BANGKOK HOSPITAL



BANGKOK CANCER HOSPITAL WATTANOSOTH

www.bangkokhospital.com

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OUTLINE

WHAT WE TREAT

OUR FOCUS
Service highlight and cutting-edge technology

BLOOD & MARROW STEM CELL TRANSPLANT

CAR T-CELL THERAPY

PROTON THERAPY

CLINICAL EXCELLENCE & TREATMENT OUTCOMES

CANCER EXPERT SPECIALISTS













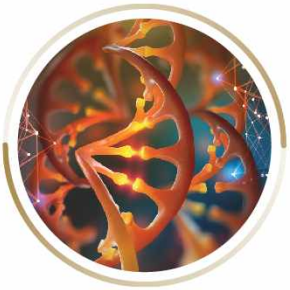
Bangkok Cancer Hospital Wattanosoth

OVERVIEW

Located at Bangkok Hospital Headquarters, Bangkok Cancer Hospital Wattanosoth is the first private cancer hospital in Thailand established in 2007. Supported by the latest medical innovations, the hospital offers comprehensive cancer care conducted by expert oncologists covering all subspecialties.

"Considered a pioneer in cancer treatments with a multidisciplinary approach adhering to JCI standards (USA), the average overall 5-years survival rates of breast, colorectal and lung cancers are above 80%."

WHAT WE TREAT



Prevention and Early Detection Center

Dedicated to cancer screening and early detection by using the latest approaches and genetic testing for proactive prevention.

Oncology Imaging Center and Nuclear Medicine Clinic

Provides diagnostic services with leading-edge imaging technology, such as 2 PET/CT with Flow Motion scans, CT scans, SPECT/CT scan and Interventional Radiology.





Ambulatory Chemotherapy Care Center

Under the concept “first class experience”, offers chemotherapy, hormone therapy and innovative treatments guided by genetic profiling, e.g. targeted therapy and immunotherapy.

Radiation Oncology Cente

Provides advanced radiation conducted by radiation oncologists endorsed by precise technology, such as radiosurgery Varian EDGE, Linac (Linear Accelerator), VMAT and brachytherapy.





Surgical Oncology Center

Offers surgical treatments conducted by experienced surgical oncologists when the type of cancer is resectable. The latest robot-assisted surgery using the Da Vinci Xi can be applied to early stage of certain types of cancer, e.g. lung and prostate cancers with better access, improved surgical accuracy, less complications and faster recovery.

Breast Center

The only center of its kind to receive JCI certification, USA with regards to Clinical Care Program Certification for **“Breast Conserving Surgery”**.





Blood and Marrow Stem Cell Transplant Center

Adheres to international standards for treatment of blood diseases and hematologic malignancies, e.g. leukemia, lymphoma and multiple myeloma. All transplant techniques, e.g. autologous, allogenic and haploidentical approaches using half-matched donors are available.

OUR FOCUS

Service Highlights and Cutting-edge Technology





Biograph mCT Flow PET/CT scanner (2 machines)

Cutting-edge nuclear medicine imaging approach

- Diagnosis of cancerous tumors
- Determining the stage of cancer
- Assessing treatment response
- Detecting recurrence



EDGE - The New Era of Radiosurgery

- Delivers higher doses of radiation at a greater speed
- Shorter treatment time
- Improved precision with Image-Guided Radiation Therapy
- Protects healthy tissue
- Effective for brain, spine, lung, gastrointestinal and genito-urinary cancers



Precision Medicine with Advanced Genetic Testing

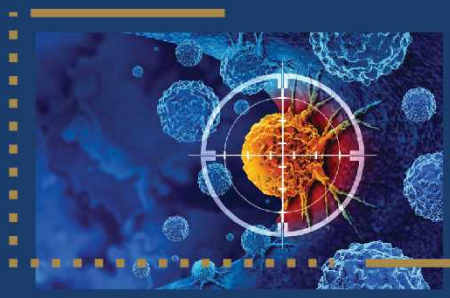
Utilizing **Next Generation Sequencing for cancer** risk screening and **Comprehensive Genetic Profiling** for personalized treatment, including targeted therapy, immunotherapy and chemotherapy drug.





Ambulatory Chemotherapy Care Center

Experience a **"first-class journey to beat cancer"** in a setting designed for the highest level of comfort and privacy.





SPECT/CT

This nuclear medicine scan precisely detects cancer that has spread to bone and assesses heart and kidney functions.



