel: as noted in #8.
   Personnel: TDY for evaluation team
   Equipment: Lunar PX delivered May 91
Supplies: n/a
Funds: $28,479.63 committed

11. Scientific Progress during year 91-92:
The study group performed two evaluations during this period.
175 cadets remain in the study. Nonparticipant are primarily
due to resignation from the Academy. Lower extremity injuries
have equalized in the two groups. There were more upper
extremity injuries in men than in women from January 92 to
August 92. Bone density and laboratory values are being
processed and automated.

Continue to analyze data. Perform evaluation during 18-21
January 1993 and capture data on injuries up to graduation
during the Spring 1993. Present findings of study to the
command at USMA during the Fall 1993. Submit final report to
MRDC six months following final data collection.