The Bumrungrad International Clinical Research Center (BICRC)

The BICRC: AN OVERVIEW

The Bumrungrad International Clinical Research Center (BICRC, http://www.bumrungrad.com/bumrungrad-clinical-research-center/) is a clinical research facility located in downtown Bangkok, Thailand on the grounds of Bumrungrad International. The goal of the BICRC is to provide a quality facility based upon international standards for the conduct of patient-oriented research to translate basic scientific knowledge into a better understanding and treatment of human diseases. Its jurisdiction covers pharmaceutical industry clinical trials, and in-house biomedical and social science research carried out by the Hospital staff and physicians.

The BICRC is a part of Bumrungrad Hospital Public Company Limited. It was established in 2001 with an aim to support clinical research in Thailand by following the International Conference on Harmonisation of Technical Requirements for Registration of Pharmaceuticals for Human Use, Good Clinical Practice (ICH/GCP) the World Health Organization (WHO) international guidelines, and local regulations. Funding for the BICRC comes from research grants, the Bumrungrad Hospital Foundation, private individual and corporate donations and from Bumrungrad International. The office is located on the 9th floor of the Bumrungrad Hospital Residence Building.

Bumrungrad International, Bangkok (BI, http://www.bumrungrad.com/) is the largest private hospital in Southeast Asia with 466 acute beds. It is also the largest private clinic in the region with an average capacity of 3,500 patients per day and international standard diagnostic and therapeutic facilities housed in about 1.15 million square feet buildings in downtown Bangkok, Thailand.

Founded in 1980, the hospital was first listed on the Stock Exchange of Thailand in 1989 and its world-standard replacement facility was opened in 1997. Its approximately 1,100 physicians and dentists treat over one million patients annually including more than 400,000 international and expatriate patients coming for tertiary medical care from over 190 countries and states throughout the world.

The hospital is managed by an American-led international management team and is the first hospital in Asia to earn Thai Hospital Accreditation (http://www.ha.or.th) in 1999 and is re-accredited in triennial reviews. It is also the first hospital in Asia to be awarded international accreditation in 2002 by the Joint Commission International Accreditation (JCIA, http://www.jcrinc.com), which is the international arm of the US-based Joint Commission for the Accreditation of Healthcare Organizations (JCAHO, http://www.jointcommission.org/) and has continually received re-accreditation triennially. Today, more than 17,000 health care providers use Joint Commission standards to guide how they administer care and continuously improve (http://www.jointcommission.org/AboutUs/Fact_Sheets/facts_jc_acr_cert.htm). The Hospital also receives the JCI special distinction for stroke and acute myocardial infarction programs. It is the first private hospital to be awarded Thailand Quality Class (TQC, http://www.tqa.or.th/th/award-2551) for organizational excellence in 2008.
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## Research Resources

### Outpatient Clinics

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<th>Clinics &amp; Centers</th>
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<tr>
<td>Allergy Center</td>
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<tr>
<td>Breast Care Center</td>
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<td>Children's Center</td>
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<tr>
<td>Dental Center</td>
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<tr>
<td>Diabetes Center</td>
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<tr>
<td>Diagnostic &amp; Therapeutic Center</td>
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<tr>
<td>Dialysis Center</td>
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<tr>
<td>Digestive Disease Center</td>
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<tr>
<td>Doctor Golf Clinic</td>
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<tr>
<td>Ear, Nose &amp; Throat Center</td>
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<tr>
<td>Emergency Center</td>
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<tr>
<td>Eye Center</td>
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<tr>
<td>Eye Laser Refraction Center</td>
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<tr>
<td>Fertility Center</td>
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<td>Health Screening Center</td>
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<tr>
<td>Heart Center</td>
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<tr>
<td>Horizon Regional Cancer Center</td>
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<tr>
<td>Hyperbaric Oxygen Therapy Center</td>
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<tr>
<td>Hypertension Clinic</td>
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<tr>
<td>Medical Clinics</td>
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<tr>
<td>Men Center</td>
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<tr>
<td>Neurology Center</td>
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<tr>
<td>Orthopaedic Center</td>
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<tr>
<td>Plastic Surgery Center</td>
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<tr>
<td>Rehabilitation Center</td>
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<tr>
<td>Skin Center</td>
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<tr>
<td>Skin Laser Center</td>
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<tr>
<td>Sleep Disorders Center</td>
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<td>Spine Specialist Center</td>
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<tr>
<td>Surgical Clinics</td>
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<tr>
<td>Travel Medicine Center</td>
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<td>Women's Center</td>
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</tbody>
</table>
Inpatient Facilities
Total 466 Inpatient Beds

