

Global Healthcare Conference Cancer Center Update

October 12, 2023

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LOMA LINDA
UNIVERSITY

Cancer Center

MANY STRENGTHS. ONE MISSION.

A Seventh-day Adventist Organization

Outline

- Introduction
- National Cancer Institute (NCI)
Designation and Research Programs
- Clinical Program expansion



Cancer: A Major National Concern

- Americans consistently rank cancer as one of the most important health problems facing the nation.
- Cancer cases will continue to increase significantly due in part to the aging of the baby boomers.
- Cancer is the 2nd leading cause of death in the United States with more than 600,000 deaths/yr
- Cancer is the most-costly illness in the United States.
- Today there are 16M survivors requiring intense follow up and this number will continue to increase.



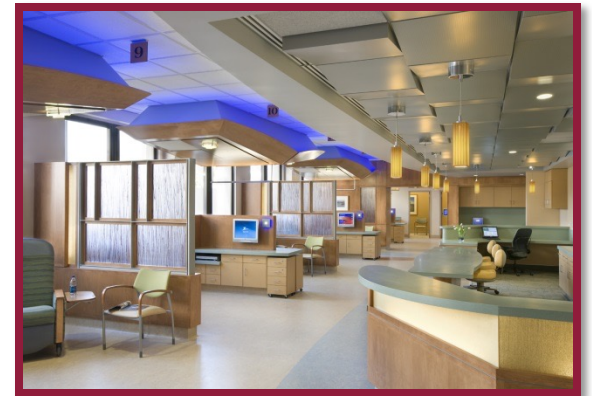
NCI Designation

- NCI designation of the Cancer Center will have a transformational impact on LLUH
- NCI Designated Cancer Centers are recognized for delivering cutting-edge cancer treatments to patients



NCI Designation

- Supports Early Phase Clinical Trials
 - Cutting edge experimental cancer therapies available here before available elsewhere
 - Theranostics
 - Cellular therapies
 - Specialized leukemia therapies
 - BNCT
 - Others



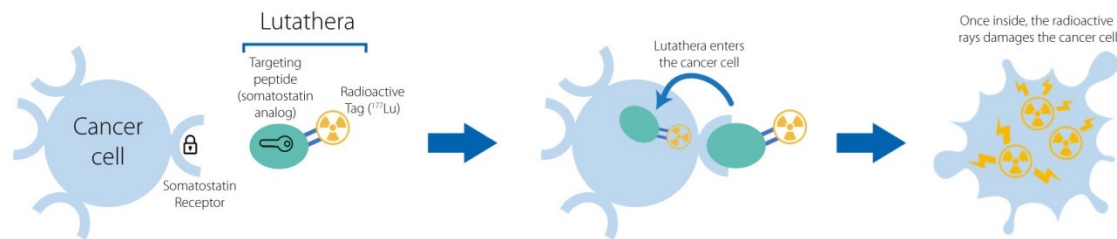
NCI Designation

- Built around Research Programs
 - Pediatric Leukemia RP (Cellular Therapy Program)
 - Molecular Imaging and Therapeutics RP (Theranostics Program)
 - Transdisciplinary Tobacco RP
 - Cancer Health Disparities RP (CHDMM)
 - Wholeness, Resilience, and Cancer RP
 - Cancer Particle Therapy RP (BNCT, Proton)



Molecular Imaging and Therapeutics

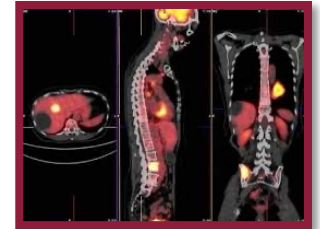
- Program Director: Frankis Almaguel, MD, PhD
- Theranostics
 - Molecular imaging and therapy → same molecule
 - Ultimate in Precision Medicine