JCI-Certified Breast Conserving Surgery

We remove only the cancer, preserving healthy breast tissue to maintain the breast's natural appearance and patient's confidence.



Blood and Marrow Stem Cell Transplant Center

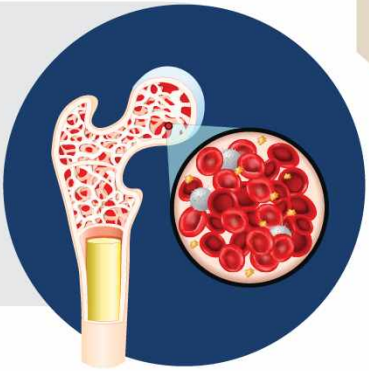
Our advanced sterilization rooms with positive pressure for treating hematologic conditions, e.g. leukemia, lymphoma, multiple myeloma, aplastic anemia and thalassemia.

BLOOD & MARROW STEM CELL TRANSPLANT

Blood & marrow stem cell transplant

replaces diseased or damaged blood-forming cells with healthy haematopoietic stem cells.

- Promoting the chance of a cure
- Helping increase life expectancy
- Improved patient's quality of life

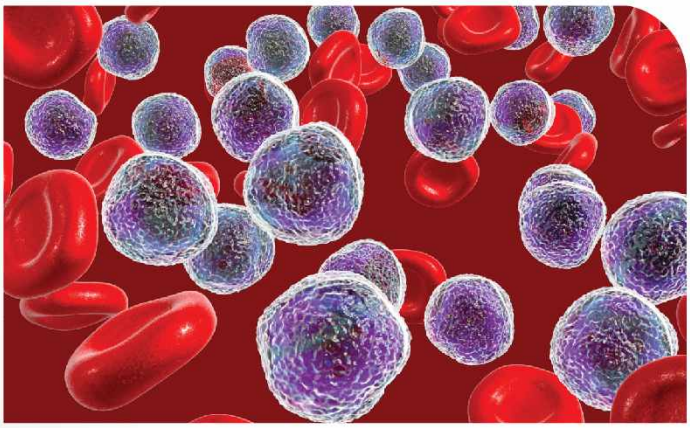


Blood & Marrow Stem Cell Transplant Center

provides comprehensive diagnosis and treatment for hematologic malignancies and other blood disorders in adults

Conditions treated

- Leukemias
- Lymphomas
- Multiple myeloma
- Non cancerous blood conditions, e.g. myelodysplastic syndrome, thalassemia and severe aplastic anemia





Types of transplants

All transplants are available, such as :

- **Autologous transplant** using patient's own cells
- **Allogenic transplant** using fully matched donor cells, e.g. sibling or unrelated donors
- **Haploidentical stem cell transplants** using half-matched donor cells, e.g. family members

Transplant facilities



HLA typing and immunological testing

for donor matching



Stem cell collection

and processing laboratory.



Bone marrow transplant ward

(BMT unit) with sterile, positive pressure rooms using HEPA-filtered system to minimize infection risks



Intensive care

for close monitoring



Expert transplant team

of hematologists and nurses



Dedicated clinical pharmacy

and nutritional support

Treatment statistics and outcomes (2019 – 2025)

- 1-Year Overall Survival Rate in **Lymphoma** (autologous transplant) : **78%**
- 1-Year Overall Survival Rate in First-Remission **Acute Myeloid Leukemia** (allogenic transplant) : **80%**
- Acute **Graft-versus-Host** Disease Grade III–IV : **10%**
- **Transplant-Related Mortality Rate** (3-month) in Lymphoma (autologous transplant : **0%**
- **Graft Failure Rate** (allogenic transplants) : **1%**
- Neutrophil **Engraftment Rate** within 15 Days Post-Infusion: **83.25%**

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CAR T-cell Therapy



Precision Medicine - A New Era of Cancer Care

What is CAR T-cell Therapy?

CAR T-cell Therapy (Chimeric Antigen Receptor T-cell) is immunotherapy primarily used to treat relapsed or refractory hematologic malignancies that have not responded to other treatments or have returned after previous therapy.

