**Appendix 5.**

**Proton Beam Centres**

Proton Beam Therapy is regarded by sections of the medical fraternity as being an experimental technique with outcomes not fully confirmed by long term randomized controlled studies. PBT is the most advanced radiation therapy technique available today and continues to rapidly progress from a technological standpoint. The relatively small number of centres world-wide, also contribute to general ignorance of the technique amongst general practitioners and even urologists and radiation oncologists in almost every country. This star wars-like technology has been used in the treatment of malignant and benign tumours since the 1950′s. As of 2011, over 73,000 patients have been treated at proton beam treatment centres around the world. By mid-2016 this number will have grown to more than 110,000 patients. The number of these centres is growing quickly with around 43 presently treating patients for prostate cancer and another 12 likely to start treating patients before 2017.

There are a small number of Proton Beam Centres around the world that are fixed beam systems that only treat cancers of the eye or the head or neck. These facilities are omitted from the following listings.

**Presently Treating Prostate Cancer Patients - USA**

**James M. Slater, M.D. Proton Treatment and Research Centre, Loma Linda University Medical Centre, California**

http://www.protons.com/proton-therapy/why-choose-lomalinda/our-center.pagetre

Address: 11155 Mountain View Avenue, Loma Linda, California 92354.

Phone: +1-800-776-8667 or +1 (909) 558 3422

The first and most experienced Proton Beam Centre in the world. They have treated more than 17,500 patients since they opened 24 years ago. In 1990 James M. Slater, MD, pioneered the field of proton therapy at Loma Linda University Medical Centre (LLUMC) and it remained the only hospital-based treatment centre of its kind in the United States until 2003. It has treated 12,000 prostate cancer patients in the 24 years. It is interesting to note that 51% of all patients (all cancer forms) were older than 65 years; 34% were in the age group 55 to 64; 9% were 45 to 54 and 6% were younger than 45 years old.

It clinical proton therapy team has the following combined years of experience:

Physicians 170+ years; Physicists and Dosimetrists 270+ years and Therapists 350+ years.

The LLUMC has conducted more clinical trials on more tumour sites and published more long term clinical outcomes than any other proton beam centre in the world.

**The University of Florida Proton Therapy Institute, Florida**

http://www.floridaproton.org/

Address: 2015 North Jefferson Street, Jacksonville, Florida 32206.

Phone: +1 (904) 588 1800

Since opening in August 2006, more than 150,000 proton cancer treatments have been delivered to more than 4,377 patients at the University of Florida Proton Therapy Institute, ranking the facility among the top 10 proton therapy centres worldwide for the number of patients treated.

**M.D. Anderson Cancer Centre’s Proton Centre, Houston, Texas**

http://www.mdanderson.org/patient-and-cancer-information/proton-therapy-center/index.html

Address: The University of Texas MD Anderson Cancer Centre, 1515 Holcombe Blvd, Houston, Texas 77030.

Phone: +1 (713) 792 2121 or ask MDAnderson: +1 (877) 632 6789

Since treating their first patient in May 2006, the dedicated team at the Proton Therapy Centre has helped countless patients overcome cancer and get back to living their lives. Since then they have treated nearly 2,100 men for prostate cancer with proton therapy.

The M.D. Anderson Cancer Centre’s Proton Therapy Centre pioneered pencil beam scanning proton therapy treatment and currently (May 2014) is the only centre in the United States and one of only three clinical centres in the world using this technology to treat patients.

**ProCure Proton Therapy Centre, Oklahoma City, Oklahoma**

www.procure.com/ContactUs/ContactUsOklahomaCity.aspx

Address: 5901 W. Memorial Road, Oklahoma City, Oklahoma 73142.

Phone: +1 (888) 847 2640; from outside the USA: +1 (405) 773 6767

The ProCure Proton Therapy Centre in Oklahoma is one of three such centres operated by ProCure. The Oklahoma facility opened in July 2009 and by September 2011 had treated its 500th patient.

**The Roberts Proton Therapy Centre, University of PA Health System, Philadelphia**

http://www.pennmedicine.org/radiation-oncology/patient-care/treatments/proton-therapy/roberts-proton-therapy-center.html

Address: Perelman Centre for Advanced Medicine, 3400 Civic Centre Boulevard, Philadelphia, Pennsylvania 19104.

Phone: +1 (800) 789 7366

The Roberts Proton Therapy Centre on its web site claims to be the largest such facility in the world with 4 gantry systems and a fixed-beam treatment room. It is housed within Penn Radiation Oncology and is seamlessly integrated with a full range of cancer services provided by Penn’s Abramson Cancer Centre. It is a 75,000 square foot facility within the Perelman Centre for Advanced Medicine.

