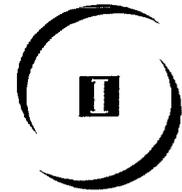


SEP 2 1998

510(K) SUMMARY



**SUBMITTER IDENTIFICATION**

Applicant's Name and Street Address: IS<sup>2</sup> Research Inc.  
20 Gurdwara Road, Units 3 - 6,  
Nepean, Ontario, Canada  
K2E 8B3

Contact Person: Peter Schultz, Manager Quality and Regulatory

Telephone and Fax Numbers of Contact Person: T - (613) 228-8755, F - (613) 228-8228

Address of Manufacturing Site: same as Applicant's address above

Date of Submission: June, 1998

**DEVICE NAME**

Device Name (common): Gamma Camera  
Proprietary Name: NuCamma R<sup>+</sup>  
Classification Name: Emission Computed Tomography System

**INTRODUCTION**

This 510(k) Premarket Notification has been prepared to demonstrate that the NuCamma R<sup>+</sup>, manufactured by IS<sup>2</sup> Research Inc., is substantially equivalent to the ISOCAM I gamma camera which has previously underwent the 510(k) premarket notification process. The NuCamma R<sup>+</sup> nuclear imaging system has a round field of view.

**INTENDED USE**

The intended use of NuCamma R<sup>+</sup> is to detect the location and distribution of gamma ray and positron emitting radionuclides in the body and store the data for analysis. This device includes accessories such as signal analysis and display equipment, patient and equipment supports, radionuclide anatomical markers, component parts, and accessories.

**DETERMINATION OF SUBSTANTIAL EQUIVALENCE**

The intended use of the two devices is identical except that the NuCamma R<sup>+</sup> system only detects the location and distribution of the radionuclides in the body. The system does not include data analysis capability. The data is stored and available for transmission to, or retrieval by, existing commercially available data analysis software and accompanying computer equipment.

The NuCamma R<sup>+</sup> has been deemed safe and effective and is certified to the same electrical safety standards as the predicate device by a third party organization prior to use on patients. A matrix was constructed comparing the features and intended use of the NuCamma R<sup>+</sup> with the predicate device. We conclude that the NuCamma R<sup>+</sup> is substantially equivalent to the predicate device and that no new safety or effectiveness concerns are raised.



SEP 2 1998

Food and Drug Administration  
9200 Corporate Boulevard  
Rockville MD 20850

Peter Schultz  
Manager, Quality Assurance and Regulatory Affairs  
IS2 Research, Inc.  
Medical Diagnostic Imaging  
20 Gurdwara Road, #3-6  
Nepean, Ontario  
K2E 8B3  
CANADA

Re: K982044  
NuCamma R+  
Dated: June 5, 1998  
Received: June 10, 1998  
Regulatory Class: II  
21 CFR 892.1200/Procode: 90 KPS

Dear Mr. Schultz:  
We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the Current Good Manufacturing Practice requirements, as set forth in the Quality System Regulation (QS) for Medical Devices: General regulation (21 CFR Part 820) and that, through periodic QS inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please note: this response to your premarket notification submission does not affect any obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4613. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address "<http://www.fda.gov/cdrh/dsma/dsmamain.html>".

Sincerely yours,

Lillian Yin, Ph.D.  
Director, Division of Reproductive,  
Abdominal, Ear, Nose and Throat  
and Radiological Devices  
Office of Device Evaluation  
Center for Devices and  
Radiological Health

Enclosure

510(k) Number (if known): K982044

Device Name: GAMMA CAMERA (NUCAMMA R<sup>+</sup>)

**Nuclear Medicine Device**

**Indication For Use:** To detect or image the distribution of radionuclides in the body or organ, using the following technique(s):

|  | <u>YES</u> | <u>NO</u>  | <u>Energy Range (keV)</u> |
|--|------------|------------|---------------------------|
| A. Planar Imaging  | <u>✓</u>   | <u>   </u> | <u>50-400</u>             |
| B. Whole Body Imaging  | <u>✓</u>   | <u>   </u> | <u>50-400</u>             |
| C. Tomographic imaging (SPECT) for non Positron emitter                    | <u>✓</u>   | <u>   </u> | <u>50-400</u>             |
| D. Positron imaging by coincidence   | <u>   </u> | <u>✓</u>   | <u>   </u>                |
| E. Positron imaging without coincidence                                    | <u>   </u> | <u>✓</u>   | <u>   </u>                |
| F. Other indication(s) in the device label, but not included in above list | <u>   </u> | <u>   </u> | <u>   </u>                |
|  | <u>   </u> | <u>   </u> | <u>   </u>                |
|  | <u>   </u> | <u>   </u> | <u>   </u>                |
|  | <u>   </u> | <u>   </u> | <u>   </u>                |
|  | <u>   </u> | <u>   </u> | <u>   </u>                |
|  | <u>   </u> | <u>   </u> | <u>   </u>                |

(Please do not write below this line - Continue on another page if needed)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use ✓  
(Per 21 CFR 801.109)

OR

Over-the-Counter Use    

(Optional Format 1-2-96)

David A. Segman  
(Division Sign-Off)  
Division of Reproductive, Abdominal, ENT,  
and Radiological Devices  
510(k) Number K982044