- CAR-T cell therapy takes T- cells (or T-lymphocytes) which are a type of white blood cell from the body.
- T-cells are genetically changed using a process called leukapheresis.
- These T-cells are modified to produce synthetic proteins called chimeric antigen receptors (CARs), allowing the T-cells to bind to specific proteins called antigens on cancer cells.
- This binding activates the T-cells to kill the cancer cells. Dying cancer cells trigger further immune responses against the cancer.
- CAR-T cells can keep multiplying in the body, producing lasting anticancer results.



Available in 2027

What is CAR T-cell Therapy for?

The U.S. Food and Drug Administration (FDA) and international health agencies have approved CAR T-cell Theraphy for:

- **Acute Lymphoblastic Leukemia (ALL):** Particularly in pediatric and young adult patients.
- **Large B-Cell Lymphoma (LBCL) and other B-cell lymphomas:** Including mantle cell lymphoma, chronic lymphocytic leukemia and follicular lymphoma.
- **Multiple Myeloma:** A cancer of plasma cells in the bone marrow.

Treatment process

1. **Initial Evaluation**
   For disease status and patient's readiness
2. **Leukapheresis**
   Collect mononuclear cells from patient's blood
3. **Manufacturing**
   Genetically reprogrammed T-Cell to express synthetic receptor (CAR) to target cancer cell (2-5 weeks)
4. **Bridging Therapy**
   Control disease and lower tumor burden while waiting
5. **Lymphodepletion**
   Typically fludarabine + cyclophosphamide (up to 5 days)
6. **Infusion (Day 0)**
   CAR T-cell product administered intravenously (15-30 minutes)
7. **Monitoring for Early Side Effects (Day 0–30)**
   Eg. Cytokine Release Syndrome (CRS), Immune Effector Cell Associated Neurotoxicity Syndrome (ICANS, infection and low blood cells
8. **Long-Term Follow-Up**
   Up to 15 years per regulatory requirement

Advancing Cell and Gene Theraphy by BDMS and Genepeutic Bio Co.,Ltd.

Genepeutic Bio Co.,Ltd. - Thailand'd leading biotechnology company focused on cell and gene theraphy has received conditional Thai FDA authorization for a specified group of patients requiring CAR T-cell theraphy (with CD19-positive B-cell acute lymphoblastic leukaemis.)

- Genepeutic Bio Co., Ltd. was established in 2020 by a group of genetic specialists from Ramathibodi Hospital, Mahidol University, Thailand.
- The first Thailand's genetic lab company certified to produce CAR T-cell adhering Thai FDA.

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PROTON Therapy



Available in 2029

Proton therapy is an advanced radiation technology using proton beam to precisely target cancer cells compared to conventional X-ray.
Proton therapy can be used to treat a wide variety of cancers, such as :

- Brain and spinal tumor
- Head and neck cancer
- Prostate cancer
- Lung cancer
- Liver cancer
- Eye cancer
- Breast cancer
- Esophageal cancer
- Sarcomas (cancers of bone or soft tissue)
- Certain types of pediatric solid tumors

"Bangkok Proton Center at Bangkok Cancer Hospital Wattanosoth"

Moving towards a global destination for cancer treatment with advanced proton technology

This international-level proton center has been set up to elevate cancer care in Thailand to meet international standards, foster better quality of life and strengthen public health cooperation at the regional level through the collaboration of Bangkok Dusit Medical Services (BDMS), Medical Excellence JAPAN (MEJ) and the EconomicResearch Institute for ASEAN and East Asia (ERIA) under the support of the Japanese government.

Superior advantages of proton therapy

Precise tumor targeting:
Proton beams can be adjusted to stop directly at the cancer cells, especially in complex area.

Protection of healthy tissues:
It significantly reduces radiation exposure to surrounding healthy organs.

Fewer side effects:
Patients often experience fewer short-term and long-term side effects.

Higher radiation doses:
Stronger, more concentrated dose of radiation can be directly delivered at each time.

Shortened treatment time:
It results in fewer total sessions and reduced patient burden.

Lower risk of radiation-induced secondary cancers:
Due to delivering less unnecessary radiation to non-cancerous tissue

Protecting growing bodies in children:
Lowered the risk of developmental and growth delays, hormone imbalances and organ deformities.

