

New radiopharmaceuticals and new applications in medicine

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Abstract

All areas of radiology are constantly evolving. At times rapid advances are made because new equipment or pharmaceuticals are introduced. At others the evolution is gradual as established procedures and techniques are refined. The following review of selected areas in nuclear medicine includes both dramatic changes due to new developments and evolutionary changes in established techniques. The first section reviews the development of monoclonal antibodies for use in radioscinigraphy of neoplastic disease. Although many articles have been written about this topic over the years, the clinical applications have suddenly expanded because the Food and Drug Administration (FDA) recently approved one monoclonal antibody for use in the imaging of colorectal and ovarian cancer. It is anticipated that a number of other antibodies will be approved for clinical scintigraphy of both malignant and benign disease and immunotherapy. It is advised that the radiologist performing nuclear medicine procedures become knowledgeable about this expanding area of clinical application. The second section reviews several new radiopharmaceuticals that are being used with increasing frequency for myocardial imaging. The behavior of these tracers is different from that of thallium, and specialized imaging techniques are required. Although the clinical value of these agents is still questioned by some, they are widely used. Familiarity with this topic is recommended. The last section reviews some of the radiopharmaceuticals available for renal imaging and functional evaluation. The relatively new technetium-labeled pharmaceutical that approximates the behavior of hippuran is emphasized. New applications with the

renal cortical imaging agent technetium DMSA are also reviewed. A thorough knowledge of the biologic behavior of these tracers and appropriate imaging and measurement techniques is extremely important for their appropriate clinical use.



Biography:

Prof. Dr. Anil Batta is presently professor & Head with senior consultant in Govt. Medical College, Amritsar. He did his M.B.B.S. and M.D. in Medical Biochemistry from Govt. Medical College, Patiala in 1984 and 1991, respectively. His research interest is mainly in clinical application especially cancer and drug de-addiction. He has supervised more than 25 M.D., M.Sc. and Doctorate researches and published more than 130 international research papers. He is the chief editor of America's Journal of Biochemistry. He is also working as advisor to the editorial board of International Journal of Biological and Medical Research. He has been deputed member Editorial Board of numerous International & National Medical Journals of Biochemistry. He has also been attached as technical advisor to various national and international conferences in Biochemistry. He has been attached as hi-tech endocrinal, genetics and automated labs of Baba Farid Univ. of Health Sciences, Faridkot. He has chaired various sessions in the Biochemistry meets. He has been designated as member Editorial Board of various in US and other European Countries. He is also involved in various research projects at Govt. Medical, Amritsar. He has done super specialization in Drug-de-addiction from PGIMER, Chandigarh.

Speaker Publications:

1. Anil Batta Biochemical diagnosis of acute appendicitis International Journal of Medical and Health Research ISSN: 2454-9142, Volume 4; Issue 7; July 2018; Page No. 77-80.
2. Anil Batta Burnout Syndrome in Medical Fraternity ISSN 2518-3389 (Print) ISSN 2518-3397(Online) Scholars Middle East Publishers, Dubai, United Arab Emirates
3. Anil Batta Vitamin B12 and Depression Saudi Journal of Medicine ISSN 2518-3389 (Print)|ISSN 2518-3397(Online) Scholars Middle East Publishers, Dubai, United Arab Emirates
4. Anil Batta Depression, Anxiety and Distress in Patients of Cancer Starting Chemotherapy Scholars International Journal of Biochemistry Abbreviated Key Title: Sch Int J Biochem ISSN 2616-8650(Print)|ISSN 2617-3476(Online) Scholars Middle East Publishers, Dubai, United Arab Emirates
5. Anil Batta Biochemical Diagnosis of Dupuytren's Disease East African Scholars J Med Sci ISSN 2617-4421 (Print) | ISSN 2617-7188 Original Research Article

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