



TECHNOLOGIST SECTION REPRODUCTION FORM
for Abstracts, Short Commentaries, Issue Responses & Exhib
for Presentation at the 30th Annual Meeting
of the Society of Nuclear Medicine
in St. Louis, MO, June 7-10, 1983

*Do Not Fold or Bend This Form above the Dotted Line
Type Abstract in Box Below (Be Sure to Stay Within Border)*

REGORIZATION:
Please check only one of the following boxes:

This is an abstract of a scientific paper (please
circle only one of the following categories):

- Instrumentation
- Computers
- Radioassay
- Radiopharmacology
- Clinical (circle one of the following):
 - Cardiovascular
 - Gastroenterology
 - Other _____
- Radiation safety
- Quality assurance
- Other _____

This is a short commentary (please circle
one of the following subject categories):

- Management and administration
- Training and education
- Communication (with physicians, peers
and patients)
- Socio-economic affairs

This is a response to one of the
following issues:

- Should technologists support
commercial, centralized radio-
pharmacies or in-house radiopharmacies?
- Should technologists support college
degree or hospital-based
education programs?
- Should technologists perform RIA tests
or let labs take over?

This is a scientific or informational exhibit.

DEADLINES:
Abstracts, commentaries and
responses: reproduction
must be received (not
marked) by Monday, January
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exhibits: reproduction form
must be received (not post-
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7, 1983.

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EVALUATION OF ASYMPTOMATIC MALE PATIENTS USING THE MULTI-
GATED ACQUISITION METHOD AND FIRST-HARMONIC PHASE ANALYSIS.
L. M. Holt, G. K. Neufeld, G. M. McGranahan, T. D. Kay,
D. L. Johnson, D. Romo, S. J. Riahi, and J. L. Hodge.
USAF School of Aerospace Medicine, Brooks Air Force Base,
Texas 78235.

The use of Exercise Multi-Gated Acquisition (MUGA) and
First-Harmonic Phase Analysis (FHFA) studies as a screen-
ing test for Coronary Artery Disease (CAD) in asymptomatic
males was evaluated prospectively.

The MUGA studies consisted of dynamic display of wall
motion using Threshold Edge Detection and Ejection Frac-
tions calculated with MDS A² software. The FHFA studies
are Fourier Phase Analysis in Periodic Function Analysis.

Exercise MUGA and FHFA studies were obtained prior to
Coronary Angiography (CA) in 15 asymptomatic male aircrew
members (Mean age: 44 ± 4.6 yrs.) screened for CAD. 10
of the patients had no CAD found at CA. All 10 had normal
MUGA's and 9 of the 10 had normal FHFA's. 5 patients had
CAD. All had normal MUGA's and 3 of the 5 had normal
FHFA's. No wall motion abnormalities were noted in any of
the 15 patients.

This is an ongoing study. Our preliminary results
suggest that Exercise MUGA and FHFA studies are insensi-
tive in detecting CAD in asymptomatic men.

TYPE FULL NAME OF AUTHOR PRESENTING PAPER

LAWRENCE M. HOLT

EXAMPLE

THE EFFECT OF BACTERIOSTATIC SALINE ON Tc-99m
LABELED RADIOPHARMACEUTICALS. K.T. Study, H.W.
Schultz, and D.L. Laven. University of New Mexico,
Albuquerque, NM.

This study was undertaken to investigate the
effect of bacteriostatic saline on....