**Hampton University Proton Therapy Institute, Virginia**

http://www.hamptonproton.org

Address: 40 Enterprise Pkwy, Hampton, Virginia 23666.

Phone: +1 (757) 251 6800

The Hampton University Proton Therapy Institute (HUMPTI) opened in 2010 and its 5 treatment rooms were completed in 2011. It claims to be the world’s largest free-standing proton beam facility. It treats about 1500 patients per year for a wide range of cancers. In early 2013 it formed a strategic alliance with Strategic Alliance Holdings, LLC (SAH) to treat cancer patients from the Middle East and North Africa which includes 32 countries.

**CDH Proton Centre, Chicago Area, Illinois**

http://www.cdhprotoncenter.com/

Address: 4455 Weaver Parkway, Warrenville, Illinois 60555.

Phone: +1 (877) 887 5807

It is one of the three ProCure Proton Beam Therapy centres in the United States. The CDH Proton Centre is the first and only proton radiation centre in Illinois using state-of-the-art technology to treat adults and children with tumours and cancer from all over the world.

**Francis H. Burr Proton Centre, Boston, Massachusetts**

http://www.massgeneral.org/radiationoncology/BurrProtonCenter.aspx

Address: Francis H. Burr Proton Therapy Centre, 30 Fruit Street, Boston, Massachusetts 02114.

Phone: +1 (617) 724 1680

The facility has two treatment rooms and is part of the Massachusetts General Hospital.

**New Jersey/Metro New York ProCure Proton Therapy Centre, New Jersey**

http://www.procure.com/ContactUs/ContactUsNewJersey.aspx

Address: 103 Cedar Grove Lane, Somerset, New Jersey 08873.

Phone: +1 (877) 967 7628

ProCure has joined with CentraState Healthcare System and Princeton Radiation Oncology to ensure patients have a seamless and integrated experience. It is one of the three ProCure Proton Beam Centres in the USA.

**ProCure SCCA Proton Therapy Centre, Seattle, Washington**

http://www.procure.com/OurLocations/Seattle/ExploretheCenter

.asp

Address: 1570 North 115th Street, Seattle, Washington 98133.

Phone: +1 (877) 897 7628 (USA) +1 (206) 306 2800 (Overseas)

It is a partnership between ProCure and the SCCA Proton Therapy Seattle Cancer Care Alliance, Seattle, WA and is located on UW Medicine's Northwest Hospital & Medical Centre campus. The facility has three treatment rooms (one a fixed beam room; one a fixed beam room with the beam orientated at 60 degrees and a gantry room that provides 360 degree rotation).

**The Provision Proton Therapy Centre, Knoxville, Tennessee**

http://www.provisionproton.com/

Address: 6450 Provision Cares Way, Knoxville, Tennessee 37909.

Phone: +1 (865) 862 1600 (USA) +1 (844) 455 8600 (Overseas)

The Provision Centre for Proton Therapy is a member of Provision Health Alliance, nestled in the beautiful Dowell Springs campus in the heart of Knoxville. Its 90,000 square foot facility has the capability to treat up to 1,500 patients each year, and includes three treatment rooms with the latest proton therapy treatment equipment. The centre also houses two additional treatment rooms for the research and development of the ProNova SC360, a lower-cost, smaller, lighter and more energy efficient proton therapy solution that will soon come to market, making proton therapy more affordable and accessible to treat a greater population of cancer patients.

**The S. Lee Kling Proton Therapy Centre,** **Barnes Jewish Hospital, St. Louis, Missouri**

http://www.siteman.wustl.edu

Address: 224 South Euclid Avenue, St. Louis, Missouri.

Phone: +1 (314) 286 1222

The S. Lee Kling Proton Therapy Centre treated their first patient in December 2013. It is the first centre in the world to install the Mevion S250 Proton Therapy System from Mevion Medical Systems, Inc. of Littleton, Massachusetts. This installation is the first of a new generation of Proton Therapy systems with similar treatment options to earlier systems, but with a greatly reduced physical footprint, streamline clinical workflows and greatly reduced implementation and operating costs.

**California Proton Therapy Centre, San Diego, California**

http://www.scripps.org/services/cancer-care\_\_proton-therapy

Address: 9730 Summers Ridge Road, San Diego, California 92121.

