

Proton Therapy in Cancer: Global Markets

<https://marketpublishers.com/r/PD041BF911DAEN.html>

Date: December 2019

Pages: 185

Price: US\$ 2,750.00 (Single User License)

ID: PD041BF911DAEN

Abstracts

REPORT SCOPE:

BCC Research's new report, "Proton Therapy in Cancer: Global Markets," provides a comprehensive analysis of the proton therapy market in global context, including market forecasts and sales through 2024. The report analyzes the market by segmenting it into the various types of room types (single-room and multi-room). The end-user markets focus on hospitals, proton therapy centers, and others. This study surveys the proton therapy market according to various types of cancers (by application) i.e. pediatric cancers, base of skull treatment, central nervous system, head and neck cancer, prostate cancer, sarcomas, lung cancer, and others. The market of proton therapy is also assessed in all the geographic regions including North America, Europe and Emerging markets. The Emerging markets include countries like India, China, Korea, Taiwan, Africa, Australia, New Zealand, Canada, Latin America, etc.

The report features new developments and patents boosting the growth of this market in the global context. A list of leading proton therapy centers, their locations, and other details are also provided.

The new BCC report provides comprehensive profiles of market players in the industry. Industry structure chapter focuses on the changing market trends, leading vendors, their market shares and product offerings. This chapter also covers the mergers and acquisitions and any other collaborations or partnerships that happened during the evaluation period of this report that are expected to shape the industry.

The factors such as strengths, weaknesses, threats and opportunities that are expected to play a role in the proton therapy market are evaluated in detail.

Excluded from this report are the traditional radiation therapy equipment suppliers. The

carbon ion therapy is still a very small market and is thus not included with proton therapy.

REPORT INCLUDES:

55 data tables and 25 additional tables

A comprehensive overview of the global markets for proton therapy or proton beam therapy (PBT) in cancer treatment

Analyses of global market trends with data from 2018, estimates for 2019, and projections of compound annual growth rates (CAGRs) through 2024

Coverage of historical data; effectiveness, clinical benefits and side effects (for treating malignancies) of proton technology; and key role plays across various cancers

Retrospective study outlining difference between proton-based therapy and conventional intensity modulated radiation therapy (IMRT), cost effectiveness for specific patients such as children, and clinical advances in hematology and oncology

Assessment of recent breakthroughs, current R&D activities, rapid technological advances in PBT, expanding utilization of image-guided proton therapy, and latest trends related to this field of clinical research

Patent review and new developments in PBT technologies

Company profiles of leading market participants within the industry, including Elekta Instrument AB, Hitachi, Ltd., Mevion Medical Systems, Inc., Pronova Solutions, Llc, Protom International, Raysearch Laboratories Ab and Varian Medical Systems, Inc.

Contents

CHAPTER 1 INTRODUCTION

Study Goals and Objectives
Reasons for Doing This Study
Scope of Report
Information Sources
Methodology
Geographic Breakdown
Analyst's Credentials
BCC Custom Research
Related BCC Research Reports

CHAPTER 2 SUMMARY AND HIGHLIGHTS

Key Highlights of the Report:

CHAPTER 3 MARKET AND TECHNOLOGY BACKGROUND

History of Proton Therapy
Principles of Proton Therapy
Proton Therapy Technology
Particle Accelerator
Beam Transport System
Beam Delivery System
Proton Delivery Techniques
Patient Positioning Systems
Treatment Rooms
Treatment Planning in Proton Therapy
Treatment Planning Software
Side Effects of Proton Therapy
Technical Limitations of Proton Therapy
Uncertainty in dose distribution:
Correct patient positioning:
Differing values of RBE:
Role of Proton Therapy Across Various Cancers
Pediatric Cancer
Base of Skull Tumors

Central Nervous System (CNS) Cancer

Head and Neck Cancer

Prostate Cancer

Lung Cancer

Others (Gastrointestinal Cancer, Cancer of Connective Tissues and Bone or Sarcomas, Breast Cancer)

Regulations Affecting Proton Therapy Systems

CHAPTER 4 MARKET BREAKDOWN BY TECHNOLOGY TYPE

Market by Room Type

Market Overview

Market Revenue

Market Shares

Market by Technology Type

Market Overview

Market Revenue

Market Shares

Accelerators Market

Beam Delivery Systems Market

Treatment Planning Software Market

Services Market

CHAPTER 5 MARKET BREAKDOWN BY REGION

Insurance and Reimbursement for Proton Therapy

North America

Europe

Emerging Markets

Market by Region

Market Revenue

Market Shares

Single Room Proton Therapy Market

Market Revenue

Multi-Room Proton Therapy Market

Market Revenue

Accelerators Market

Market Revenue

Market Shares

Cyclotrons
Market Revenue
Synchrotrons
Market Revenue
Beam Delivery Systems Market
Market Revenue
Market Shares
Isocentric Gantry
Market Revenue
Fixed Beam Systems
Market Revenue
Treatment Planning Software Market
Market Revenue
Market Shares
Services Market
Market Revenue
Market Shares