Molecular Imaging and Therapeutics

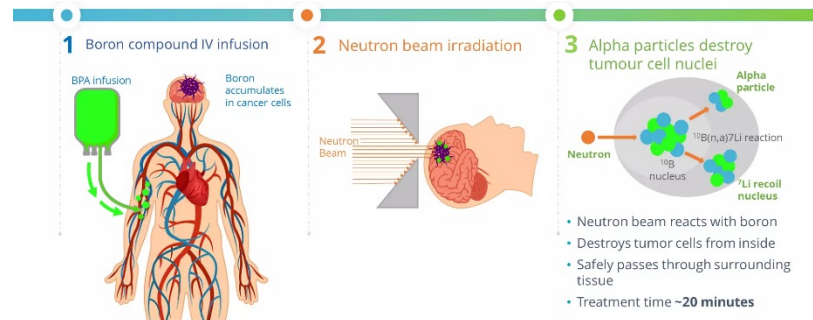
- Development of Theranostics Center

- Collaboration with BAMF Health
- \$50M world class theranostics facility
- To occupy 1st floor of new Research Building
- Integrated chemical development/imaging/therapy labs
- Full basic→translational→SOC capabilities
- Early phase trials
- Imaging and Therapy clinics
- Cyclotrons/radiochemistry lab/
radiopharmacy
- AI-enabled intelligence-based
precision medicine



Cancer Particle Therapy RP

- Program Director: Reinhard Schulte, MD
- Leverages our expertise in both proton therapy and BNCT
- Boron neutron capture therapy (BNCT)
 - How it works
 - Infusion of boron drug—localizes to tumor
 - Neutron irradiation—creates localized alpha radiation



Cancer Particle Therapy RP

- Preliminary work on development of BNCT center at LLU
 - Work with Deerfield, Neutron Therapeutics, Aviko, TAE Life Sciences, Cosylab, BNCT Global, others
 - Basement of Research Building?



CLINICAL PROGRAMS UPDATE



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LLUCC Current Strategic Initiatives

- Enhance disease specific integrated program in Neuro Oncology
- Open additional Hospital Licensed, Clinic and Infusion Space
- Establish Cellular Therapy Lab
- Establish combined Peds & Adult TCT Program



Integrated Neuro-Oncology Program

- Develop Multi-disciplinary Brain Tumor Center
- Advance Stereotactic Radio Surgery program
- Recruitment of additional brain tumor specialists



Integrated Neuro-Oncology Program Recruitment



Dr. Tarek El Ahmadieh
Neuro Tumor Surgeon



Dr. Maleeha Ahmad
Neuro Tumor Surgeon



Dr. Maininder Kaur
Neuro-Oncologist

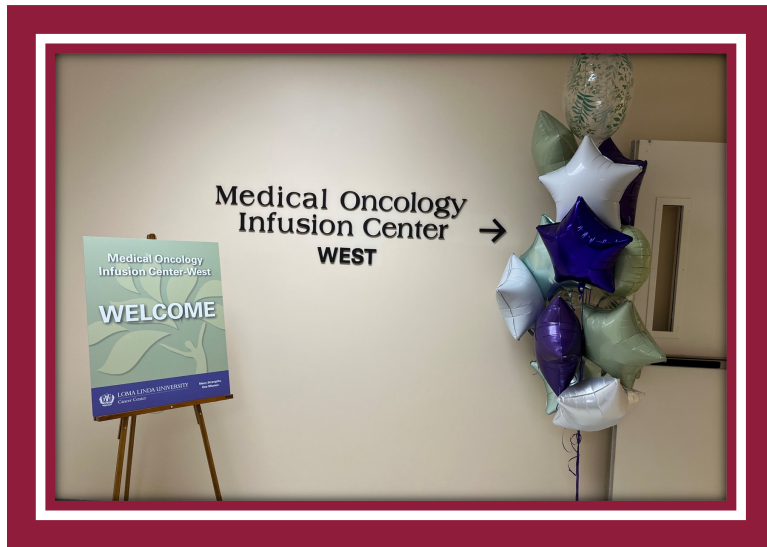


New Clinic and Infusion Space

- Opening of 18 additional infusion chairs to total 52 infusion spaces
- Cosmetic remodel of suite 1600 will be completed by the October
- Expected opening to see patients February 2024
- Surgical Oncology will move from the A-level space to Lobby Level suite 1600
- Medical Oncology will then expand from the East Side Clinic to the vacated West Side Clinic