Phone: +1 (858) 549 7400

The recently re-opened Proton Therapy Centre offers five treatment rooms, all of which feature pencil-beam scanning technology. Pencil-beam scanning allows the clinical team to manipulate the protons so their energy conforms to each tumour’s unique shape. Three of the five treatment room include 360 degree gantries which allow the selection of an optimum angle of proton radiation to a tumour. The latest suite of imaging tools within the facility include MRI, PET – CT and 4D CT.

**Willis-Knighton Proton Therapy Centre, Shreveport, Louisiana**

http://www.wkhs.com/Cancer/Cancer-Treatment-Services/Proton-Therapy

Address: 2600 Kings Highway, Shreveport, Louisiana 71103.

Phone: +1 (318) 212 8300

The Centre treated its first patients in September 2014. The Centre is the first in the world to use the Proteous One intensity modulated pencil beam technology, which is considered by the staff at the Willis-Knighton Proton Therapy Centre to be game changing.

**UF Health Cancer Centre at Orlando Health Proton Therapy Centre, Orlando, Florida**

http://www.orlandohealth.com

Address: 1400 S. Orange Avenue, Orlando, Florida 32806.

Phone: +1 (321) 843 2584

The 15,000 square foot facility was completed in 2015 and treated its first patients recently. It uses the Mevion S250 superconducting synchrocyclotron proton accelerator. It expects to treat 30 patients a day.

**Mayo Clinic Proton Beam Therapy Programme**

http://www.mayoclinic.org/proton-beam-therapy

Address: Richard O. Jacobson Building, 190 2nd Street NW, Rochester, Minnesota.

Address: Mayo Clinic Phoenix campus – 5777 E. Mayo Boulevard, Phoenix, Arizona, 85054.

Phone: Rochester: +1 (507)255 5123 Phoenix: +1 (480) 515 6296

The Mayo Clinic opened its proton beam facility in Rochester in June 2015. The four treatment rooms will incorporate the latest pencil beam scanning technology and other recent advances. The Phoenix facility opened in March 2016 with similar facilities to the Rochester operation.

**The Laurie Proton Therapy Center, RWJ Barnabas Health, New Jersey**

http://www.rwjuh.edu/proton-therapy/proton-therapy.aspx

Address: One Robert Wood Johnson Place, New Brunswick, New Jersey 08901.

Phone: +1 (732) 253 2533 176

The facility started treating patients after taking delivery of a Mevion S250 Proton Therapy System in July 2012.

**Ackerman Cancer Center, Jacksonville, Florida**

http://ackermancancercenter.com

Address: 10881 San Jose Boulevard, Jacksonville, Florida 32223.

Phone: +1 (904) 880 5522

This is the first privately physician-funded proton therapy system in the United States when it started treating patients in April 2015.

**Maryland Proton Treatment Centre, Baltimore, Maryland**

http://www.umbiopark.com/properties/maryland-proton-treatment-center

Address: 850 W. Baltimore Street, Baltimore, Maryland 21201.

Phone: +1 (410) 706 7590

This facility will be housed in an all-new 100000 square foot facility that will have five treatment rooms (four gantries and one fixed beam system). The centre expects to open in mid-2016.

**Texas Proton Therapy Centre LLC, Irving, Texas**

http://www.texascenterforprotontherapy.com

Address: 1501 West Royal Lane, Irving, Texas 75063.

Phone: +1 (469) 513 5500

The Texas Centre for Proton Therapy delivered a major life-saving cancer treatment to North Texas when it opened in late 2015. This latest-generation proton therapy centre’s IBA system with two gantry rooms and one fixed-beam room is capable of threating 100 people a day.

**University Hospitals, Seidman Cancer Centre, Cleveland, Ohio**

http://www.uhhospitals.org.seidman

Address: 11100 Euclid Avenue, Cleveland, Ohio 44106.

Phone: +1 (866) 844 2273

This facility started treating patients in 2016 using a Mevion S250 system.

**Medstar Georgetown University Hospital Proton Therapy Center, Medstar Georgetown University Hospital, Washington D.C. 20007.**

<http://medstargeorgetown.org>

Address: Reservoir Road NW, Washington DC 20007

Phone: (202) 444 4639

**Proton Therapy Center, Beaumont Hospital Cancer Institute, Royal Oak, MI 48073**

[www.beaumont.org](http://www.beaumont.org)

Address: 3571 West 13 Mile Road, Royal Oak, MI 48073

Phone: (248) 551 8402

**Miami Cancer Institute at Baptist Health South Florida, Miami, FL. Delray Radiation Therapy Center, Delray Beach, FL**

<http://protonintl.com/index.php/projects/delray-radiation-therapy-center>

Address:5352 Linton Blvd

Delray Beach, FL 33484

First patients will be treated in 2019.

