

OUR HISTORY

1962

NUCLEAR MEDICINE BEGINS AT OHSU

Approximate start of Nuclear Medicine at OHSU, within the Department of Pathology. I-131 therapies are being done at this time.

1989

NUCLEAR MEDICINE JOINS DIAGNOSTIC RADIOLOGY

Dr. Jeffrey Stevens is appointed the new Section Chief.

2007

PET/CT CAMERA INSTALLED

FDG PET scans start.

2015

XOFIGO THERAPY BEGINS

Approximate date of first therapy.

2016

DOTATE AND AXUMIN PET BEGIN

Start of NET and prostate PET.

2018

LAUNCH OF THERANOSTICS PROGRAM

Dr. Erik Mitra appointed as Section Chief and Lutathera therapies start.

2019

SECTION NAME CHANGES

Nuclear Medicine changes to Molecular Imaging and Therapy.

2020

NUCLEAR MEDICINE ADDS SOUTH WATERFRONT LOCATION

Two SPECT/CTs installed as part of a larger imaging expansion project at CHH.

2021

FIRST PET/MR CAMERA INSTALLED

First in the Pacific Northwest. PSMA PET also begins.

2022

PLUVICTO THERAPY BEGINS

2024

NEW CLINIC OPENS

Molecular Imaging and Therapy moves to new state-of-the-art clinic space in Hatfield Research Center. Amyloid brain PET and cardiac perfusion PET begin.

Our Team

Section Chief

Erik Mitra, M.D., Ph.D.

Faculty

Gagandeep Choudhary, M.D.	Sebastian Obrzut, M.D.
Nadine Mallak, M.D.	Laszlo Szidonya, M.D., PhD.

Advanced Practice Provider

Katie Barnett, D.N.P.

Supervisor

Mike Nguyen

Technologists

Ryan Anderson	Hollie Hendricks
Joseph Andrulowicz	Elyse Mace Ezra
Kyndall Cooney	Phillip Morse
Lindsey Durden	Talon Ray
Jordan Emerson	Matthew Riggins
Derrick Gillan	Victoria West
Amy Harker	Heather Whalon

Registered Nurses

Peggy Elia	Jenny Lee
Jason Dictson	Bree Murphy
Liz Henry	Derek Penfield

Administrative Coordinator

Melissa Reed

Physics

Tom Griglock, Ph.D.	Caffi Meyer, Ph.D.
Anna Mench, Ph.D.	Celeste Winters, Ph.D.

Research

Lauren Drake	Libby Mirande
Trent Ethridge	Clayton Ridner
Casie Goldman	

Technologist Extern Students

Rachel Hugulet	Lupe Urbano
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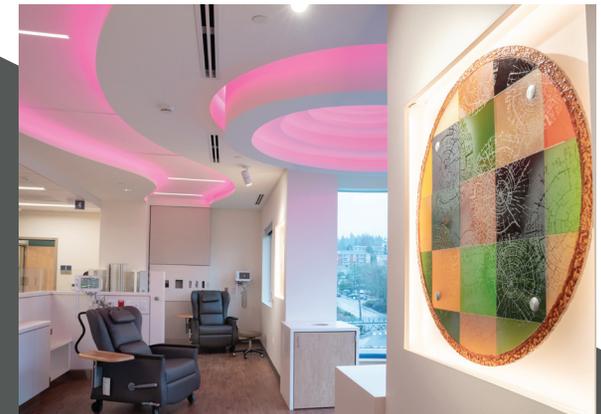
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3250 S.W. Sam Jackson Park Rd.
Portland, OR 97239
ohsu.edu/mitclinic

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MOLECULAR IMAGING AND THERAPY

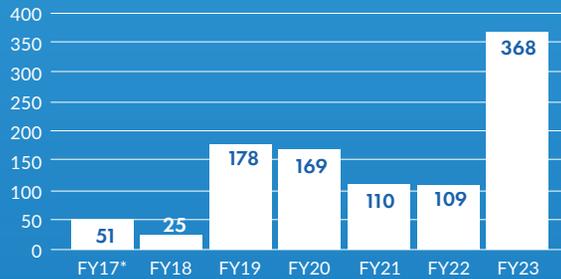
Theranostics Program



Theranostics Program

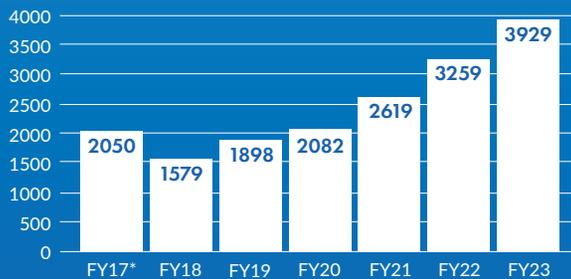
Nuclear Medicine originated with the first Iodine-131 therapy over 77 years ago and is now experiencing a resurgence with several new FDA-approved radiopharmaceuticals for imaging and therapy and many more in clinical trials, resulting in the burgeoning field of theranostics. The OHSU Theranostics Program launched in 2018.