CHAPTER 6 MARKET BREAKDOWN BY END USER

Market Analysis by End-Users
Market Revenue
End-Users by Region
Proton Therapy Centers
Hospitals
Universities

CHAPTER 7 MARKET BREAKDOWN BY APPLICATION

Market Analysis by Applications
Market Revenue
Market Share
Prostate Cancer
Market Revenue
Breast Cancer
Lung Cancer
Head and Neck Cancer
Central Nervous System (CNS) Cancer
Base of Skull Cancer

Pediatric Cancer
Other Cancers

CHAPTER 8 INDUSTRY STRUCTURE

Proton Therapy Rooms
Collaborations and Partnerships
Mergers and Acquisitions
Leading Manufacturers/Suppliers in the Global Proton Therapy Market
Accelerators
Beam Delivery Systems
Treatment Planning Software
Services

CHAPTER 9 CLINICAL TRIALS IN PROTON THERAPY

Clinical Trials by Type of Cancer
Clinical Trials by Status of the Study
Clinical Trials by Country
Clinical Trials by Sponsor/Collaborator

CHAPTER 10 PROTON THERAPY CENTERS AND PATIENT VOLUME

Struggle for Proton Therapy Centers
Fight Back for Proton Therapy Centers
Proton Therapy Centers in North America
Proton Therapy Centers in European Union
Proton Therapy Centers in Other Regions
Patient Treatment Volume
Top 10 PTCs in the U.S. and Outside U.S.

CHAPTER 11 PATENT ANALYSIS

Patent Analysis
Patents by Year
Patents by Type
Patents by Company
Patents by Country
Patents by Assignee

CHAPTER 12 ANALYSIS OF MARKET OPPORTUNITIES

Strengths of Proton Therapy Market
Growing Incidence of Cancer
Technological Advances in Proton Therapy
Growing Clinical Evidence
Challenges for Proton Therapy Market
Requirement of Skilled Labor
Cost of Equipment and Facilities
Reimbursement Policies
Difficulty in Enrollment in Clinical Trials
Opportunities for Proton Therapy Market
Emerging Markets
Improvement in Reimbursement Policies
Improvement in Technology
Threats for Proton Therapy Market
Competing Technologies

CHAPTER 13 COMPANY PROFILES

ELEKTA INSTRUMENT AB
HITACHI, LTD.
ION BEAM APPLICATIONS SA (IBA)
KONINKLIJKE PHILIPS N.V
MEVION MEDICAL SYSTEMS, INC.
PRONOVA SOLUTIONS, LLC
PROTOM INTERNATIONAL
RAYSEARCH LABORATORIES AB
SUMITOMO HEAVY INDUSTRIES, LTD.
VARIAN MEDICAL SYSTEMS, INC.