**The Stephenson Cancer Centre, Oklahoma University, Oklahoma City, Oklahoma** (under construction – Mevion S250)

http://www.oumedicine.com/cancer

Address: 800 NE 10th Street, Oklahoma City, Oklahoma 73104.

Phone: +1 (855) 750 2273

They are presently installing the first of two Mevion S250 Proton Therapy Systems, which is the first of a new generation of lower cost Proton Therapy Systems from Mevion Medical Systems, Inc.

**The Emory Proton Therapy Centre, Winship Cancer Institute, Atlanta, Georgia.**

https://winshipcancer.emory.edu/patient-care/clinics-and-centers/proton-therapy-center.html

Address: 1365 Clifton Road NE, Bldg. C, Atlanta, Georgia 30322.

Phone: +1 (404) 778 1900

Opened in 2019. It is equipped with 5 Varian ProBeam Technology treatment rooms.

**Johns Hopkins National Proton Center, Washington, DC 20016**

[https://www.hopkinsmedicine.org/sibley-memorial-hospital/patient-care/specialty/cancer/treatment/radiation-oncology/radiation-therapies/proton-therapy.html 6](https://www.hopkinsmedicine.org/sibley-memorial-hospital/patient-care/specialty/cancer/treatment/radiation-oncology/radiation-therapies/proton-therapy.html%206)

Address: Sibley Memorial Hospital, 5255 Loughboro Rd NW, Washington, DC 20016

Phone: 202-537-4787

**USA – Under Construction - Opening after July 2018**

**The McLaren Proton Therapy Centre, Flint, Michigan** (under construction – Radiance 330 Proton Therapy System)

http://www.mclaren.org/protontherapy/protontherapy.aspx

Address: G-4100 Beecher Road, Flint, Michigan 48532.

Phone: +1 (855) 697 7686 or +1 (810) 342 3840

The McLaren Proton Therapy Centre is a partnership between McLaren Health Care and ProTom International, Inc., a Texas-based healthcare technology company. The Centre represents the next generation of proton therapy centres with several advances in design and technology. The three gantry treatment rooms will share the proton beam, generated by the Radiance 330 Synchrotron manufactured by ProTom International. Each of the three gantries will have a pencil beam scanning nozzle and the latest in room CT and X-Ray scanning capabilities.

The shielding walls and lids surrounding the synchrotron, proton beam line and treatment area are one-half, to one-third the thickness of first-generation proton centres.

**Los Angeles Proton Therapy Center, Montebello, CA**

<http://www.beverlymph.com/>

Address: 28202 Cabot Road Suite 640Laguna Niguel, CA 92677

Phone: 949-365-008

The Los Angeles Proton Center will offer the first S250mx Proton System in California. It will be on the campus of the Beverly Hospital.

**Scott Hamilton Proton Therapy Center, Franklin, TN**

http://provisionhealthcare.com/proton-therapy/proton-therapy-system/

The center is due to open in 2020 and will use a ProNova SC360 Proton Therapy System which is manufactured in Knoxville by an affiliated company to Provision Healthcare.

**University of Alabama, Birmingham, AL**

Proton International, in conjunction with the University of Alabama at Birmingham, has broken ground on the first proton therapy facility in the state. The facility, Proton International at UAB, is expected to be ready to treat cancer patients in 2020.

**Providence Proton, St. Vincent's Hospital, Birmingham, AL**

<http://providenceprotontherapy.com/>

Address: 1200 Corporate Drive, Suite 470, Birmingham, AL 35242

Due to open in 2020.

**Inova Schar Cancer Institute, Fairfax, VA**

https://www.inova.org/healthcare-services/cancer/index.jsp

**Address:** 3225 Gallows Road, Falls Church, VA  22031

**Phone:** 571-472-0250

A two-room Proteus®PLUS\* proton therapy system is under construction.

**USA - Planned Facilities**

There are nine other proton beam centres in the USA that are in the planning stage. The first commercial proton therapy centre at Loma Linda in 2016 treated its 15,000th patient. The technique has clearly fully become of age.

**Other Countries**

**China**

**Wanjie Proton Therapy Centre, Zibo, China**

This facility started treating patients in late 2004. It has one gantry room plus a fixed beam room. Their radiation oncologists and therapists were trained at the Massachusetts General Hospital in Boston, USA and their medical engineering staff were trained by IBA in Belgium.

