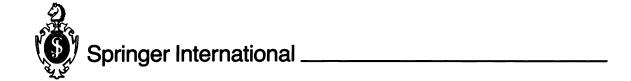
European Journal of

Nuclear Medicine___

Volume 18 Number 4 1991

Editorial	
The renal transplant perfusion index: Where are we now? Hilson AJW	227
Original articles	
Relationships between oesophageal transit and solid and liquid gastric emptying in diabetes mellitus Horowitz M, Maddox AF, Wishart JM, Harding PE, Chatterton BE, Shearman DJC	229
Optimising technetium 99m diethylene triamine penta-acetate lung clearance in patients with the acquired immunodeficiency syndrome Van der Wall H, Murray IC, Jones PD, Mackey DWJ, Walker BM, Monaghan P	235
Clinical significance of the measurement of hepatic blood flow using xenon 133 an	
balloon catheter in patients undergoing treatment for hepatocellular carcinoma Miyauchi S, Yasuhara Y, Ohta Y	241
Technetium 99m SESTAMIBI myocardial perfusion imaging: comparison between treadmill, dipyridamole and trans-oesophageal atrial pacing "stress" tests in norm subjects	al
Primeau M, Taillefer R, Essiambre R, Lambert R, Honos G	247
Comparative study of three different approaches on the estimation of the lung-hea ratio in thallium 201 scintigrams in relation to the extent of coronary artery disease and left ventricular function Ilmer B, Reijs AEM, Fioretti P, Reiber JHC	rt 252
Parametric imaging of cerebral vascular reserve. 2. Reproducibility, response to Co	
and correlation with middle cerebral artery velocities	-
Naylor AR, Merrick MV, Slattery JM, Notghi A, Ferrington CM, Miller JD	259
In vivo and in vitro studies into the immunological changes following iodine 131 therapy for Graves' disease	
Wilson R, McKillop JH, Jenkins C. Thomson JA	265
Short communication	
Evaluation of therapeutic response using iodine-131-B72.3 monoclonal antibody in patients with ovarian carcinoma	1
Camera L, Del Vecchio S, Petrillo A, Esposito G, Frasci G, Iaffaioli RV, Bianco AR, Salvatore M	269

Continued on the inside cover





Volume 18 Number 4 1991

Continued from the last cover page

Review article	
Quantification of renal haemodynamics with radionuclides Peters AM	274
Letters to the editor	
Vth Congress of Nuclear Medicine and Biology Lebel E, Rosenthall L	287
Dosimetry of swallowed non-absorbed technetium 99m radiopharmaceuticals in	
paediatric patients Stabin MG, Stubbs JB, Watson EE	288
Dosimetry in paediatrics Wynchank S	290
PET reflections Buell U	293
News & Views	295
Book reviews	301
Announcements	303

Indexed in Current Contents
Evaluated and abstracted for Energy on STN



The Society of Nuclear Medicine

Organization

The Society of Nuclear Medicine (SNM) is a multi-disciplinary organization of physicians, physicists, chemists, radiopharmacists, technologists, and others interested in the diagnostic, therapeutic, and investigational use of radiopharmaceuticals. Founded in Seattle, Washington in 1954, it is the largest scientific organization dedicated to nuclear medicine.

Objectives

Maintain an organization supported by professionals of varied backgrounds who have a common interest in the clinical and scientific discipline of nuclear medicine:

- Hold meetings and seminars to communicate new knowledge acquired and provide continuing medical education;
- Advance the highest standards in the practice of nuclear medicine;
- Disseminate information by means of journals, books, monographs, and audiovisuals;
- Promote and maintain the highest standards of education and research;
- Address socio-economic and governmental issues that may significantly affect the nuclear medicine profession.

Society Society Society Medicine

Membership Categories

FULL members are physicians or scientists with an advanced degree who have valid credentials indicating their professional interest: either medical, paramedical, investigational, or educational, in the scientific or clinical disciplines concerned with the use of radionuclides. Members have the right to vote and to hold elective office.

ASSOCIATE members are scientists or technologists with a BA or BS or equivalent qualifications as determined by the Committee on Credentials and Membership, and who have valid credentials indicating their professional interest, either paramedical, investigational, or educational, in the scientific or clinical disciplines concerned with the use of radionuclides. Associate members have the right to vote but may not hold elective office, unless otherwise provided.