CHAPTER 14 APPENDIX: ABBREVIATIONS

List Of Tables

LIST OF TABLES

Summary Table: Global Proton Therapy Market for Cancer, by Type, Through 2024

Table 1: Timeline for Proton Therapy

Table 2: Photon Therapy vs Proton Therapy

Table 3: Differences Between Scattering and Scanning Proton Beam Delivery

Table 4: FDA Approvals of Proton Therapy Systems

Table 5: Global Market for Proton Therapy, by Room Type, Through 2024

Table 6: Global Market Share for Proton Therapy, by Room Type, 2018

Table 7: Global Market for Proton Therapy, by Technology Type, Through 2024

Table 8: Global Market Share for Proton Therapy, by Technology Type, 2018

Table 9: Global Market for Accelerators, by Type, Through 2024

Table 10: Global Market Share for Accelerators, by Type, 2018

Table 11: Global Market for Beam Delivery Systems, by Type, Through 2024

Table 12: Global Market Share for Beam Delivery Systems, by Type, 2018

Table 13: Global Market for Treatment Planning Software, Through 2024

Table 14: Global Market for Services, Through 2024

Table 15: Global Market for Proton Therapy, by Region, Through 2024

Table 16: Global Market Share for Proton Therapy, by Region, 2018

Table 17: Global Market for Single Room Proton Therapy, by Region Through 2024

Table 18: Global Market for Multi-Room Proton Therapy, by Region Through 2024

Table 19: Global Market for Accelerators, by Region, Through 2024

Table 20: Global Market Share for Accelerators, by Region, 2018

Table 21: Global Market for Cyclotrons, by Region Through 2024

Table 22: Global Market for Synchrotrons, by Region Through 2024

Table 23: Global Market for Beam Delivery Systems, by Region, Through 2024

Table 24: Global Market Share for Beam Delivery Systems, by Region, 2018

Table 25: Global Market for Isocentric Gantries, by Region Through 2024

Table 26: Global Market for Fixed Beam Systems, by Region Through 2024

Table 27: Global Market for Treatment Planning Software, by Region, Through 2024

Table 28: Global Market Share for Treatment Planning Software, by Region, 2018

Table 29: Global Market for Services, by Region, Through 2024

Table 30: Global Market Share for Services Market, by Region, 2018

Table 31: Global Market for Proton Therapy, by End-Users, Through 2024

Table 32: Global Market Share for Proton Therapy, by End-Users, 2018

Table 33: Global Market of Proton Therapy for End-Users, by Region, Through 2024

Table 34: Global Market of Proton Therapy Centers as End-Users, by Region, Through

2024

Table 35: Global Market for Hospitals as End-Users, by Region, Through 2024

Table 36: Global Market for Universities as End-Users, by Region, Through 2024

Table 37: Global Market for Proton Therapy, by Application, Through 2024

Table 38: Global Market Share for Proton Therapy, by Applications, 2018

Table 39: Global Market for Proton Therapy in Prostate Cancer, by Region, Through 2024

Table 40: Global Market for Proton Therapy in Breast Cancer, by Region, Through 2024

Table 41: Global Market for Proton Therapy in Lung Cancer, by Region, Through 2024

Table 42: Global Market for Proton Therapy in Head and Neck Cancer, by Region, Through 2024

Table 43: Global Market for Proton Therapy in CNS Cancer, by Region, Through 2024

Table 44: Global Market for Proton Therapy in Base of Skull Cancer, by Region, Through 2024

Table 45: Global Market for Proton Therapy in Pediatric Cancer, by Region, Through 2024

Table 46: Global Market for Proton Therapy in Other Cancers, by Region, Through 2024

Table 47: Global Market Share for Single and Multi-Treatment Rooms, 2019 and 2021

Table 48: Number of Operational Proton Therapy Rooms, by Region

Table 49: Number of Prospective Proton Therapy Rooms, by Region

Table 50: Collaborations and Partnerships in the Proton Therapy Market, 2017-November 2019

Table 51: Leading Manufacturers/Suppliers of Accelerators, 2018

Table 52: Market Share for Leading Manufacturers/Suppliers of Accelerators, 2018

Table 53: Leading Manufacturers/Suppliers of Gantries, 2018

Table 54: Market Share for Leading Manufacturers/Suppliers of Gantries, 2018

Table 55: Leading Manufacturers/Suppliers of Treatment Planning Software, 2018

Table 56: Market Share for Leading Manufacturers/Suppliers of Treatment Planning Software, 2018

Table 57: Leading Manufacturers/Suppliers of Proton Therapy Services, 2018

Table 58: Market Share for Leading Manufacturers/Suppliers of Proton Therapy Services, 2018

Table 59: Number of Clinical Trials in Proton Therapy, by Cancer Type

Table 60: Number of Clinical Trials in Proton Therapy, by Status of the Study

Table 61: Number of Clinical Trials in Proton Therapy, by Country

Table 62: Number of Clinical Trials in Proton Therapy, by Sponsor/Collaborator

Table 63: List of Proton Therapy Centers that were Affected in U.S.

Table 64: Proton Therapy Centers Operational in North America

Table 65: Prospective Proton Therapy Centers in North America

- Table 66: Proton Therapy Centers Operational in Europe
- Table 67: Prospective Proton Therapy Centers in European Union
- Table 68: Proton Therapy Centers Operational in Other Regions
- Table 69: Prospective Proton Therapy Centers in Other Regions
- Table 70: Number of Patients Treated, by Region, 2015-2018
- Table 71: Top 10 Proton Therapy Centers in U.S. Based on Number of Patients Treated till December 2018
- Table 72: Top 10 Proton Therapy Centers in Regions outside U.S. Based on Number of Patients Treated till December 2018
- Table 73: Patents Issued for Proton Therapy, 2017-26th November 2019
- Table 74: Patents Issued for Proton Therapy, by Type, 2016-2018
- Table 75: Patents Issued for Proton Therapy, by Company, 2017-26th November 2019
- Table 76: Patents Issued for Proton Therapy, by Country, 2017-26th November 2019
- Table 77: Patents Issued for Proton Therapy, by Assignee, 2017-26th November 2019
- Table 78: Construction Costs of Proton Therapy Centers, U.S.
- Table 79: Costs Input for Canadian Proton Therapy Facility
- Table 80: Abbreviations Used in Global Markets of Proton Therapy

