

FACSIMILE TRANSMITTAL FORM

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Department of the Environment

RADIOLOGICAL HEALTH PROGRAM
RADIOACTIVE MATERIAL LICENSE

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Pursuant to the Maryland Radiation Act, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess and transfer radioactive material listed below; and to use such radioactive material for the purpose(s) and at the place(s) designated below. The license is subject to all applicable rules, regulations and orders of the Maryland State Department of the Environment, now or hereinafter in effect and to any conditions specified below.

<p>1. Name: Ishtiaq A. Malik, M.D. 2. Address: 106 Irving Street, N.W. POB North Tower #3000 Washington, DC 20010</p>	<p>3. License No.: MD-31-367-01 4. Amendment Number: 02 Code 02201 5. Expiration Date: February 28, 2015</p>
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<p>6. Radioactive material element & mass number:</p> <p>A. Any radioactive material listed in Section G.200 of COMAR 26.12.01.01</p>	<p>7. Chemical and/or physical form:</p> <p>A. Any radioactive material listed in Section G.200 of COMAR 26.12.01.01</p>	<p>8. Maximum amount of radioactivity which licensee may possess at any one time:</p> <p>A. As needed to perform diagnostic tests.</p>
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9. Authorized Use(s):

A. Any imaging and localization procedures approved in Section G.200 of COMAR 26.12.01.01

10. The authorized place of use is Connecticut Belair Medical Center, 3927 Ferrara Drive, Wheaton, Maryland 20906 and **10801 Lockwood Drive, Suite 140, Silver Spring, Maryland 20901**. The licensee must notify the Radiological Health Program 30 days prior to vacating a permanent use address.

11A. The radiation protection program shall be under the supervision of Ishtiaq A. Malik, M.D.

11B. Radioactive material shall be used by:

Authorized User	Material and Use
Ishtiaq A. Malik, M.D.	COMAR 26.12.01.01, Section G.200

12. The licensee shall comply with all appropriate provisions COMAR 26.12.01.01 "Regulations for Control of Ionizing Radiation," and shall possess a copy of these regulations.



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License No.: MD-31-367-01

Amendment Number: 02 CODE 02201

LICENSE CONDITIONS, CONTINUED

- 13A. Each sealed source containing radioactive material, other than Hydrogen-3 with a half-life greater than thirty (30) days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six (6) months. In the absence of a certificate from a transferor indicating that a test has been made within six (6) months prior to the transfer, the sealed source shall not be put into use until tested. If there is reason to suspect that a sealed source might have been damaged, or might be leaking, it shall be tested for leakage before further use.
- 13B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of a device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate.
- 13C. Records of leak tests shall be kept in units of microcuries and maintained for inspection by the Department.
- 13D. If the test reveals the presence of 0.005 microcuries or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Department regulations. A report shall be filed within five (5) days of the test with the Administrator, Radiological Health Program, 1800 Washington Boulevard, Baltimore, Maryland 21230, describing the equipment involved, the test results, and the corrective action taken.
- 13E. Test for leakage and/or contamination shall be performed by persons specifically authorized by the Department, the U.S. Nuclear Regulatory Commission or another Agreement State to perform such services.
- 13F. Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.
- 13G. Except for alpha sources, the periodic leak test required by this condition does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage prior to any use or transfer to another person unless they have been tested within six months prior to the date of use or transfer.
- 14. Sealed sources containing radioactive material shall not be opened.



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LICENSE CONDITIONS, CONTINUED

15. The licensee shall conduct a physical inventory every six (6) months to account for all sealed sources received and possessed under the license. The records of the inventories shall be maintained for three (3) years from the date of the inventory for inspection by the Department, and shall include the quantities and kinds of radioactive material, location of sealed sources, and the date of the inventory.
16. The licensee may use the Calicheck or Lineator device for doing linearity tests of his dose calibrator provided he follows the procedures in the respective manual.
17. The licensee shall elute generators and process radioactive material with reagents kits in accordance with instructions furnished by the manufacturer on the label attached to or in the leaflet or brochure that accompanies the generator or reagent kit.
- 18A. The licensee shall perform a test to detect and quantify the activity of molybdenum-99 contamination in each elution of technetium-99m from a molybdenum-99/technetium-99m generator and in each extraction or separation of technetium-99 from molybdenum-99 not continued in a generator.
- 18B. The licensee shall not use technetium-99m for human use that contains more than 0.15 microcurie of molybdenum-99 per millicurie of technetium-99m. The limit for molybdenum-99 contamination represents a maximum value and molybdenum-99 contamination should be kept as low as reasonably achievable below this limit.
- 18C. The licensee shall establish written procedures for personnel performing tests to detect and quantify molybdenum-99 contamination. These procedures shall include all necessary calculations and steps to be taken if activities of molybdenum-99 in excess of the limit specified in Item 18B. above are detected.
- 18D. Personnel performing tests to detect and quantify molybdenum-99 contamination shall be given specific training in performing these tests prior to conducting such tests.
- (1) The licensee shall maintain for inspection by the Department records of the results of each test performed to detect and quantify molybdenum-99 contamination and records of training given to personnel performing these tests.
 - (2) Records described in Subitem (1) above shall be maintained for **three (3)** years following the performance of the tests and the training of personnel.



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LICENSE CONDITIONS, CONTINUED

- 19. Food and beverage containers shall not be discarded in radioactive or normal trash containers in licensee's areas utilizing radioactive materials.
- 20. The licensee shall not transfer ownership and/or control of this license to any person or entity without providing required information regarding the transfer for the agency's review and without receiving written authorization for the transfer by the agency.
- 21A. The licensee shall not make any false statement, representation, or certification in any application, record, report, plan, or other document regarding radiation levels, tests performed or radiation safety conditions or practices. Additionally, the licensee shall not falsify, tamper with, or render inaccurate any monitoring device or method.
- 21B. Violation of any term, condition, or regulation could subject the licensee to administrative or civil penalty or criminal prosecution, as specified in Title 8, Radiation, of the Article Environment of the Annotated Code of Maryland.
- 22. The licensee shall notify the Radiological Health Program's Radioactive Materials Inspection and Compliance Division, in writing, within ten (10) calendar days after initial receipt of radioactive materials authorized on this license.



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LICENSE CONDITIONS, CONTINUED

23. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material authorized by this license in accordance with statements representations, and procedures contained in:

- Application dated November 12, 2007
- Drawing of facility received February 14, 2008.
- Facsimile dated August 7, 2008, changing mailing address.
- Facsimile dated December 12, 2009, adding 10801 Lockwood Drive, Suite 140, Silver Spring, Maryland 20901 as an authorized place of radioactive material use.

COMAR 26.12.01.01 "Regulations for Controls of Ionizing Radiation" shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.

FOR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT


Roland G. Fletcher, Manager IV
Radiological Health Program

January 7, 2010

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