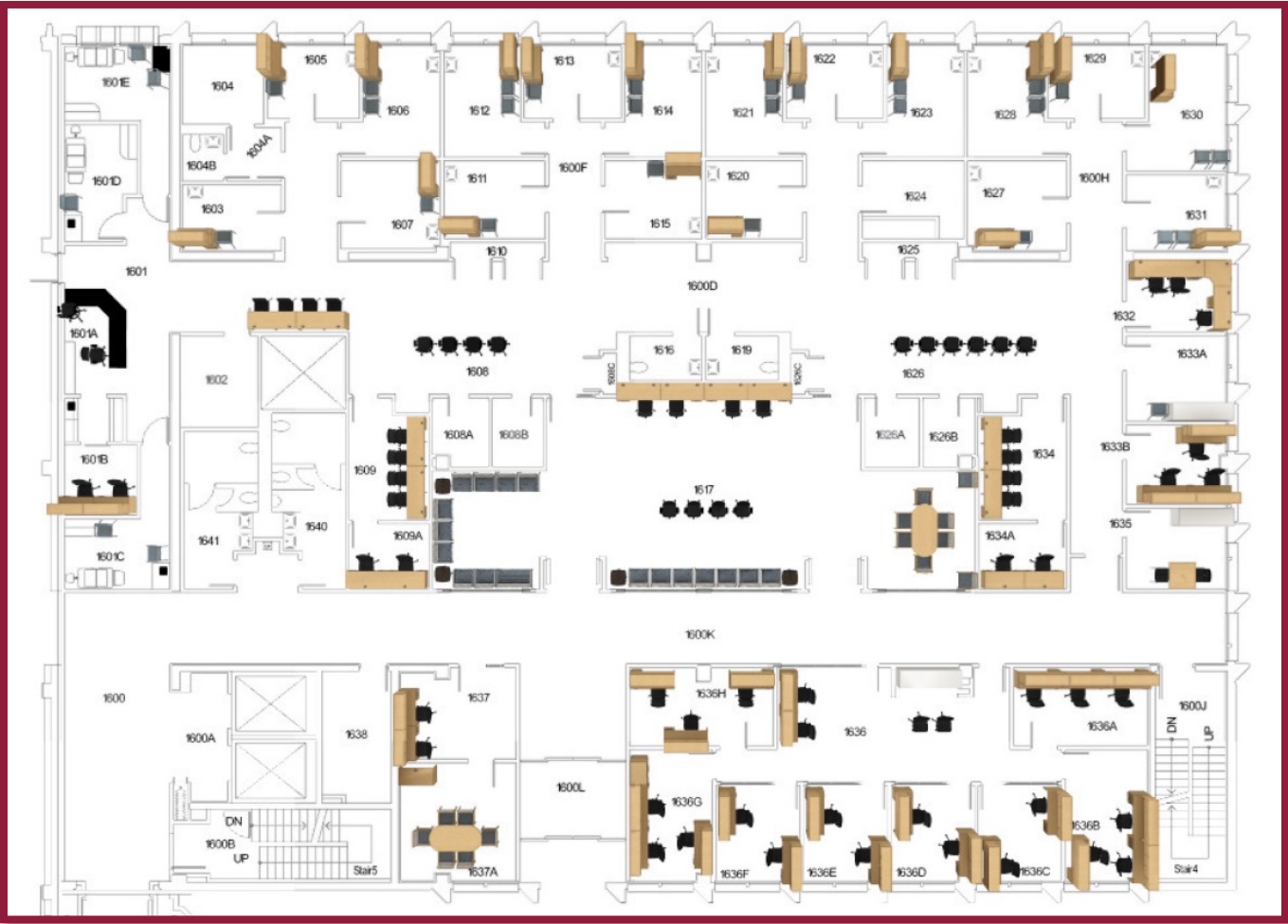


New Medical Oncology Infusion Center-West Opened January 23, 2023



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Lobby Level Clinic Space Remodel