TECHNOLOGIST members are those who have valid credentials indicating their professional interest, either paramedical, investigational, or educational, in the technology of the scientific or clinical disciplines concerned with the use of radionuclides. Technologist members do not have the right to vote or to hold elective office, unless otherwise provided. They do, however, become automatic members of the Technologist Section and have voting rights in the Section.

AFFILIATE members are persons who have an active interest in the objectives of the Society and who are not qualified for other categories of membership.

IN-TRAINING members are those who present adequate documentation that they are intraining, who qualify for a category of membership other than Affiliate, and who may be admitted to membership as an in-training Full, Associate, or Technologist member. Such members (in-training) may not vote or hold elective office and shall pay annual dues at a reduced rate established by the Board. Upon termination of the "in-training" status, in-training members will automatically become Full, Associate, or Technologist members, as appropriate.

Chapters

The Society is composed of individuals who are members of 16 regional chapters throughout the United States and Canada. Those who do not reside within this geographic area are considered to be "Members-at-Large."

Benefits of Membership

The Journal of Nuclear Medicine: a subscription to the official publication of The Society of Nuclear Medicine and the most prominent journal in the field. Published monthly, it provides the membership with up-to-date information on current developments in nuclear medicine.

Annual Meetings: discounts to scientific, clinical, and continuing education presentations, as well as commercial exhibits, to keep abreast of the latest developments.

Membership Directory: distributed biennially, at no extra cost, to the entire membership.

Books and Monographs: discounts on selected new topics published by the Society.

Audiovisuals: discounts on slide/tape programs covering a wide variety of subjects designed for classroom use and self-instruction.

Awards: presented to Society members for outstanding achievements and contributions to the field.

Continuing Education Credit: for meeting courses, audiovisuals, and exhibits, approved for AMA Category 1 credit.

Research and Fellowship Support: through SNM Education and Research Foundation.

Effective Government Relations: through committees and lobbying efforts.

Insurance Plans: disability income, and catastrophic major medical insurance programs.

Car Rental: discounts on Avis car rentals.

Credit Cards: MasterCard is available to eligible members.

SNM Councils

To satisfy the needs of those individual disciplines within nuclear medicine, the Society has established special interest Councils that function autonomously within the Society and are open to all interested Society members: Academic, Brain Imaging, Cardiovascular, Computer and Instrumentation, Correlative Imaging, Nuclear Magnetic Resonance, Radioassay, and Radiopharmaceutical Science.

The **ACADEMIC COUNCIL** is composed of faculty members of nuclear medicine departments, divisions, or sections in accredited nuclear medicine schools, or those in AMA approved nuclear medicine residency programs in the U.S. or Canada.

The objectives of the Council are: (1) to promote medical education, research, and patient care related to nuclear medicine; (2) to develop better methods of undergraduate and graduate teaching of nuclear medicine; and (3) to provide a forum for discussion of problems of mutual interest and concern, as well as an informal exchange of ideas and programs. Within the Council there is a subgroup of directors of nuclear medicine residency training programs who confer at least annually with the ABNM on areas of mutual interest.

The **BRAIN IMAGING COUNCIL** was established to bring together those physicians and scientists with an interest in brain imaging using radiopharmaceuticals. The Council provides a forum whereby information relating to brain imaging may be discussed and disseminated and also provides

a mechanism for the promotion and encouragement of basic brain imaging research and development.

The **CARDIOVASCULAR COUNCIL** consists of Society members interested in the performance and application of cardiovascular nuclear medicine procedures. It seeks to provide a forum for discussion and development of cardiac scintigraphic methods in an effort to realize the most beneficial applications. The Council actively seeks individuals who share this goal.

The newly combined **COMPUTER and INSTRUMENTATION COUNCIL** is made up of Society members who have an interest in computers and their application in the diagnostic, therapeutic, and investigative areas of nuclear medicine. It provides a source of information relating to computer science and instrumentation to the Society membership through meetings and publications, as well as promoting the advancement and dissemination of knowledge in this area.

The **CORRELATIVE IMAGING COUNCIL** provides a structure in which clinicians and scientists can develop and disseminate in-

formation on the medical and physiological applications of various imaging modalities as they correlate to nuclear medicine.

The NUCLEAR MAGNETIC RESONANCE (NMR) COUNCIL is composed of those Society members with an interest in NMR and its associated techniques. The Council provides a forum whereby NMR can be discussed and information disseminated. It also provides a mechanism for the promotion and encouragement of basic NMR research and development.

The **RADIOASSAY COUNCIL** maintains the scientific, economic, and historic elements of the radioassay discipline within the Society.