Operating Theaters
Endoscopy/Bronchoscopy Suites
Labor Rooms
Delivery Rooms
Nursery Bassinets
  Normal Nursery
  Level II Nursery
  Level I Nursery

Operating Theaters
Endoscopy/Bronchoscopy Suites
Labor Rooms
Delivery Rooms
Nursery Bassinets
  Normal Nursery
  Level II Nursery
  Level I Nursery
Diagnosis & Therapeutic Technology (Highlights)

New Generation MRI 1.5 Tesla (2)
Ultra-Fast 64-slice Spiral CT Scanner (2)
Cardiac Catheterization Laboratories (2)
Cardiac Electrophysiology Laboratory
Nuclear Medicine Camera (Dual energy) (2)
Kidney Lithotripsy
Digital Vascular Imaging/Interventional Radiology
6/18 Dual Energy Linear Accelerator (2)
Brachytherapy HDR
PET/CT: Positron Emission Tomography/ Computed Tomography
Digital Mammography (3)

Clinical Laboratory Facilities

Patient Population/Quantity
As the largest private medical provider in SE Asia, Bumrungrad International serves a high volume of patients (both inpatients and outpatients) from a diverse ethnic pool.

<table>
<thead>
<tr>
<th>Patient Population (2009)</th>
<th>No. of person</th>
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<tbody>
<tr>
<td>Admissions per year</td>
<td>28,300</td>
</tr>
<tr>
<td>Outpatient clinic visits per year</td>
<td>977,081</td>
</tr>
<tr>
<td>Laboratory tests per year</td>
<td>2,694,772</td>
</tr>
<tr>
<td>Surgical pathology per year</td>
<td>61,579</td>
</tr>
<tr>
<td>Radiology images per year</td>
<td>171,453</td>
</tr>
<tr>
<td>Ultrasound per year</td>
<td>89,938</td>
</tr>
<tr>
<td>CT / MRI per year</td>
<td>29,308</td>
</tr>
<tr>
<td>Operative procedures per year</td>
<td>13,581</td>
</tr>
<tr>
<td>Endoscopic procedures per year</td>
<td>13,533</td>
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Disease Classification (ICD-10): Inpatient

- Endocrine, nutritional and metabolic diseases 3%
- Certain infectious and parasitic diseases 11%
- Injuries, poisoning and other 5%
- Diseases of the musculoskeletal and connective tissue system 5%
- Diseases of the genitourinary system 5%
- Diseases of the respiratory system 11%
- Diseases of the digestive system 10%
- Diseases of the circulatory system 8%
- Pregnancy, child birth and puerperium 8%
- Cancer and neoplasms 13%
- Others 20%
Medical/Dental Staff Resources:
In addition to the lead investigator team outlined later in this document, the BICRC has access to the extensive medical staff organization (medical doctors and dental surgeons) of Bumrungrad International with expertise available in virtually all medical disciplines.

Nursing Staff:
Dedicated registered nurses are exclusively assigned to the BICRC to participate as CRC team members in protocol management, patient documentation, specimen collection, and patient assessment. All BICRC staff are trained in different levels of GCP courses with proficiencies updated on interval basis.
The BICRC nursing staff also coordinate patient flow sheets, consents, patient education materials, and conducting studies under the guidelines of ICH-GCP standards. These nurses are also supported by the nursing management at Bumrungrad International in the implementation of protocols and education of hospital staff for specific studies.

Epidemiology and biostatistics:
BICRC provides consultation on study design and ethical issues in research by an epidemiologist. It also provides biostatistics consultation to investigators for support in planning treatment allocation, calculating required sample size, data management, and data analysis and its interpretation upon request. It also gives advice on manuscript preparation.

Medical Library:
Bumrungrad International maintains a library of ready-reference texts and a selection of hardcopy periodicals in addition to on-line access to worldwide medical resources and inter-library loan service. A full time qualified Medical Research Librarian is available to investigators for literature searches and research support.

Medical Records:
Computerized system for both inpatient and outpatient records including the research participants’ are archived into the hospital’s computerized system and kept for an indefinite period.

