

<MOLDCARE Research Paper List>
Others

Year/Month	Magazine, Publication, Media or Event	Title	Authors	Institutions	Part of the Body / Case	Equipment / Treatment Method	Patient Positioning Device set up used during Research
2011/10	Cancers 2011, 3(4)	Carbon Ion Radiotherapy at the Gunma University Heavy Ion Medical Center: New Facility Set-up	Tatsuya Ohno *,Tatsuaki Kanai,Satoru Yamada,Ken Yusa,Mutsumi Tashiro,Hirofumi Shimada,Kota Torikai,Yukari Yoshida,Yoko Kitada,Hiroyuki Katoh,Takayoshi Ishii andTakashi Nakano	Gunma University Heavy Ion Medical Center, Gunma University, Showa 3-39-22, Maebashi, Gunma 371-8511, Japan	General	Carbon Ion Radiotherapy	Moldcare + 3mm thermoplastic mask
2011/10	Radiotherapy and Oncology 98 (2011)	Malignant mucosal melanoma treated with carbon ion radiotherapy with concurrent chemotherapy: Prognostic value of pretreatment apparent diffusion coefficient (ADC)	Keiichi Jingua,b,t, Riwa Kishimotoa, Jun-Etsu Mizoea, Azusa Hasegawaa, Hiroki Besshoa, Hiroshi Tsujia, Tadashi Kamadaa, Shogo Yamadab, Hirohiko Tsujia	a Research Center for Charged Particle Therapy, National Institute of Radiological Sciences (NIRS), Japan; bDepartment of Radiation Oncology, Tohoku University School of Medicine, Japan	Melanoma	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfilter low-temperature thermoplastic
2013/09	BioMed Research International Volume 2013	Total Marrow Irradiation as Part of Autologous Stem Cell Transplantation for Asian Patients with Multiple Myeloma	Shih-Chiang Lin,1,2,3 Pei-Ying Hsieh, 1 Pei-Wei Shueng,4 Hui-Ju Tien,4Li-Ying Wang, 5,6 and Chen-Hsi Hsieh 4,7,8	1 Division of Medical Oncology and Hematology, Department of Internal Medicine, Far Eastern Memorial Hospital,New Taipei City 220, Taiwan2 Department of Nursing, Oriental Institute of Technology, New Taipei City 220, Taiwan3 Department of Biotechnology, School of Healthy Technology, Ming Chuan University, Taipei 111, Taiwan4 Division of Radiation Oncology, Department of Radiology, Far Eastern Memorial Hospital, No. 21, Section 2,Nanya S. Road, Bangqiao District, New Taipei City 220, Taiwan5 School and Graduate Institute of Physical Therapy, College of Medicine, National Taiwan University, Taipei 100, Taiwan6 Physical Therapy Center, National Taiwan University Hospital, Taipei 100, Taiwan7 Department of Medicine, School of Medicine, National Yang-Ming University, Taipei 112, Taiwan8 Institute of Traditional Medicine, School of Medicine, National Yang-Ming University, Taipei 112, Taiwan	Total Marrow	Helical Tomotherapy Total Marrow Irradiation	Moldcare + Civco MT-CHFN-C thermoplastic head frame + s-type mask or Qfix AccuFix Cantilever Board with thermoplastic fixation
2013/09	Technology in Cancer Research and Treatment	Immobilization Considerations for Proton Radiation Therapy	Andrew J. Wroe, David A. Bush, Jerry D. Slater	Loma Linda University	General	Proton Therapy	Moldcare
2014/03	Journal of Radiation Research, Volume 55, Issue 2	Clinical trial of carbon ion radiotherapy for gynecological melanoma	Kumiko KARASAWA1,*,Masaru WAKATSUKI1,Shingo KATO2, Hiroki KIYOHARA3, Tadashi KAMADA1andthe Working Group for Gynecological Tumors	1Research Center Hospital for Charged Particle Therapy, National Institute of Radiological Sciences, 4-9-1 Anagawa, Inage-ku, Chiba-city, Chiba 263-8555, Japan 2Department of Radiation Oncology, Saitama Medical University International Medical Center, 1397-1, Yamane, Hidaka-shi, Saitama, 350-1298, Japan 3Gunma University Heavy Ion Medical Center, 3-39-22 Showa-machi, Maebashi, Gunma, 371-8511, Japan	Melanoma	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfilter fixation body shell
2015/03	International Journal of Clinical Medicine, 2015, 6	High Dose Rate (HDR) Brachytherapy for Mycosis Fungoides of the Wrist	Gaurav Shukla1, Virginia Lockamy1, James Keller1, Joya Sahu2, Barbara Pro3, Onder Alpdogan3, Wenyin Shi1*	1 Department of Radiation Oncology, Thomas Jefferson University, Philadelphia, PA, USA 2 Department of Dermatology, Thomas Jefferson University, Philadelphia, PA, USA 3 Department of Medical Oncology, Thomas Jefferson University, Philadelphia, PA, USA	Wrist	Brachytherapy	Moldcare
