PROTEUS® SERVICES
COMPREHENSIVE SERVICES FOR PROTON THERAPY

A PARTNERSHIP FROM THE BEGINNING AND BEYOND
Proton therapy

Raising the bar in cancer care

Proton therapy is used today to treat many cancers and is particularly appropriate in situations where treatment options are limited or conventional radiotherapy presents an unacceptable risk to the patient.

These situations include and are not limited to eye and brain cancers, tumors close to the brain stem, spinal cord or other vital organs, head and neck cancers, recurring cancers and pediatric cancers.

For a general overview of the clinical aspects of proton therapy, refer to the following books:
- “Proton and charged particle radiotherapy” by Thomas F. Delaney, Hanne M. Kooy

Proton therapy vs X-ray radiation

Images with courtesy of Dr Alexander Lin, University of Pennsylvania School of Medicine

Head and neck

Images with courtesy of Stephen Bowen, PhD, University of Washington

Lung

Images with courtesy of Dr John Plastaras, University of Pennsylvania School of Medicine

Esophagus
PROTEUS® SERVICES are the only comprehensive set of services in proton therapy that are with you from the beginning and beyond in the fight against cancer.

Leveraging our experience supporting our customers to treat over 60,000 patients, IBA has developed a deep understanding of what it takes to build, operate and maintain a proton therapy center. Over 30 years we have worked in close collaboration with renowned institutions, customers, and partners to develop unrivaled expertise allowing us to ensure optimal performance. The unrivaled know-how of PROTEUS® SERVICES enables IBA to propose a complete range of proton therapy services that ensures the fastest installation and clinical ramp up, the highest uptime and smooth operations, and above all, compassionate care for cancer patients.

Although technology changes over time, our commitment to you remains timeless. PROTEUS® SERVICES has a proven record of delivering upgrades and updates to our clinical partners regardless of the age of the proton therapy center and equipment. From the 1st Pencil Beam scanning upgrade to the world’s 1st CBCT upgrade in proton therapy, we have been ready to deliver new technology to meet clinical demand today and tomorrow.

PROTEUS® PLUS

PROTEUS® ONE
With you from the beginning and beyond

At IBA, we realize that in order to start, maintain, and grow a proton therapy center, you need an experienced partner who is there for you every step of the way.

PROTEUS® SERVICES give you the experience, confidence, and support to make sure you are successful in proton therapy from the beginning and beyond.
Momentum:
- Operation & Maintenance
- System Updates
- User Meetings

Growth:
- Upgrades
- Continuous Education

Continued Treatment Evolution
1st Patient Ramp Up
Proton therapy installation projects are large and complex, which can often result in many financial challenges before and during your project.

IBA has in-house financial expertise that can help you make your project a success. Based on our unrivalled experience in multiple projects across the world, IBA can help you find and develop tailor-made financing based on your needs and objectives from the beginning of your project until the end.

**IBA offers support and consulting in:**

- Analysis and development of your business plan
- Search for financing
- Evaluation of financial plans and options

The experience accrued from our numerous successful PROTON THERAPY Center installations has enabled IBA to offer expert support and consulting services in the areas of Technology, Infrastructure Planning and Integration, Project Management, plus Clinical and Operational Process Optimization.

**We offer consulting in:**

- Building design
- Shielding calculations
- Interior Design by Philips

These services combined with IBA's unique proton therapy technology will allow you to treat your first patient faster than any other proton therapy solution.
Installing proton therapy systems faster than anyone else

IBA has set more records for the fastest installations in the industry than any other proton therapy vendor. We understand that getting your system installed quickly means an earlier start in treating patients and being able to deliver the kind of cancer care your community needs sooner.

IBA has repeatedly demonstrated installations in less than 12 months for our PROTEUS®ONE and PROTEUS®PLUS first room system delivery.