Medical Staff:
Bumrungrad International's 1,100 full-time and consultant physicians represent 55 sub-specialties, including many found only at the largest tertiary centers. All our physicians are licensed by the country’s Medical Council to practice their specialty in Thailand. Bumrungrad’s credentialing process requires formal reviews of each doctor’s qualifications and track record, both before a doctor is appointed, and again within one year for the new appointed doctor and then every three years thereafter. A large percentage of the medical staff has international experience and many carry board certification from the UK, Australia, Germany, or Japan. Over 200 are US board certified. Bumrungrad sponsors an active continuing medical education program for its physicians.
Bumrungrad International, Bangkok:
Bumrungrad International treats over one million patients each year in its Bangkok facility and maintains more than two million active medical records. Since the outpatient clinics and hospital services are combined with a single set of medical staff, patient recruitment is thus efficient and effective. Addresses and contacts are routinely collected and maintained for easy access to potential research populations.

Patient Adherence/Retention
Most of Hospital’s patients have a relatively high level of education and tend to come from upper middle socio-economic class. Protocol compliance (especially with self-directed documentation) is generally highly reliable with this patient population. This patient population also tends to be less transient than public health system subjects contributing to high subject retention, which is especially critical in long term and chronic syndrome studies.

Database Search/Retrieval
Using Microsoft Amalga Hospital Information System (HIS) software (http://www.microsoft.com/amalga/default.mspx), this total hospital information system maintains a single database of all patient data in digital and analog forms, which is fully searchable. Diagnoses, laboratory data, radiology reports, patient demographics, etc. may be used as criteria to return potential research subjects for consideration; greatly increasing the speed of patient recruitment. Paperless medical records are on-line to authorized investigators to review study reports, and patient historical data in table or graphic form (such as laboratory values). In 2001, Bumrungrad International introduced a full PACS (Picture Archiving and Communication System) which brings all imaging media including x-rays, MRI, CT, ultrasound, etc., into full digital form and storage. The system meets the US FDA 21 CFR part 11 requirements for storage of electronic data. Nevertheless, any linked individual information can be accessed only through different levels of security authorization and usually needs Institutional Review Board (IRB) approval. This could allow very effective assessment if adequate subject samples could be made available for proposed studies and to search for subject candidates. Some of Bumrungrad International retrospective studies have been published using this type of database. As sponsors and Contract Research Organizations (CRO), ones could find that the above capacities allow BICRC to effectively carry our feasibility study for potential recruitment and follow-ups from its systems and archives.
Hardware/Storage
The Microsoft Amalga HIS Server version 6.0 is housed on all Dell hardware including:

- Database Search/Retrieval
- Microsoft Amalga HIS Server

Clients
Approximately 2,000 clients (PCs)
- CPU Intel x86 1.8GHz - 3.8GHz
- RAM 2GB
- Combination of Microsoft Windows XP and Windows 7
- 100MB -1GB Network card

Middle Tier Servers
- 3 Servers
- 2 CPUs Intel Xeon 3.00 GHz
- RAM 4GB
- Windows 2003 Server R2
- 2 Gigabit Network cards

PACS Server
- Cluster Server, 2 Nodes
- 2 CPUs Intel Xeon 2.66 GHz, 4 Cores
- RAM 32GB
- Window 2003 Server R2 with cluster feature
- Gigabit Network Card
- Storage Area Network (SAN), with RAID-5

Microsoft Amalga HIS Server
- Database Server, MS SQL Server 2008
- Cluster Server, 2 Nodes
- 2 CPU Intel Xeon 2.66 GHz, 4 Cores
- RAM 32GB
- Windows 2003 Server R2 with cluster feature
- Gigabit Network card and Storage Area Network (SAN), with RAID - 10

Data Security/Confidentiality
Although hardcopies can also be printed and maintained for investigational study purposes, all data are retained indefinitely in ready-access non-archive format and is regularly backed up. System up time is in excess of 99.9%. Access to patient records and patient confidentiality is strictly controlled through secured passwords and authorized access at different levels and is considered US FDA 21 CFR part 11 compliant. The system tracks and records any access by a user to any patient file.
Dissemination of Research Results

Since the establishment of BICRC in 2000 through August 2010, BICRC has been involved in 134 research studies. These include clinical trials by pharmaceutical industries, observational, and social science studies. Dissemination of research results has been evolving. Listed below are publications and presentations in international and local settings by Bumrungrad International full-time staff since 2004.


