

Blood and Marrow Transplant Program

AdventHealth Cancer Institute



Comprehensive Blood Cancer Care You Can Trust

We are home to Central Florida's first and only comprehensive blood and marrow transplant program. Our team of world-class oncologists performs more than 120 bone marrow transplants every year, and we have some of the highest one-year survival rates in the state of Florida. This quality experience has made us one of the premier treatment programs for acute leukemia in the country.

Diseases We Treat

- Acute lymphocytic leukemia (ALL)
- Acute myeloid leukemia (AML)
- Acute promyelocytic leukemia (APL)
- Chronic lymphocytic leukemia (CLL)
- Chronic myeloid leukemia (CML)
- Myeloproliferative neoplasms (MPN)
- Lymphoma
- Multiple myeloma
- Myelodysplastic syndrome
- Myelofibrosis
- Aplastic anemia

Acute Leukemia Expertise

With an acute leukemia diagnosis, time is of the essence. Cancer cells in an acute case can multiply in as little as a few hours and are quick to spread to other parts of the body. At AdventHealth Cancer Institute, we offer a fast track for these time-sensitive cases — getting patients in front of an acute leukemia expert quickly, which can be life-saving.

*Accredited by the
National Marrow
Donor Program and
the Foundation for the
Accreditation of Cellular
Therapy (FACT)*



Treatment Options

STEM CELL TRANSPLANTS

Blood and marrow stem cell transplants are one of the most effective ways to successfully treat many blood cancers. Before recommending a stem cell transplant, your oncology care team will guide you through a series of baseline testing and pre-transplantation evaluations to make sure a stem cell transplant is the best course of treatment. Depending on the diagnosis and test results, your care team will collaborate to develop a personalized treatment plan to ensure that you're receiving the highest level of pre- and post-transplant care.

We typically take one of two paths when it comes to treating blood-related cancers.

- **Allogeneic bone marrow transplants**

These transplants use bone marrow or peripheral blood donated from a donor — either a family member or an unrelated donor identified through a donor registry.

- **Autologous bone marrow transplants**

These transplants use peripheral blood stem cells harvested from you. These are frozen and utilized at a later time to treat your cancer with high doses of chemotherapy, followed by an infusion of your own cells.

Your oncology care team can help answer any questions you may have about bone marrow or stem cell bone marrow transplantation.

CAR-T THERAPY

CAR-T is an immunotherapy that enlists and strengthens the power of a patient's immune system to attack cancer cells. As its name implies, the backbone of CAR-T cell therapy are T cells, which are often called the workhorses of the immune system. They have a critical role in orchestrating the immune response and killing cells infected by pathogens.

The therapy requires drawing blood from patients and separating out the T cells. Next, using a disabled virus, the T cells are genetically engineered to produce receptors on their surface called chimeric antigen receptors (CARs). The final step is the infusion of the CAR-T cells into the patient (which is preceded by a "lymphodepleting" chemotherapy regimen). If all goes as planned, the engineered cells further multiply in the patient's body and, with guidance from their engineered receptor, recognize and kill cancer cells that harbor the antigen on their surfaces.

Our Care Team



Juan Carlos Varela, MD, is the Medical Director of the Blood and Marrow Transplant Program and a MD/PhD graduate from the Medical University of South Carolina. He completed his residency training in internal medicine at the Osler medical training program at Johns Hopkins Hospital, followed by fellowship training in hematology at the Johns Hopkins Hospital and the Sidney Kimmel Comprehensive Cancer Center. Dr. Varela's clinical interests include novel immune therapies for hematological malignancies as well as bone marrow transplantation and treatments for leukemia, lymphoma and multiple myeloma.



Shahram Mori, MD, PhD, earned his Doctorate of Medicine from St. Georges University in St. Georges, Grenada and completed fellowship training in hematology/oncology at the Arizona Cancer Center in Tucson, Arizona. His exceptional educational background also includes a PhD in Molecular Biology from New Mexico State University and a postdoctoral fellowship at the University of Texas M.D. Anderson Cancer Center in Houston. Dr. Mori is a noted researcher who is on the cusp of the latest advancements in stem cell transplantation and cellular therapy. He aims to provide the most advanced and comprehensive care to patients with leukemia, lymphoma, myeloproliferative disorders, and other diseases of the blood and bone marrow.



Rushang Patel, MD, PhD, completed fellowships in bone marrow transplant at Temple University and in hematology/oncology at Fox Chase Cancer Center — one of only 21 prestigious National Comprehensive Cancer Networks in the country. Board-certified in internal medicine and board-eligible in medical oncology and hematology, Dr. Patel brings a wealth of clinical knowledge and in-depth research experience to both patient and practice, having worked on projects for the United Nations International Children's Emergency Fund (UNICEF), Alembic Pharmaceuticals and Sanofi-Aventis, as well as having conducted studies focused on the mechanisms of cancer formation due to toxic chemicals and identifying new targets for designing cancer drugs.

The Most Established Acute Leukemia and Stem Cell Transplant Program in Central Florida

The AdventHealth Cancer Institute is home to one of the largest blood and marrow transplant programs in the Southeast United States — with a reputation for superior quality and outcomes.

- Dedicated floor for acute leukemia patients with clinical providers actively rounding on patients for any needs
- Multidisciplinary rounds conducted by physicians with an infectious disease specialist, a clinical pharmacist, a pulmonologist and a dietitian
- Dedicated hemo-pathologists for immediate, state-of-the-art testing on site
- Weekly conferences to review each patient's case with multiple pathologists, radiologists and other specialists to develop personalized treatment plans
- Access to five conveniently located infusion centers at AdventHealth hospitals across the region
- More than 1,500 stem cell transplants performed since the inception of the program

For more information on the Blood and Marrow Transplant program, call 407-303-2070 or visit [AdventHealthCancerInstitute.com/BMT](https://www.adventhealthcancerinstitute.com/BMT).