**Czech Republic**

**Proton Therapy Centre s.r.o., Prague, Czech Republic**

http://www.proton-cancer-treatment.com

Address: Budinova 2437/1a, Prague 8, 180 00, Czech Republic

Phone: +42 (0) 222 999 000

This centre that has been in operation since December 2012 has 5 treatment rooms, including a fixed beam room and is supported by a full array of diagnostic equipment including CT, MRI and a PET/CT camera. The centre offers international patients full services and arranges accommodation and transport to and from the centre during the treatment period. Their proton therapy system utilises the latest pencil beam scanning techniques. They also maintain a UK web site to promote their services to British patients. See http://www.ukprotontherapy.co.uk

**France**

**Centre Antoine-Lacassagne (CAL), Nice** (under construction)

http://www.centreantoinelacassagne.org

Address: 227 Avenue de la Lanterne, 06200 Nice, France

Phone: +33 (0) 4 92 03 10 80

Their proton therapy unit (an IBA Proteous One) is presently being commissioned and should be fully operational in the second half 2016.

**Centre de Protontherapie de I’Instit Curie**

http://protontherapie.curie.fr/

Address: Institut Curie, 26 rue d’ulm 75248, Paris cedex 05, France

Phone: +33 (0) 1 69 29 87 00

The facility opened in 2009. It recently upgraded the two fixed beam rooms with a new cyclotron and a gantry room.

**Germany**

**West German Proton Therapy Centre Essen, WPE**

http://www.uk-essen.de/wpe/english/home.html

Address: Hufelandstrasse 55, 45147 Essen, Germany

Phone: +49 (0)201 72255 – 209

The first of four treatment rooms for cancer therapy with protons at the WPE has already been commissioned. Gradually, the further three treatment rooms will follow.

**Rinecker Proton Therapy Centre**

http://www.rptc.de/

Address: Franz-von-Rinecker Strasse, 81371 Munich, Germany

Phone: +49 (0) 89 660 680

The Rinecker Therapy Centre is regarded as Europe’s most prominent Proton Beam Therapy centre. Its facilities include four gantry systems as well as a fixed beam system. The latest imaging systems include MRI, CT-PET and CT. The RPTC is the first large proton therapy centre in Europe to offer a complete hospital setting and comprehensive therapeutic options. Additionally, it is the first clinic in Germany that is also state-licensed for proton radiation treatment of patients with statutory health insurance.

**University Hospital Carl Gustav Carus Dresden**

http://www.uniklinikum-dresden.de/patienten-und-besucher/international-patients

Address: 01304 Dresden, Germany

Phone: +49 (0) 351 458 2036

The international department can assist with enquiries.

**Heidelberg Ion-Beam Therapy Centre (HIT)**

www.klinikum.uni-heidelberg.de

Address: Im Neuenheimer Feld 450, 69120 Heidelberg, Germany

Phone: +49 6221 56-35689

HIT opened fully in 2012 and is Europe’s first combined treatment facility using protons and heavy ions for radiation therapy.

**Italy**

**ATrep – Agenziav Provinciale per la Protontherapia**

http://www.atrep.provincia.tn.it

Address: via f.lli Perini 181, 38122 Trento TN, Italy

Phone: +46 (0) 1- 390409

The facility opened in 2013 and has an IBA two gantry room set up plus a fixed beam treatment room.

**Japan**

**The National Cancer Centre, Kashiwa**

http://www.ncc.go.jp/en/contact.html

Address: 6-5-1 Kashiwanoha, Kashiwa, Chiba 277-8577, Japan

Phone: +81 4 7133 1111

It has two gantry rooms and started treating patients in 1998. It was developed in association with Sumitomo Heavy Industry Ltd.

**Fukui Prefectural Hospital, Fukui City**

http://fph.pref.fukui.lg.jp

Address: 2-8-1 Yotsui, Fukui City

Phone: +8 0776-54-5151

This proton therapy centre was the eighth such facility in Japan and operates two gantries and a fixed beam system.

**Shizuoka Cancer Centre, Shizuoka**

http://www.scchr.jp/english/hospital/toha.html

Address: 1007 Shimonagakubo, Nagaizumi-cho, Sunto-gun, Shizuoka Prefecture 411-8777 Japan

Phone: +81-55-989-5222

Located against a backdrop of majestic Mount Fuji, the Shizuoka Cancer Center was opened in 2002 and offers top-class cancer treatment with cutting-edge medical technology and thorough support for patients.