* Study carried out at Parkinson’s Disease Center and Movement Disorders Clinic, Department of Neurology, Baylor College of Medicine, Houston, TX, USA.


Hospital Accreditation:
Bumrungrad International is the first private hospital in Thailand to be awarded the Thai Hospital Accreditation, which is based upon US and Canadian standards. Improvement process is in place to ensure that the 1,700 standard operating procedures and work instructions are documented and employees are properly trained. This helps to insure patient care quality as well as consistency and reliability of results.

JCIA Joint Commission International Accreditation
Bumrungrad International is the first hospital in Asia to be awarded international accreditation ensuring that the facility uses internationally accepted protocols and procedures for quality management. It also receives the JCI special distinction for stroke and acute myocardial infarction programs.

Thailand Quality Class (TQC) Award
Bumrungrad International is the first private hospital in Thailand to be awarded Thailand Quality Class Award for organizational excellence in 2008.

Laboratory Quality
- Thailand: The Bumrungrad International laboratory is fully licensed and accredited.
- Ministry of Public Health: Full Medical Laboratory accredited by the Department of Medical Science for ISO15189
- External QC: The BI laboratory participates in comprehensive external quality control programs as follows:
  1) RCPA (Royal College of Pathologists of Australia) for general serum chemistry, tumor markers, hematology, autoimmune diseases, and surgical histopathology.
  2) QCMD (Quality Control for Molecular Diagnostics), EU for Molecular diagnostics.
  3) Department of Medical Science, Thailand, for immunology, anti-HIV testing, microbiology, and clinical microscopy
  4) Siriraj Hospital, Mahidol University, Thailand, for Blood Bank
The BICRC reports directly to the Bumrungrad International Medical Director:

**Medical Director, Bumrungrad International:**
Dr. Chamaree Chuapetchcharasopon  
M.D., Diploma of The Thai Board of Radiology  
Fellowships: Vascular and Interventional Radiology, USA  
Body Imaging, USA, 1989-1990

**Director:**
Dr. Dwip Kitayaporn  
Doctor of Public Health (Epidemiology)  
Diploma in Tropical Medicine and Hygiene  
Professor Emeritus (Epidemiology), Mahidol University  
Member, Research Project Review Panel (RP2) of the Special Programme of Research, Development and Research Training in Human Reproduction of the World Health Organization (WHO/HRP)  
Former Head, Department of Social and Environmental Medicine, Faculty of Tropical Medicine, Mahidol University  
Former Chief, Data Management Unit, Vaccine Trial Centre, Faculty of Tropical Medicine, Mahidol University  
Former Member, Ethics Review Committee, the World Health Organization (ERC/WHO)  
Former Member, Scientific and Ethical Review Group (SERG), (WHO/HRP).

**Associate Director:**
Dr. Krairerk Athirakul  
American Board of Internal Medicine  
American Board of Nephrology  
Former Assistant Professor, Duke University Medical Center  
Former Director of Dialysis Unit, Durham VA Medical Center

**Research RN and Coordinator:**
Ampai Pisithpun  
Dip. Nursing, Mission Nursing College  
B.Sc. Nursing, College of Saint Francis, Illinois, USA  
Former Hospital Administrator, Bumrungrad Hospital

**Librarian:**
Prisna Hiranwong  
B.Sc. Library Science, Ramkhamhaeng University

**Laboratory Manager:**
Kanyaorn Chuboonmee  
B.Sc. (Medical Technology)

**Information Systems Department Manager:**
Monthon Woranart  
M.Sc. in Computer Science, Minnesota, USA

**Pharmacy, Division Director:**
Kamonsak Reungjarearnrungr  
B.Sc. Faculty of Pharmacy, Mahidol University  
M.Sc. Pharmacokinetics, University of Ghent, Belgium
Core Investigators (first names in alphabetical order)

The BICRC has access to about 1,100 physicians and dentists of the Bumrungrad International medical staff organization as potential collaborators in clinical trials and investigations. The following core investigators are identified as the key contacts for the BICRC:

Dr. Anuwat Keerasuntonpong
General Medicine, Infectious Diseases
American Board of Internal Medicine
American Board of Infectious Disease
Research Interests:
HIV infections, nosocomial infections and tropical diseases