Available in 2029



CLINICAL EXCELLENCE & TREATMENT OUTCOMES

Value-based outcome



High Case Mix Index (CMI)

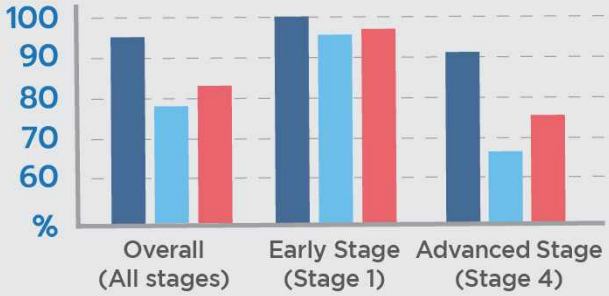
Representing high complexity and severity



Compared to Ministry of Public Health (Thailand)
CMI advanced level hospital = 1.8 - 2.0

High 5-Year Survival Rates (2016-2020)



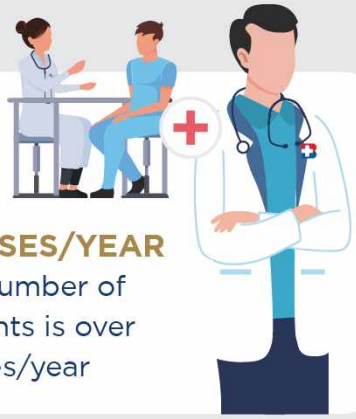




Thai patients | International patients

60 % | 40 %

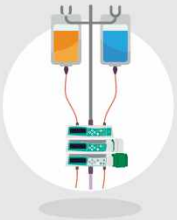
Over 31,000 cancer cases
treated at Bangkok Cancer Hospital Wattanosoth (2006-2022)



1,800 CASES/YEAR
Average number of new patients is over 1,800 cases/year



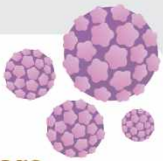
5 DAYS
Timely diagnosis :
Pathology report can be obtained less than 5 days, enabling timely treatment plan.



6 WEEKS
Effective treatment:
Chemotherapy or/and radiotherapy can be started less than 6 weeks after surgery, if indicated.



100 % **of Multidiscipinary Care**
All new cancer cases are discussed in the tumor board conference.



Top 10 Cancers Treated At Bangkok Cancer Hospital Wattanosoth (2020)



Breast | Lung | Colon
Thyroid | Prostate | Liver | Head and neck | Cervix | Lymphoma | Skin

CANCER EXPERT SPECIALISTS

Medical Oncology and Chemotherapy



Dr. Surachai
Sitawarin



Dr. Ratkawin
Jitawatanarat



Dr. Jittakarn
Mitisubin



Dr. Chatchai
Koowattanapaisan



Clin. Prof. Dr. Sudsawat
Laohavinij



Dr. Suleepon
Uttamapinan

Breast Cancer



Dr. Satit
Srimontayamas



Dr. Supakorn
Rojananin



Dr. Dolrudee
Songtish



Asst. Prof. Dr. Sasithorn
Sujarittanakarn



Dr. Orapich
Kayunkid



Dr. Suphalerk
Lohasammakul

Lung Cancer



Dr. Padungkiat Tangpiroontham
Thoracic Surgery



Dr. Chatchai Koowattanapaisan
Medical Oncology



Clin. Prof. Dr. Sudsawat Laohavinij
Medical Oncology /Pain Management



Dr. Chanawat Tesavibul
Radiotherapy and Oncology

Hematology / Bone Marrow Transplant



Prof. Dr. Surapol Issaragrisil



Dr. Supara Leechasan



Dr. Nuchanan Areethamsirikul



Dr. Photsawee Khemaphiphat



Dr. Chompunut Wongprasert



Dr. Sirimon Piyavunno

Head and Neck



Dr. Somsak Wankijcharoen
Surgery



Dr. Chanat Kanchit



Dr. Pan-napa Srinilta

Nuclear Medicine



Asst. Prof. Dr. Usanee Techavijit

Radiation Oncology



Assoc. Prof. Dr. Prasert Lertsanguansinchai



Dr. Sakpisid Nawasiri



Dr. Chanawat Tesavibul



Dr. Thirada Vongvanichvathana



Dr. Photsawee Tantisaowaphap

Colon Cancer



Dr. Wutthi Sumetchotimaytha



Prof. Dr. Tanaphon Maipang



Dr. Romyen Jitmungngan

Supportive Care



Dr. Laksamee Chanvej



Dr. Darin Jaturapatporn

Reproductive System



Asst. Prof. Dr. Duangmani Thanapprapasr



Prof. Dr. Sompol Permpongkosol

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WhatsApp

For more information