The RADIOPHARMACEUTICAL SCIENCE COUNCIL provides a forum for discussion and dissemination of information relating to the radiopharmaceutical sciences and promotes and encourages basic radiopharmaceutical research and development within the Society. It publishes a newsletter and holds periodic meetings on special subjects.

About the Technologist Section

The Technologist Section of The Society of Nuclear Medicine was formed in 1970 to meet the needs of the nuclear medicine technologist. It is a scientific organization formed with, but operating autonomously from, the Society to promote the continued development and improvement of the art and science of nuclear medicine technology.

The ongoing objectives of the organization are to enhance the development of nuclear medicine technology, to stimulate continuing education activities, and to develop a forum for the exchange of ideas and information. The Technologist Section provides nuclear medicine technologists with a mechanism to deal directly with issues that concern them (for example, special committees are devoted to continuing education, academic affairs, socioeconomic issues, and other issues of importance).

The Technologist Section

Membership Categories

REGULAR membership in the Section will be open to any member of the Society, regardless of category, who can provide evidence of training and/or experience in nuclear medicine technology satisfactory to the Membership Committee of the Section. Members pay dues, receive the official publication of the Section, have the right to vote on all issues presented to the membership, and may serve on the National Council or as an officer of the Section.

STUDENT/MEMBERS IN-TRAINING are persons enrolled in a training program in nuclear medicine technology and certified as students by the director of training for that institution. They pay reduced rates, receive all publications of the Section, and may hold office by appointment only.

Benefits of Membership

Journal of Nuclear Medicine Technology: a quarterly subscription.

The right to vote and hold elective office in the Section.

Local networking with regional chapters and representation through the National Council.

Legislative representation on both local and national issues.

Enrollment in the computerized continuing education accounting system, VOICE.

Annual Meetings, which include scientific and continuing education sessions, workshops, and scientific exhibits at member discounts.

Books, educational aids, and **audiovisuals** at member discounts.

Awards for outstanding achievements and contributions to technologist meetings, publications, and exhibits.

Any individual interested in membership in the SNM and its Technologist Section can apply by filling out the application form included in the brochure. Any SNM member may become a member of the Section by calling or writing the Membership Department in the Central Office.

For further information please contact:

Membership Department THE SOCIETY OF NUCLEAR MEDICINE 136 Madison Avenue NY, NY 10016-6784 (212) 889-0717 • FAX (212) 545-0221

THE SOCIETY OF NUCLEAR MEDICINE

MEMBERSHIP DEPARTMENT, 136 MADISON AVENUE NEW YORK, N.Y. 10016-6784 • (212)889-0717

APPLICATION FOR MEMBERSHIP

(see reverse side for instructions)

First Name Dr, Mr, Mrs, Ms, Miss (CIRCLE ONE) Middle Initia	Last Name Jr, Sr, I, II, III (circle one)				
Check Degree(s) Earned: (please type of	r print clearly)				
MD PhD MA MS BA BS	AA AS Other				
Indicate Board Certification(s): ABNM ABR ABP ABIM ABSNM ABHP NMTCB					
□ ASCP □ ARRT(N) □ ARRT(T)				
Please choose ONLY ONE of the following categories of membership for which you wish to be considered. (Categories of membership are described on the front page of this application and should be reviewed carefully before your choice is made.) □ Full □ Associate □ Technologist □ Affiliate					
Please check ONE box for preferred mailing address, but complete Institutional	□ Home Address				
institutional	☐ Home Address				
DIVISION	STREET ADDRESS APT. NO.				
DEPARTMENT	CITY STATE/PROVINCE/COUNTRY ZIP CODE				
INSTITUTION OR COMPANY	AREA CODE TELEPHONE NO.				
STREET ADDRESS	PRESENT POSITION (TITLE)				
CITY STATE/PROVINCE/COUNTRY ZIP CODE	DATE OF BIRTH				
AREA CODE BUSINESS TELEPHONE NO. EXT.	FAX NUMBER				
IN-TRAINING STATUS Status Program Director Status Program Director Status Stat					
Projected Completion Date:	PROGRAM DIRECTOR'S TELEPHONE NO.				
month/year PROGRAM DIRECTOR'S TELEPHONE NO. Would you like to join the TECHNOLOGIST SECTION? Yes No (Note: Technologist members automatically become technologist section members)					
COUNCIL MEMBERSHIP					
NAME OF SNM MEMBER WHO SUGGESTED THAT YOU JOIN	(optional)				
APPLICANT'S SIGNATURE	DATE				
FOR OFFICE	E USE ONLY				
	CHAIRMAN, MEMBERSHIP COMMITTEE (sign)				
CHAPTER	TECHNOLOGIST SECTION DESIGNEE (sign)				
ACCOUNT #					