Dr. Apichat Kongkanand
Urology
M.D. Chiba University, Japan
Thai Board of Urology
American Board of Urology
Professor, Chulalongkorn University, Thailand
Research Interests:
Urology, erectile dysfunction, infertility

Dr. Asda Vibhagool
General Medicine, Infectious Disease
American Board of Internal Medicine
Assistant Professor, Ramathibodi Hospital, Thailand
Fellowships: Infectious Disease, USA
Research Interests:
Infectious diseases and HIV infections

Dr. Chad Wanishsawad
Medicine - Cardiology
Diploma of The Thai Board of Internal Medicine
Diplomate of The American Board of Internal Medicine
Diplomate of The American Board of Cardiovascular Disease
Diplomate of The American Board of Nuclear Cardiology
Diplomate of The American Board of Interventional Cardiology
Catheterization Lab Attending, Mahidol University
Fellowships:
National Institutes of Health, Bethesda, Maryland (Fellow American College of Cardiology), USA
Special Clinical Trainings:
American Board, Certified Interventional Cardiology and Nuclear Cardiology
Clinical Interests:
Balloon angioplasty, balloon valvuloplasty and cardiac scan
Dr. Choosin Jirachitsumpun  
Urology  
Diploma of The Thai Board of Urology  
Fellowships:  
Urology, Freie University, Berlin, Germany  

Dr. Chorthip N. Phattanasri  
Medicine - Endocrinology (Diabetes)  
Diplomate of The American Board of Internal Medicine, 2001  
Diplomate of The American Board of Endocrinology, Diabetes & Metabolism, 2004  
Diploma of The Thai Board of Endocrinology & Metabolism, 2006  
Fellowships:  
Clinical Nutrition, Tufts-New England Medical Center, USA  
Endocrinology, Diabetes and Metabolism Tufts-New England Medical Center, USA  
Clinical Interests:  
Diabetes, lipid, general endocrinology  

Dr. Eakachai Sathianpitayakul  
Medicine, Critical Care Medicine, Pulmonology  
American Board of Internal Medicine  
American Board of Pulmonary Disease  
American Board of Critical Care Medicine  
Cardiology, Okayama University, Japan  
Heart-Lung and Lung Transplant, Stanford University, USA  
Research Interests:  
Pulmonary medicine, critical care medicine, asthma, heart-lung and lung, transplantation  

Dr. Harit Suwanrusme  
Medicine, Hematology and Medical Oncology  
Thai Board of General Practice  
American Board of Internal Medicine  
American Board of Medical Oncology  
Research Interests:  
GI malignancy, lung cancer, breast cancer and lymphoma  

Dr. Kannikar Chakkaphak  
Radiology  
Thai Board of General Radiology  
Visiting Fellow:  
University of Chicago Hospitals and Clinics, Department of Radiology In MRI & CT, USA
Dr. Karoon Mekanontchai
Orthopaedics Surgery
Diploma of The Thai Board of Orthopaedic Surgery
Clinical Interests:
Sports Injuries, Orthopedic Trauma

Dr. Krairerk Athirakul
General Medicine, Nephrology
American Board of Internal Medicine
American Board of Nephrology
Former Assistant Professor, Duke University, USA
Former Director of Dialysis Unit, Durham VA Medical Center, USA
Research Interests:
Dialysis, hypertension

Dr. Manop Huntrakoon
Surgical Pathology
Director, Surgical Pathology, Bumrungrad Hospital
American Board of Pathology
Oncologic Pathology Fellow, Memorial Hospital for Cancer and Allied Diseases, NY, USA
Former Professor, Department of Pathology, University of Kansas Medical Center, Kansas City, USA
Research Awards:
1) Principal Investigator, American Cancer Society, Pulmonary endocrine cells in rabbits treated with diethylnitrosamine
2) Co-investigator, American Heart Association, Kansas Affiliate. Effects of diethylnitrosamine and nicotine on endocrine cells in lung implants
3) Co-investigator, Department of Surgery, Induced tolerance to cardiac transplants
4) Co-investigator, American Heart Association, Kansas Affiliate. Effects on hypoxia and hyperoxia on endocrine cells in lung implants
5) Co-investigator, American Heart Association, Kansas Affiliate, Effects of Bombesin on endocrine cells in lung explants
6) Co-investigator, American Cancer Society, Prostate Cancer: Local staging with endorectal surface coil magnetic resonance image