The Texas Center for proton therapy enjoyed one of the fastest ramp-ups in proton history. We were able to start treating a lot of patients very quickly. That can only happen if your equipment is robust and reliable. And that was the experience we had in our initial ramp up phase and therefore we were able to be committed to patients and say «if you're scheduled to get treatment, you'll be able to get it». Not only that; Since IBA provided the equipment faster than anticipated, that helped tremendously. We had many patients that were ready to initiate proton therapy and IBA understood the urgency to get the treatment ready on time, if not early.

Dr. Andrew Lee
Medical Director at the Texas center For proton therapy

* Actual timeline may vary depending on your project
Carry out safe and effective patient treatments faster!

At IBA we strongly believe an essential cornerstone of starting a proton therapy center is training and education.

IBA’s training programs range from Operational and Technical training to Clinical Education that will allow your clinical staff to be well prepared and educated to carry out safe and effective patient treatments faster from day one.

Operational Training

IBA has designed a training program to provide operational training and education in both an academic and hands-on setting at your own institution. This multidimensional training will allow clinical users to start operation of their proton therapy system in the most safe and efficient manner possible. All training is performed by a dedicated IBA Application Specialist who works with your team from day one until the start of patient treatments.

Technical Training

For some centers who choose to perform their own maintenance and operation, IBA offers multi-tier training courses for engineers and technicians with a focus on operation, trouble shooting, and both preventative and corrective maintenance.
Proton therapy Clinical Education

Patient care is at the heart of everything that we do. In conjunction with Penn medicine and OncoLink, IBA offers a comprehensive proton therapy Clinical Education course for Radiation Oncologists, Medical Physicists, Dosimetrists, and Radiation Therapists. The goal of this course is to give your center’s medical professionals the knowledge and skills to confidently, effectively, and safely treat patients with proton therapy. The course is comprised of E-learning and onsite training at Penn medicine’s Perelman Center for Advanced Medicine in Philadelphia, PA, USA.

IBA User Training

The IBA User Training Program provides an educational overview of your system and includes hands-on experience, ensuring that your personnel are well prepared to start clinical Proton Therapy operations and operate the Proteus®ONE or Proteus®PLUS.

We knew that to be able to treat in time and a diverse patient mix, we needed to train our medical staff. In addition to existing open courses, IBA provided an exhaustive clinical education that enabled us to ramp up quickly after the first patient, without the need to hire expansive resources from abroad.

Håkan Nyström, PhD
Chief of Physics
Skandion Clinic, Uppsala
When we started the clinical commissioning period out our center, many of our physics team were new to Proton Therapy. IBA’s Commissioning support gave us the peace of mind to make sure we were collecting the right quality of data and had planned out the workload in a way that was achievable in order to meet our project timeline. IBA’s application specialist also spent time with us to give us all the support we needed to setup our machine and patient QA program. IBA’s Commissioning support was exactly what we needed for our center’s start in Proton Therapy.

Hsinshun (Terry) Wu
PhD, Chief Physicist, Willis-Knighton Cancer Center
You want to go with those professionals who know how to bring a proton center up, to ramp it up quickly, to complete installation ahead of timeframe. We were very fortunate here in Dallas that we came to treatment exactly three months before we were actually supposed to [...] That’s due in part because of great organization on the IBA team.

Gary Barlow
Director Texas Center for proton therapy
Keep your focus on patient care

IBA has built a strong and reliable service team to guarantee the availability of your proton therapy technology and consistently achieve system uptime. We provide support teams, parts, and processes to provide full system operation and maintenance services while guaranteeing the highest performance standards on our state-of-the-art technology.

In order to meet such high standards, IBA’s maintenance and support is based on 3 pillars: 24/7 worldwide helpdesk support, experts and spare parts hubs in every region worldwide, and the use of big data for predictive maintenance.

For IBA, system uptime is more than just a target. The highest service and system availability in the industry enables your healthcare team to solely focus on the essentials of patient expectations and medical excellence while we help take care of the details. The benefits of this often are an increase in the quality of patient care offered, having consistent clinical scheduling, and making sure you can meet your business goals and objectives to be able to continue to provide the highest standard of care for your patients and community.