Instructions to Application for Membership

- Please complete and sign the enclosed application form, either printing or typing the information. Make sure you have completed all information requested in order to avoid unnecessary delays in processing.
- 2. The membership category you select will be reviewed based on the information you provide on your application form to insure accordance with the Society's Bylaws.
- 3. To be eligible for "In-Training" status, at least 90 days must be remaining in your formal training program and your application must be accompanied by a letter signed by your program director confirming your student status. No application processing fee is required.
- 4. Upon acceptance by the Society, you will automatically become a member of the regional chapter that covers your area of residence. If you wish membership in
- some other chapter, you should submit your request with your application. If no regional chapter exists for the area of your residence, you will be assigned "Membership-at-Large."
- **5.** Forward the completed application with a \$10.00 non-refundable processing fee.
- Receipt of your application will be acknowledged. Allow 4-6 weeks for processing and for receipt of the appropriate journals.

DO NOT prepay your dues. An invoice will be sent to you upon approval of your application.

Guide to Membership Dues—1991

Categories of Membership—There are four basic categories of membership in the Society of Nuclear Medicine. (Descriptions of these four categories are located on the front page of this application.)

Students—Students are considered In-Training and are charged half the regular membership rate in the appropriate membership category.

Doctorate Degrees.—Members with Doctorate Degrees (MD, DO, PhD) who also belong to the Technologist Section are charged a different rate from those without Doctorate Degrees.

Technologist Section—All members of the Technologist Section must belong to the Society of Nuclear Medicine. All dues paid by Technologist Section members who do not possess a Doctorate Degree are credited to the Technologist Section.

Membership Categories	Society	Technologist Section	Total
Full (MD, DO, PhD)	\$135.00	_	\$135.00
Full-in-training	60.00	_	60.00
Full with Tech Section	75.00	\$33.00	108.00
Full-in-training with Tech Section	50.00	16.50	66.50
Associate	110.00	_	110.00
Associate-in-training	47.50	_	47.50
Associate with Tech Section	50.00	33.00	83.00
Associate-in-training with Tech Section	25.00	16.50	41.50
Technologist	35.00	33.00	68.00
Technologist-in-training	17.50	16.50	34.00
Affiliate	135.00	_	135.00
Affiliate with Tech Section	50.00	33.00	83.00

- Chapters—Society and Technologist Section chapter dues are additional and vary by chapter. A chapter dues table is available upon request.
- Councils—Council dues are an additional \$5.00 per Council.
- Prorated Dues—Dues for those applicants joining during the year are prorated to January 1st.

Contributions or gifts to the Society of Nuclear Medicine, Inc. are not deductible as charitable contributions for federal income tax purposes. Dues payments are deductible by members as an ordinary and necessary business expense.

Index to Advertisers			
Advertiser	Telephone Number	Page Number	Reader Service Number
AMR Corporation Milford, CT	(203)877-1610	15A	5
Atomic Products, Inc. Shirley, NY	(516)924-9000	11A	6
Capintec, Inc. Ramsey, NJ	(800)631-3826	2A	11
Diagnostix Plus, Inc. New Hyde Park, NY	(516)742-1939	26A	22
Diversified Diagnostic Produ Houston, TX	icts, Inc. (713)955-5323	23A	24
Du Pont Company No. Billerica, MA	(800)343-7851	Following 16N	26
Du Pont Company No. Billerica, MA	(800)225-1572	Following 24N	27
Fujisawa Pharmaceutical Cor Deerfield, IL	npany (708)317-0600	9A	115
Gammex Lasers Milwaukee, WI	(800)426-6391	26A	31
GE Medical Systems Milwaukee, WI	(800)433-5566	30A-31A	32
Nuclear Associates Carle Place, NY	(516)741-6360	6A	60
Nutronics Imaging Inc. Old Bethpage, NY	(516)753-3001	21A	119
Picker International Bedford, OH	(216)475-1111	18A-19A	68
Siemens Medical Systems Hoffman Estates, IL	(708)304-7252	IFC-1A	75
Sopha Medical Systems Columbia, MO	(800)752-2660	Following 38A	76
Squibb Diagnostics Princeton, NJ	(800)257-5181	Following 32N, 44A, 45A	, IBC, OBC
Nuclear Medicine Week		48A-49A	
SNM Publications SPECT		38A	