**Nagoya Proton Therapy Centre, Nagoya**

www.west-medical-center.city.nagoya.jp/

Address: Nagoya City West Medical Centre, 1-1-1 Hirate-cho, Kita-ku, Nagoya, 462-8508, Japan

Phone: +81-52-991-8588

Uses the latest spot scanning techniques, provides an urban type environment for the patient and has the latest imaging technology all integrated to optimize treatment outcomes. It has a 2 gantry system.

**Medipolis Medical Research Institute**

http://www.medipolis-ptrc.org/english/

The Proton Beam Cancer Therapy Centre of the Medipolis Medical Research Institute started cancer treatment in 2011. It has a three gantry facility with one dedicated to breast cancer. The facility offers residential programs from US$50,000. The Proton Beam Cancer Therapy Centre is highly regarded for its superior medical technologies, as well as for its dedicated efforts toward the eradication of cancer. They claim that over 99% of prostate cancer patients treated had no relapse.

**Southern Tohuko Proton Therapy Centre, Fukushima**

http://www.southerntohoku-proton.com/english/greeting.html

Address: 172-7choume, Yatsuyamada, Koriyama, Fukushima 963-8563 JAPAN

This privately managed facility opened in 2008. Their prostate cancer protocol calls for delivery of a total radiation dosage of 74 -78 Grays over 37 to 39 treatments over 7.4 to 8 weeks.

**Proton Medical Research Centre (PMRC), University of Tsukuba, Ibaraki**

http://www.pmrc.tsukuba.ac.jp/engRadiotherapy.html

Address: 2-1-1 Amakubo, Tsukuba, Ibaraki 305-8576, Japan

Phone: +81-29-853-7100

Clinical treatments started with their two gantries in 2001. About 3,000 patients have been treated up until 2011, including about 300 treatments for prostate cancer.

**Okayama University/Tsuyama Chuo Hospital Proton Beam Cancer Centre**

Address: Tsuyama Chuo Hospital, Chugoku-Shikoku region, Southern Japan

The Mitsubishi system has been installed in a new cancer centre due to open by mid-2016. Configuration: unknown.

**Russia**

**Federal High-Technology Centre of Nuclear Medicine of FMBA, Dimitrovgrad**

http://cluster-dgrad.ru

Address: 93, Khmelnitskogo Street, Dimitrovgrad, Ulyanovsk Region, Russia, 433508

Phone: 8 (84235) 4-82-45

It started treating patients via an IBA system with two gantry rooms and a fixed-beam room in 2013. A number of other Russian institutes only have fixed beam systems.

**Sweden**

**Skandion Clinic, Uppsala**

http://www.skandionkliniken.se

The clinic was expected to treat its first patient in late 2015. The IBA system will have two gantry rooms and a fixed beam treatment room.

**South Korea**

**The Proton Therapy Centre, National Cancer Centre,** **Ilsandong**

http://www.nccproton.com/ or www.protonkorea.com (KMI International)

Address: 323 Ilsan-ro, Ilsandong – gu, Goyang – si, Gyeonggi – do, 410-769, Republic of Korea.

Phone: +82-31-920-1934

The Proton Therapy Centre opened in 2007 and has an IBA Porteous system that services three gantry rooms and a fixed-beam room. It treats Korean and international patients. KMI International work closely with the staff at the NCC to arrange first class treatment for international patients. This includes arranging top quality accommodation, daily transport, and a concierge service. (The author underwent prostate cancer treatment at the NCC in early 2013 at a cost of US$53,000 including accommodation).

Their senior professional staff were trained and worked in the United States and speak perfect English.

**Switzerland**

**Paul Scherrer Institut, Villigen**

http://p-therapie.web.psi.ch/e/index.html

Address: 5232 Villigen PSI, Switzerland

Phone: +41 56 310 21 11

PSI operates the first compact scanning-Gantry worldwide for proton radiation therapy of deep-seated tumours. The spot-scanning technique developed at PSI enables malignant tumours to be targeted with high precision deep inside in the body. They are at the leading edge of proton therapy research and are installing a second gantry to expand their treatment offering.

**Taiwan**

**Chang Gung Memorial Hospital,** **Taipei**

https://www.cgmh.org.tw/eng2002/about01.htm

Address: Administration Centre: No.199, Tunghwa Rd.,Taipei, Taiwan, Republic of China

Phone: + 88 6-2-27135211

Their Proton Beam facility started treating patients in 2012. It has four gantries and affixed beam system.