AdventHealth Orlando is recognized as the #1 hospital in Greater Orlando by *U.S. News & World Report*.



Our Health Equity Promise

Patient Protection and Affordable Care Act: Section 1557

AdventHealth complies with applicable federal civil rights laws and does not discriminate on the basis of race, color, national origin, age, disability or sex. This facility does not exclude people or treat them differently because of race, color, national origin, age, disability or sex.

AdventHealth provides free aid and services to people with disabilities to communicate effectively with us, such as:

- Qualified sign language interpreters
- Written information in other formats (large print, audio, accessible electronic formats, other formats)

AdventHealth provides free language services to people whose primary language is not English, such as:

- Qualified interpreters
- Information written in other languages

If you need these services, please call 407-303-5600 x1106707.

If you believe that this facility has failed to provide these services or discriminated in another way on the basis of race, color, national origin, age, disability or sex, you can file a grievance or request that someone assist you with filing a grievance at 407-200-1324 or fh.risk.management@adventhealth.com.

You can also file a civil rights complaint with the U.S. Department of Health and Human Services, Office for Civil Rights, electronically, through the Office for Civil Rights Complaint Portal, available at ocrportal.hhs.gov/ocr/portal/lobby.jsf, or by mail or phone at:

U.S. Department of Health and Human Services
200 Independence Avenue, SW
Room 509F, HHH Building Washington, D.C. 20201
1-800-368-1019, 800-537-7697 (TDD)

Complaint forms are available at hhs.gov/ocr/office/file/index.html.

The statements below direct people whose primary language is not English to translation assistance.

ATENCIÓN: si habla español, tiene a su disposición servicios gratuitos de asistencia lingüística. Llame al número siguiente.

CHÚ Ý: Nếu bạn nói Tiếng Việt, có các dịch vụ hỗ trợ ngôn ngữ miễn phí dành cho bạn. Gọi theo số điện thoại dưới đây.

注意：如果您使用中文，您可以免费获得语言协助服务。请拨打下面电话号码。

Atansyon: Si ou pale kreyòl Ayisyen, gen sèvis asistans nan lang ou ki disponib gratis pou ou. Rele nimewo ki anba an.

주의: 한국어를 사용하시는 경우, 언어 지원 서비스를 무료로 이용하실 수 있습니다. 아래의 번호로 전화하십시오.

UWAGA: Jeżeli mówisz po polsku, możesz skorzystać z bezpłatnej pomocy językowej. Zadzwoń pod numer podany poniżej.

ملحوظة: إذا كنت لاتتحدث اللغة الانجليزية فان خدمات الترجمة متوفرة لك مجاناً. الرجاء الإتصال بالرقم أدناه:

ATTENTION : Si vous parlez français, des services d'aide linguistique vous sont proposés gratuitement. Appelez le numéro ci-dessous.

PAUNAWA: Kung nagsasalita ka ng Tagalog, maaari kang gumamit ng mga serbisyo ng tulong sa wika nang walang bayad. Tawagan ang numero sa ibaba.

ВНИМАНИЕ! Если вы говорите на русском языке, то вам доступны бесплатные услуги перевода. Для этого позвоните по нижеуказанному номеру.

ACHTUNG: Wenn Sie Deutsch sprechen, stehen Ihnen kostenlos sprachliche Hilfsdienstleistungen zur Verfügung. Rufen Sie die untere Nummer an.

સુચના: જો તમે ગુજરાતી બોલતા છો, તો નિ:શુલ્ક ભાષા સહાય સેવાઓ તમારા માટે ઉપલબ્ધ છે. નીચેના નંબર પર ફોન કરો.

ATENÇÃO: Se você fala português, disponibilizamos serviços lingüísticos gratuitos. Ligue para o número abaixo.

ध्यान दें: यदि आप हिंदी बोलते हैं तो आपके लिए मुफ्त में भाषा सहायता सेवाएं उपलब्ध हैं। नीचे लिखे नम्बर पर सम्पर्क करें।

اگر شما فارسی زبان هستید، خدمات کمکی زبان بطور مجانی در دسترس شما قرار دارد. تو شماره زیر زنگ بزنید.

توجہ فرمائیں۔ اگر آپ اردو بولتے/بولتی ہیں تو آپ کے لئے لسانی خدمات مفت میسر ہیں۔ ذیل میں دئیے گئے نمبر پر کال کریں۔

注意：日本語でお話になりたい場合には、無料の通訳サービスをご利用いただけます。下記の番号にお電話してください。

ໄປດຊາບ: ຖ້າວ່າ ທ່ານເວົ້າພາສາ ລາວ, ການບໍລິການຊ່ວຍເຫຼືອ ດ້ານພາສາ, ໄດຍບໍ່ເສັຽຄ່າ, ແມ່ນມີພ້ອມໃຫ້ທ່ານ. ກະລຸນາໂທນໍ້າເບີຢູ່ຂ້າງລຸ່ມ

LUS CEEB TOOM: Yog tias koj hais lus Hmoob, cov kev pab txog lus, muaj kev pab dawb rau koj. Hu tus xojtooj hauv qab no.

ATTENZIONE: Se parlate italiano, sono disponibili dei servizi di assistenza linguistica gratuiti. Chiamare il numero sotto indicato.

407-303-5600  407-303-3025



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