Uptime is more than just a target

Make patient care your only concern

Have consistent clinical scheduling

Meet your business goals
We thought well we need a partner that is reliable, that delivers proven technology but that is also able to actually prove their maintenance track record [...] We chose IBA because they were actually the only ones with that impressive track record.

Bert-Jan Souman EMFC
Managing Director, proton therapy Center Groningen
Staying at the leading edge of PT

IBA recognizes that delivering proton therapy solutions is not simply a matter of only installing the ultimate cancer fighting equipment.

We understand that continuing to provide the highest standard of care means making sure that you can keep your system equipped with the latest innovations in PT. Because technology and clinical protocols can change overtime, the IBA upgrade continuum provides upgrade packages for your own configuration.

Thanks to the IBA Upgrade Continuum ([reference right side of page]), you can integrate new technology and enhancements into your system often without any impact on clinical operations and treat with enhanced precision, treat new indications, and treat more patients.
The IBA continuum: Our latest technology is always available to you

PBS Gantry
Rolling Floor
AdaPT Insight CBCT Ambient Experience Solution
Shallow tumor optimization Research Areas
IBA has designed and installed the majority of clinically operating PROTON THERAPY centers in the world.

North America network

- Northwestern Medicine Chicago Proton Center, Warrenville, IL, USA
  - Treating since 2010
  - 4 rooms

- Hampton University Proton Therapy Institute, Hampton, VA, USA
  - Treating since 2010
  - 1 room

- Massachusetts General Hospital Burr Proton Therapy Center, Boston, MA, USA
  - Treating since 2007
  - 3 rooms

- SCCA Proton Therapy A Pro cure Center, Seattle, WA, USA
  - Treating since 2013
  - 4 rooms

- Texas Center for Proton Therapy, Dallas, TX, USA
  - Treating since 2015
  - 4 rooms

- University of Florida Health Proton Therapy Institute, Jacksonville, FL, USA
  - Treating since 2006 / Opening in 2019
  - 4 rooms

- Baptist Health South Florida, Miami, FL, USA
  - Treating since 2017
  - 3 rooms

- Inova Schar Cancer Institute, Fairfax, VA, USA
  - Opening in 2019
  - 2 rooms

- University of Pennsylvania Health System Roberts Proton Therapy Center, Philadelphia, PA, USA
  - Treating since 2010
  - 5 rooms

South America network

- Instituto de Oncología Angel Roffo Hospital, Buenos Aires, Argentina
  - Opening in 2020
  - 1 room

This map has been updated in August 2017. For last version of the map visit us online at: iba-worldwide.com
Europe network

- CENTRE DE PROTONTHÉRAPIE DE I’INSTITUT CURIE
  Paris (Orsay), France
  Treating since 2009
  2 ROOMS

- PROTON THERAPY CENTER
  Czech S.R.O.
  Prague, Czech Republic
  Treating since 2012
  4 ROOMS

- BRONOWICE CYCLOTRON CENTER
  Kraków, Poland
  Treating since 2011
  2 ROOMS

- CYCLHAD (CYCLOTRON FOR HADRON THERAPY)
  Caen, France
  Opening in 2019
  1 ROOM

- CENTRE DE PROTONTHÉRAPIE DE L’INSTITUT CURIE
  Paris (Orsay), France
  Treating since 2009
  2 ROOMS

- UNIVERSTAKLINIKUM CARL GUSTAV CARUS
  Dresden, Germany
  Treating since 2014
  1 ROOM

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  2 ROOMS

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  Dresden, Germany
  Treating since 2014
  1 ROOM

- WESTDEUTSCHES PROTONENTHERAPIEZENTRUM ESSEN (WPE)
  Essen, Germany
  Treating since 2013
  3 ROOMS

- PROTON PARTNERS INTERNATIONAL
  United Kingdom
  The Rutherford Cancer Centres (Newport, Reading, Northumberland & two other undisclosed locations)
  Opening in 2018
  5 ROOMS