Dr. Nanthawan Sathiraleela
Radiology
Diploma of The Thai Board of Diagnostic Radiology
Fellowships:
Body Imaging: Ramathibodi Hospital, Thailand
Body Intervention, Ramathibodi Hospital, Thailand
PET/CT, Wake Forest Baptist Medical Center, NC, USA
Research Interests:
PET/CT
Dr. Napisvadee Wongchavanich
General Medicine, Nephrology
Thai Board of Internal Medicine
American Board of Internal Medicine
American Board of Nephrology
Former Assistant Professor of Clinical Medicine, University of Arizona, USA
Research Interests:
Hypertension, dialysis and kidney transplantation

Dr. Narongsak Kiatikajornthada
Medical Oncology, Hematology and Medical Oncology
American Board of Internal Medicine
American Board of Hematology
Founder and Vice President of the Thai Society of Clinical Oncology
Former Consultant, Human Research Committee, Ministry of Health
Research Interests:
Cancers of breast, ovary, lung, colon and rectum, anemia of all causes, lymphoma and leukemia

Dr. Nopawan Kittivat
Endocrinology
Internal Medicine, Mahidol University
Endocrinology
Research Interest:
Diabetes mellitus, endocrinology and metabolism, obesity

Dr. Paisan Vachatimanont
Neurology
Board of Neurology, Mahidol University
Clinical Research Fellow, University of IOWA, USA
Resident in Neurology, University of Minnesota
Regional Sleep Disorder Center, Minneapolis, USA
Research Interests:
Sleep disorders, stroke, epilepsy, neuromuscular disorder, headache, dementia, Alzheimer’s disease, and central nervous system infections

Dr. Panpit Suwangool
Medicine - Infectious Disease
Diplomate of The American Board of Internal Medicine
Diploma of The Thai Board of Internal Medicine
Diploma of The Thai Board of Infectious Disease
Research interest:
Medicine - Infectious diseases
Dr. Pinyo Horsin
Medicine, Pulmonology
Thai Board of Internal Medicine
Fellowships: Pulmonary and Critical Care Medicine, USA
Research Interests:
Pulmonary medicine, critical care medicine, asthma

Dr. Prapaporn Phimphilai
General Medicine
Diploma of The Thai Board of Internal Medicine

Dr. Prasong Pruksananonda
Pediatric Infectious Disease/Immunology
Thai Board of Pediatrics
American Board of Pediatrics
Former Instructor, Department of Pediatrics, Prince of Songkla University, Songkhla, Thailand
Instructor and Fellow in Pediatric Infectious Diseases and Immunology, University of Rochester School of Medicine and Dentistry, Rochester, NY, USA
Expert Committee on AIDS, AIDS Prevention and Control Division, National Institute of Health, Ministry of Health, Thailand
Expert Committee on Infection Control, Surveillance and Infection Control Division, National Institute of Health, Ministry of Health, Thailand
Research Interests:
Emerging infectious disease, re-emerging infectious diseases, general infectious diseases

Dr. Prayuth Tunsuriyawong
Otolaryngology
Diploma of The Thai Board of Otolaryngology
Fellowships:
Rhinology, University of Pennsylvania, USA
Rhinology and Otology, Harvard Medical School, USA
Assistant Professor, Mahidol University, Thailand
Special Clinical Trainings:
Endoscopic Sinus Surgery (ESS)
Clinical Interests:
- Advance ESS, endoscopic dacryocystorhinostomy, endoscopic orbital and optic nerve decompression, smell and taste disorders

Dr. Roekchai Tulyapronchote
Neurology
American Board of Psychiatry and Neurology
American Board of Vascular Neurology
Research Interests:
Hyperacute stroke treatment, neurocritical care, endovascular treatment of stroke
Dr. Rosanee Valyasevi
Medicine - Endocrinology (Diabetes)
Diploma of The Thai Board of Internal Medicine
Diplomate of The American Board of Internal Medicine
Diplomate of The American Board of Endocrinology, Diabetes and Metabolism
Fellowships:
Endocrinology, Howard University Hospital, Washington District of Columbia, USA
Endocrinology, Mayo Clinic, Rochester Minnesota, USA
Clinical Interests:
Thyroid diseases, parathyroid and calcium disorders