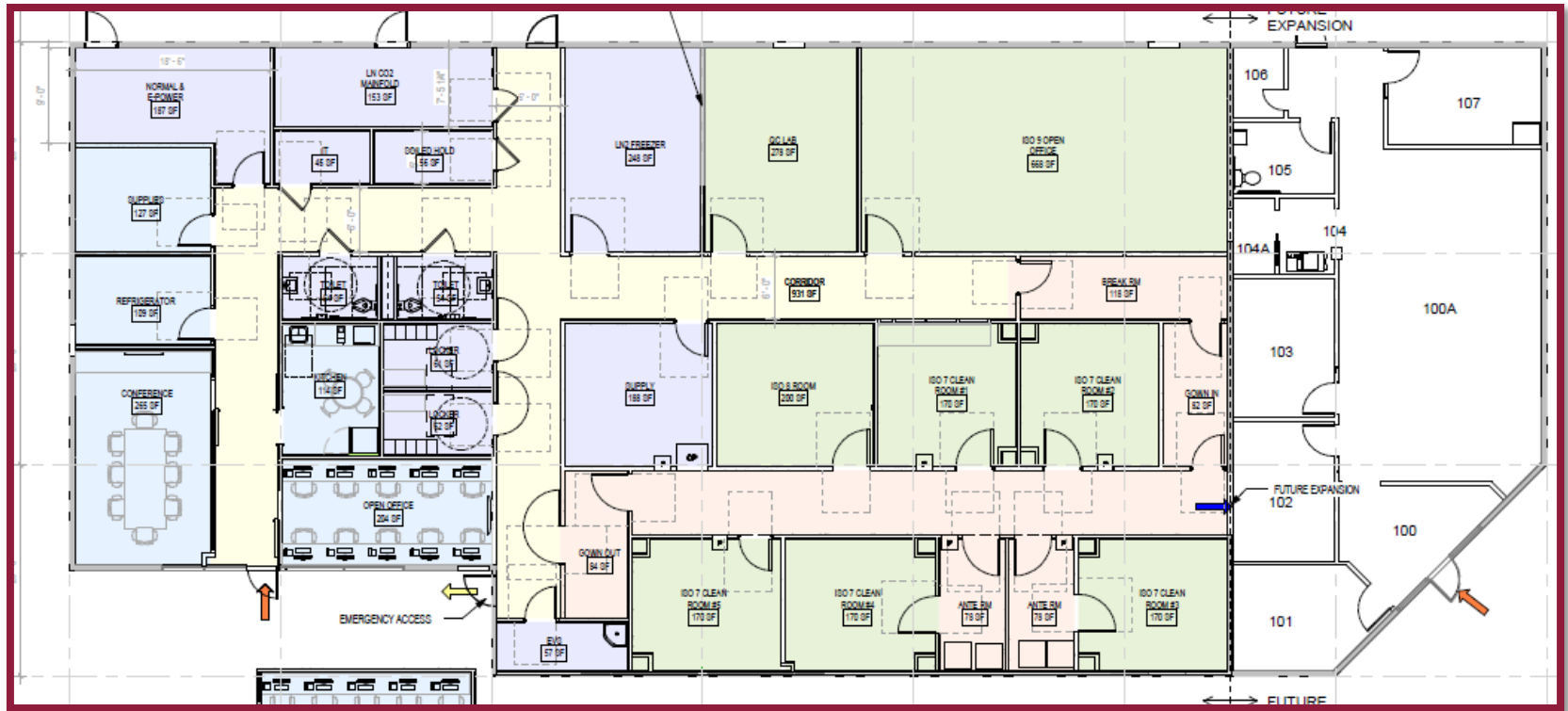


Transplant and Cellular Therapy Program and Lab

- Medical Director Dr. Hisham Abdel-Azim
- Progress being made towards combined Peds and Adult FACT accredited program and service
- TCT lab being established at MVP
- Successful recruitment of Dr. Sajad Khazal



Transplant and Cellular Therapy Lab at MVP





Thank you!

Questions?



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