- QUIRONSALUD PROTON THERAPY CENTER
  Madrid, Spain
  Opening in 2019
  1 ROOM

- CHILDREN’S CANCER HOSPITAL FOUNDATION
  Cairo, Egypt
  Opening in 2020
  1 ROOM

- PROTON THERAPY CENTER
  Czech S.R.O.
  Prague, Czech Republic
  Treating since 2012
  4 ROOMS

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  Cairo, Egypt
  Opening in 2020
  1 ROOM

Asia network

- APOLLO PROTON THERAPY CENTER
  Chennai, India
  Opening in 2018
  3 ROOMS

- NARITA MEMORIAL HOSPITAL
  Tochigi, Japan
  Opening in 2019
  1 ROOM

- NATIONAL CANCER CENTER
  Ilsan, Korea
  Treating since 2007
  3 ROOMS

- TMUH - TAIPEI MEDICAL UNIVERSITY HOSP.
  Taipei, Taiwan
  Opening in 2020
  1 ROOM

- WANJIE PROTON THERAPY CENTER
  Zibo, China
  Opening since 2004
  4 ROOMS

- BEIJING PROTON MEDICAL CENTER
  Beijing, China
  Opening in 2019
  4 ROOMS

- GULF INTERNATIONAL CANCER CENTER (PPI)
  Abu Dhabi, UAE
  Opening in 2020
  5 ROOMS

- TATA MEMORIAL CENTRE
  Mumbai, India
  Opening 2020
  3 ROOMS

- KOJINKAI HOKKAIDO OHNO MEMORIAL HOSPITAL
  Sapporo, Japan
  Opening in 2018
  1 ROOM

- TMUH - TAIPEI MEDICAL UNIVERSITY HOSP.
  Taipei, Taiwan
  Opening in 2020
  1 ROOM

- QINGDAO ZHONG JIA LIAN HEALTHCARE MANAGEMENT COMPANY LIMITED
  Qingdao, China
  Opening in 2019
  5 ROOMS

- ZHUOZHOU PROTON THERAPY CENTER
  Hebei, China
  Opening in 2018
  5 ROOMS

- BEIJING PROTON MEDICAL CENTER
  Beijing, China
  Opening in 2019
  4 ROOMS

- GULF INTERNATIONAL CANCER CENTER (PPI)
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  Opening in 2020
  5 ROOMS

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- KOJINKAI HOKKAIDO OHNO MEMORIAL HOSPITAL
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PROTEUS®PLUS is the brand name of the Proteus 235 FDA Cleared and CE market product.

PROTEUS®ONE is the brand name of a configuration of the Proteus 235.

AdaPT insight is the brand name of the I2C Image guided therapy device integrated to the IBA proton therapy solutions.

IBA, a Belgian company, is listed on the pan-European stock exchange EURONEXT and its annual reports can be downloaded on the website: www.iba-worldwide.com

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IBA: The best in proton therapy today and tomorrow

Together with our clinical partners, we brought proton therapy to clinical cancer care.

Ever since we started more than 30 years ago, our collaborations, our visionary roadmap and progressively unrivalled experience have enabled us to continue to innovate. Care givers now benefit from leading proton therapy technologies.

Today, our true continuum of Image-Guided Intensity Modulated Proton Therapy solutions can easily be integrated in most healthcare settings to make it available to all patients who need it.

Backed by IBA’s unique service offer (financing, workflow optimization, education), our tailor made PROTEUS® PLUS, our single-room PROTEUS®ONE, all our solutions and robust processes (installation, operations and upgrades) are developed in collaboration with our end-users.

Tomorrow, our unique and open culture of sharing will further strengthen the clinical and patient communities we have always cared for. Working collectively, we will achieve our goal which is to offer cancer patients access to effective treatments with decreased side effects and better quality of life.

Request more information: info-pt@iba-group.com

Visit us online at:

www.iba-protontherapy.com