Dr. Saowanee Kamplumjid
Obstetrics and Gynecology
Thai Board of OB/GYN
Thai Board of Gynecologic Oncology, Certificate Colposcopy
Research Interests:
General OB/GYN, Gynecologic Oncology, Colposcopy
Gynecologic medical oncology

Dr. Sauwaluck Chusil
General Medicine, Nephrology
Thai Board of Nephrology
Nephrology, Melbourne University, Australia
Assistant Professor, Chulalongkorn University, Thailand
Research Interests:
Kidney disease and dialysis

Dr. Sasitorn Siritho
Neurology
Diploma of The Thai Board of Internal Medicine
Diploma of The Thai Board of Neurology
Fellowships:
Stroke, National Stroke Research Institute, Australia
Multiple Sclerosis, University of Ottawa, Canada
Special Clinical Trainings: Stroke, Multiple Sclerosis

Dr. Sira Sooparb
General Medicine, Nephrology
American Board of Internal Medicine
American Board of Nephrology
Resident, SUNNY Down State Medical Center, Brooklyn, NY, USA
Fellow, EMORY Medical School, Atlanta, GA, USA
Research Interests:
DM nephropathy, prostate cancer

Research Award:
NKFG Fellow Research Grant 1999-2000

Dr. Siriporn Nitjaphanich
Radiology
Diploma of The Thai Board of Diagnostic Radiology
Fellowships:
CT and MRI, 1996

Dr. Sukitti Panpunnung
Emergency Medicine - ER-cardiology, Medicine - Cardiology
Diploma of The Thai Board of Internal Medicine
Diploma of The Thai Board of Cardiology
Fellowships:
Cardiology, Ramathibodi Hospital, Mahidol University, Thailand

Dr. Suthat Kolkijkovinda
Obstetrics and Gynecology
Thai Board of OB/GYN
New Zealand Board of OB/GYN
Postdoctoral training, Center for Research and Training in Reproductive Biology, The university of Texas Health Science Center at San Antonio, USA
Former Lecturer, Faculty of Medicine, Chulalongkorn University
Associate Professor, Chulalongkorn University
Research Interests:
Women’s health, reproductive system and General obstetrics and gynecology

Dr. Suthida Suwanvecho
Medicine, Hematology and Medical Oncology
Thai Board of Internal Medicine
Thai Board of Hematology and Medical Oncology
American Board of Internal Medicine
American Board of Hematology
American Board of Medical Oncology
Research Interests:
GI malignancy, lung cancer, breast cancer, multiple myeloma, lymphoma

Dr. Varaphon Vongthavaravat
Medicine - Endocrinology (Diabetes)
Diplomate of The American Board of Internal Medicine
Diplomate of The American Board of Endocrinology, Diabetes, Metabolism
Diploma of The Thai Board of Endocrinology and Metabolism

Fellowships:
Endocrinology and Metabolism, University of California, Davis School of Medicine, USA

Clinical Interests:
Diabetes, thyroid diseases, general endocrinology

Dr. Verapan Kuansongtham
Neurosurgery - Spine Surgery, Spine Specialist - Spine Surgery
Diploma of The Thai Board of Neurosurgery
Fellowships:
Full-Endoscopic Spine Surgery, St Anna Hospital Herne, Germany
Aneurysm surgery and skull base surgery Pittsburgh, USA
Skull base surgery Hannover, Germany
- Minimally invasive neurosurgery, Mainz, Germany

Clinical Interests:
Full endoscopic lumbar and cervical surgery
Percutaneous pedicular screw with minimally invasive inter-body fusion
Minimally invasive neurosurgery

Dr. Vibhakorn Permpoon
Medicine - Gastroenterology & Hepatology
Diploma of The Thai Board of Internal Medicine
Diploma of The Thai Board of Gastroenterology
Fellowships:
Liver Transplantation and Hepatobiliary Medicine, Royal Free Hampstead, London, UK.