List Of Figures

LIST OF FIGURES

Summary Figure: Global Proton Therapy Market for Cancer, by Type, 2018-2024

Figure 1: Global Proton Therapy Centers in Operation, by Region

Figure 2: Global Market for Proton Therapy, by Room Type, 2017-2024

Figure 3: Global Market Share for Proton Therapy, by Room Type, 2018

Figure 4: Global Market for Proton Therapy, by Technology Type, 2017-2024

Figure 5: Global Market Share for Proton Therapy, by Technology Type, 2018

Figure 6: Global Market for Accelerators, by Type, 2017-2024

Figure 7: Global Market Share for Accelerators, by Type, 2018

Figure 8: Global Market for Beam Delivery Systems, by Type, 2017-2024

Figure 9: Global Market Share for Beam Delivery Systems, by Type, 2018

Figure 10: Global Market for Treatment Planning Software, 2017-2024

Figure 11: Global Market for Services, 2017-2024

Figure 12: Global Market for Proton Therapy, by Region, 2017-2024

Figure 13: Global Market Share for Proton Therapy, by Region, 2018

Figure 14: Global Market for Single Room Proton Therapy, by Region, 2017-2024

Figure 15: Global Market for Multi-Room Proton Therapy, by Region, 2017-2024

Figure 16: Global Market for Accelerators, by Region, 2017-2024

Figure 17: Global Market Share for Accelerators, by Region, 2018

Figure 18: Global Market for Cyclotrons, by Region, 2017-2024

Figure 19: Global Market for Synchrotrons, by Region, 2017-2024

Figure 20: Global Market for Beam Delivery Systems, by Region, 2017-2024

Figure 21: Global Market Share for Beam Delivery Systems, by Region, 2018

Figure 22: Global Market for Isocentric Gantry, by Region, 2017-2024

Figure 23: Global Market for Fixed Beam Systems, by Region, 2017-2024

Figure 24: Global Market for Treatment Planning Software, by Region, 2017-2024

Figure 25: Global Market Share for Treatment Planning Software, by Region, 2018

Figure 26: Global Market for Services, by Region, 2017-2024

Figure 27: Global Market Share for Services Market, by Region, 2018

Figure 28: Global Market for Proton Therapy, by End-Users, 2017-2024

Figure 29: Global Market Share for Proton Therapy, by End-Users, 2018

Figure 30: Global Market of Proton Therapy for End-Users, by Region, 2017-2024

Figure 31: Global Market of Proton Therapy Centers as End-Users, by Region, 2017-2024

Figure 32: Global Market for Hospitals as End-Users, by Region, 2017-2024

Figure 33: Global Market for Universities as End-Users, by Region, 2017-2024

Figure 34: Global Market for Proton Therapy, by Application, 2017-2024

Figure 35: Global Market Share for Proton Therapy, by Application, 2018

Figure 36: Global Market for Proton Therapy in Prostate Cancer, by Region, 2017-2024

Figure 37: Global Market for Proton Therapy in Breast Cancer, by Region, 2017-2024

Figure 38: Global Market for Proton Therapy in Lung Cancer, by Region, 2017-2024

Figure 39: Global Market for Proton Therapy in Head and Neck Cancer, by Region, 2017-2024

Figure 40: Global Market for Proton Therapy in CNS Cancer, by Region, 2017-2024

Figure 41: Global Market for Proton Therapy in Base of Skull Cancer, by Region, 2017-2024

Figure 42: Global Market for Proton Therapy in Pediatric Cancer, by Region, 2017-2024

Figure 43: Global Market for Proton Therapy in Other Cancers, by Region, 2017-2024

Figure 44: Global Market Share for Single and Multi-Treatment Rooms, 2019

Figure 45: Market Share for Leading Manufacturers/Suppliers of Accelerators, 2018

Figure 46: Market Share for Leading Manufacturers/Suppliers of Gantries, 2018

Figure 47: Market Share for Leading Manufacturers/Suppliers of Treatment Planning Software, 2018

Figure 48: Market Share for Leading Manufacturers/Suppliers of Proton Therapy Services, 2018

Figure 49: Patents Issued for Proton Therapy, 2017-26th November 2019

Figure 50: Patents Issued for Proton Therapy, by Type, 2016-2018

Figure 51: Patents Issued for Proton Therapy, by Company, 2017-26th November 2019

Figure 52: Patents Issued for Proton Therapy, by Country, 2017-26th November 2019

Figure 53: Patents Issued for Proton Therapy, by Assignee, 2017-26th November 2019

Figure 54: SWOT Analysis of the Global Proton Therapy Market

I would like to order

Product name: Proton Therapy in Cancer: Global Markets

Product link: <https://marketpublishers.com/r/PD041BF911DAEN.html>

Price: US\$ 2,750.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/PD041BF911DAEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970