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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
Chief of Physical Therapy
West Point, New York 10996-1197

REPORT DATE: December 30, 1992

TYPE OF REPORT: Annual Report

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PREPARED FOR: U.S. ARMY MEDICAL RESEARCH AND DEVELOPMENT COMMAND
Fort Detrick, Frederick, Maryland 21702-5012

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MEDICAL RESEARCH AND DEVELOPMENT COMMAND

ANNUAL REPORT

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
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 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

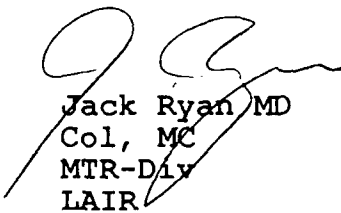
Supplies: n/a
Funds: \$28,479.63 committed

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.

12. Plan for the next year.

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.


Jack Ryan MD
Col, MC
MTR-Div
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