Clinical Interests:
Liver disease, Chronic viral hepatitis B and C

Dr. Viroj Chodchoy
Urology
Thai Board of Surgery, Chulalongkorn University
Thai Board of Urology
Fellow in Pediatric Urology, UK
Fellow in Urology, UK
Research Interests:
GU-cancer, prostate, men's health

Dr. Visuit Vivekaphirat
Cardiology
Director, Heart Center, Bumrungrad International
American Board Internal Medicine
American Board Cardiovascular Disease
Former Director, Cardiovascular Disease Fellowship Program, Saint Francis Hospital, Evanston Illinois

Research Interests:
Coronary and peripheral angioplasties

Dr. Walailuk Chaiyarat
Medicine - General Medicine, Hematology, Oncology
Diplomate of The American Board of Internal Medicine
Fellowships:
Hematology / Oncology, Baylor College of Medicine, Houston, Texas, USA, 2006-2009
Clinical Interests:
Breast cancer and lymphoma

Dr. Wichean Mongkonsritragoon
Medicine - Hematology, Oncology
Diploma of The Thai Board of Hematology
Fellowships:
Anatomic/Clinic Pathology, Mayo Clinic Rochester, Minnesota, USA,
Clinical Interests:
Stem cell transplantation and hematologic malignancy

Dr. Wiwat Wongsirisak
General Medicine
Thai Board of Internal Medicine
Research Interest:
General medicine

Dr. Worakij Chalermskhirat
Medicine, Critical Care Medicine, Pulmonology
American Board of Internal Medicine
American Board of Pulmonary Disease
American Board of Critical Care Medicine
Research Interests:
Pulmonary medicine, critical care medicine

Dr. Yudhtana Sattawathamrong
Gastroenterology & Hepatology
Thai Board of Internal Medicine
Thai Board of Gastroenterology
Assistant Professor, Mahidal University
Fellowship Advanced Therapeutic ERCP (The Netherlands)
Research Interests:
Gastro-enterology
Research Protocol Approval and Institutional Review Board

The BICRC maintains a full Bumrungrad International Institutional Review Board (BI/IRB) for the review of all investigational protocols and human experimentation. When a new protocol is submitted for IRB review by the first Monday of each month, the BI/IRB usually convenes its monthly meeting on every fourth Monday to review new protocols, amendments, adverse events, etc.

It is registered as an IRB00005009 with US Federal Wide Assurance number FWA00009042 for biomedical and behavioral studies. Clinical trial protocols that require importation permits for investigational products are processed first by the BI/IRB and then would obtain final approval from the Royal Thai Government IRB/IEC of record endorsed by the Thai Food and Drug Administrations. Currently, a Memorandum of Understanding (MOU) signed between the Ministry of Public Health (MOPH) and Bumrungrad International establishes the Ethical Review Committee for Research in Human Subjects of the MOPH as the IRB of record for studies requiring importation permits for investigational products.

BI/IRB members are as follows***:

1. Dr. Krairerk Athirakul    Chairman (Physician, BI affiliated)
2. Dr. Pakorn Siriyong    Vice Chairman (Physician, non BI affiliated)

Members:

3. Dr. Narongsak Kiatikajornthada    (Physician, BI affiliated)
4. Dr. Napisvadee Wongchavanich    (Physician, BI affiliated)
5. Dr. Rosanee Valyasevi    (Physician, BI affiliated)
6. Assoc. Prof. Sivalee Sirilai    (Ethicist, non-BI affiliated)
7. Ms. Orawan Kongrawd    (Lay person, non-BI affiliated)
8. Mr. Visitsak Suksa-araphasu    (Scientist, BI affiliated)
9. Ms. Thitinat Dedkaew    (Scientist, BI affiliated)
10. Ms. Siritha Siripharkathorn    (Scientist, BI affiliated)
11. Dr. Dwip Kitayaporn    Member & Secretary (Physician, BI affiliated)
12. Ms. Natchayada Tanabvonnnon    Assistant Secretary (BI affiliated)
   Dr. Sinn Anuras    (Ex-officio)
   Dr. Jitra Anuras    (Ex-officio)

Ad hoc Panel members of Bumrungrad International Review Board (BI/IRB)****:

1. Physician/Scientist/Academia from each specialty considered appropriate by Chairman of Bumrungrad International Institutional Review Board
2. Dr. Sirikun Vannasaeng    (Physician, BI affiliated)
3. Dr. Visutr Fongsiripaibul    (Physician, BI affiliated)
4. Ms. Ampai Pitthpun    (Scientist, BI affiliated)
5. Ms. Jiraporn Lekdumrongkas    (Scientist, BI affiliated)
6. Ms. Kanjanee Ruksakun    (Scientist, BI affiliated)
7. Ms. Aruneek Tikumpornwarakas    (Scientist, BI affiliated)

*** As of July 2010
**** As from September 2008