THERAPY VOLUME



There has been a 621% therapy volume growth over the past six years, driven by these new therapies.

PET VOLUME



There has been a 90% PET volume growth over the past six years.

*Fiscal year runs July - June.

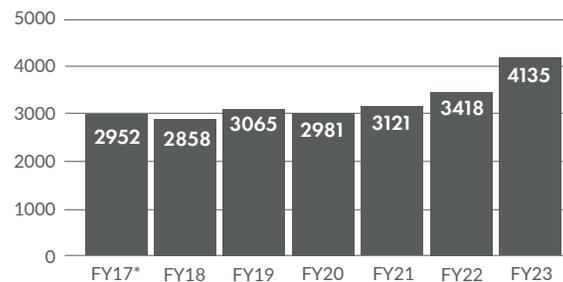
What is Theranostics?

Theranostics combines the words “therapy” and “diagnostics”, emphasizing the fusion of these approaches within one technology. The goal of theranostics is to personalize and thereby optimize medical treatment by tailoring it to the individual characteristics of a patient, often based on molecular information. While a general term in medicine, the clearest and most common example is in Molecular Imaging and Therapy.

What is Molecular Imaging and Therapy?

Molecular Imaging and Therapy (MIT, also called Nuclear Medicine) is a medical subspecialty that uses small amounts of radioactive isotopes to image and treat various diseases and conditions. The targeted radioactivity is administered internally and the emitted radiation is used to either create images (gamma and PET scans) or treat disease.

COMBINED MIT IMAGING AND THERAPY VOLUME



This section has seen a 47% growth over the past six years.

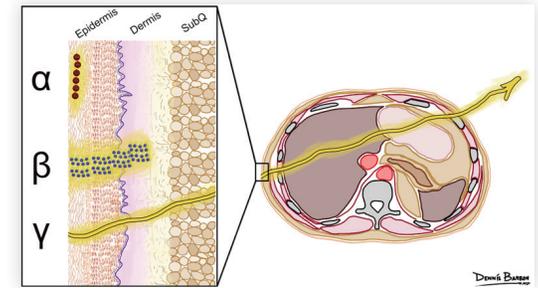


Illustration by Dennis Barbon, M.D.

These are the three main types of radiation used in MIT. Each interacts with tissue differently. As such, alpha particles can only be used for therapy, gamma rays are only used for imaging, and beta particles can be used for imaging or therapy.

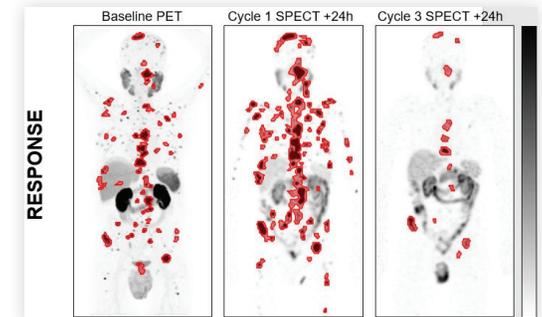


Figure by Caffi Meyer, Ph.D.

The power of theranostics is shown. Everything in red is metastatic disease which is visualized using PET imaging, while the improvement is a result of the therapy, both targeting the same receptor on the cancer cell.

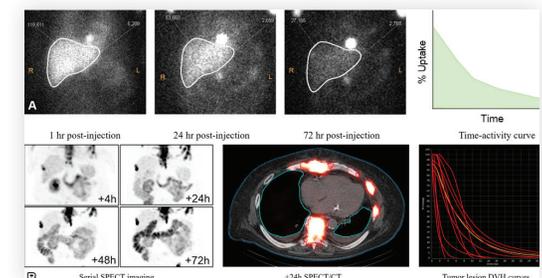


Figure by Caffi Meyer, Ph.D.

Based on the theranostics principle, OHSU MIT provides advanced patient specific dosimetry to help optimize the dose and further improve patient outcomes to the therapy.