2017/11	Radiation Oncology 12	Predictive factors of acute skin reactions to carbon ion radiotherapy for the treatment of malignant bone and soft tissue tumors	Yosuke Takakusagi 1, Jun-ichi Saitoh 1,2,ss, Hiroki Kiyohara 1, Takahiro Oike 1, Shin-ei Noda 1, Tatsuya Ohno 1, Takashi Nakano 1	1Gunma University Heavy Ion Medical Center, 3-39-22, Showa-machi, Maebashi, Gunma 371-8511 Japan 2Department of Radiation Oncology, Gunma University Graduate School of Medicine, 3-39-22, Showa-machi, Maebashi, Gunma 371-8511 Japan	Bone Soft Tissue	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfilter (low-temperature thermoplastic)
2018	P408	Pediatric Radiation Oncology	Thomas E. Merchant, Rolf-Dieter Kortmann	Department of Radiation Oncology St Jude Children's Research Hospital Department of Radiation Oncology University of Leipzig	Pediatric		Moldcare
2019/04	Physica Medica 60 (2019)	Implementing safe and robust Total Marrow Irradiation using HelicalTomotherapy – A practical guide	André Haraldssona,b,*, Jacob Engellaua,b, Stig Lenhoffb, Silke Engelholm, Sven Bäckb, Per E. Engströmb	a Medical Radiation Physics, Lund University, Lund, Sweden b Department of Haematology, Oncology and Radiation Physics, Skåne University Hospital, Lund, Sweden	Total Marrow	Helical Tomotherapy Total Marrow Irradiation	Moldcare + VacFix Large Vacuum Cushion + Orfit 5 Point Ioan-Face Thermoplastic Mask
2019/07	The 38 th ESTRO Conference Poster Session	Patients´ experiences with whole body irradiation using Tomotherapy	Petronella Lannerheim Saure, Carola Hagström and Anette Löfgren	Department of Hematology, Oncology and Radiation physics, Skåne University Hospital, Lund, Sweden	Whole Body	Tomo Therapy / Total Body Irradiation	Moldcare + Orfit (5-point open-face thermoplastic mask) with large vacuum cushion
2020/12	Physica Medica Volume 80	Validation and practical implementation of seated position radiotherapy in a commercial TPS for proton therapy	Dominic Maes a b, Martin Janson c, Rajesh Regmi a, Alexander Egan a, Anatoly Rosenfeld b, Charles Bloch a d, Tony Wong a d, Jatinder Saini a d	a Seattle Cancer Care Alliance Proton Therapy Center, 1570 N 115th St., Seattle, WA 98133, United States b Centre for Medical Radiation Physics, University of Wollongong, Wollongong, NSW 2500, Australia c RaySearch Laboratories, Sveavägen 44, 111 34 Stockholm, Sweden d Departments of Radiation Oncology, University of Washington School of Medicine, 1959 NE Pacific St., Seattle, WA 98195, United States	General	Proton Therapy / Seated Position Radiotherapy	Moldcare + Qfix BoS™ frame, BoS™ mask, BoS™ back support insert, treatment chair RT-4534
2021/08	ESTRO Conference Session	Procedure for total body irradiation (TBI) with Helical Tomotherapy	Carlos Ferrer, Concepción Huertas, Rodrigo Plaza, Patricia de la Monja, Cristina Mínguez, David García, Alejandro Aznar, Moisés Sáez	H.U. La Paz, Medical Physics Department, Madrid, Spain	Total Body	TomoHD™ / Total Body Irradiation	Moldcare + Thermoplastic mask
2022/05	ESTRO Poster	Refinement of treatment setup accuracy using stereotactic system for paediatric immobilization	Santiago Velázquez, José Luis León García, Felipe Arturo Derecho Torres, D.Muñoz, F.J. Luis Unidad de Oncología Integral Hospital Universitario Virgen del Rocío santiago. Velazquez, sspa	Servicio de Oncología Radioterápica Hospital Universitario Virgen del Rocío, Sevilla, España	Pediatric	SBRT	Moldcare + AnateGe eXaKid Stereotactic System for Pediatric Immobilization
2022/11	Physical and Engineering Sciences in Medicine	Deep neural network-based automatic bowel gas segmentation on X-ray images for particle beam treatment	Toshio Kumakiri, Shinichiro Mori, Ryusuke Hirai, Ayato Hashimoto, Yasuhiko Tachibana, Hiroki suyari, Hitoshi Ishikawa	National Institutes for Quantum Science and Technology Institute for Quantum Medical Science Chiba University Graduate School of Engineering Chiba University Graduate School of Science and Engineering National Institutes for Quantum Science and Technology QST hospital	General	Particle Beam Treatment	Moldcare + Kuraray Shellfilter low-temperature thermoplastic shell
2023/01	Journal of Applied Clinical Medical Physics	Evaluation of treatment planning system accuracy in estimating the stopping-power ratio of immobilization devices for proton therapy	Kai Jiang, Michael MacFarlane, Sina Mossahebi, Mark J. Zakhary	Department of Radiation Oncology, Universityof Maryland School of Medicine, Baltimore,Maryland, USA	General	Proton Therapy	Moldcare / CIVCO Vac-Lok bags
2023/03	Medical Dosimetry Volume 48, Issue 3, Autumn 2023, Pages 149-153	A case study of radiotherapy treatment for Dupuytren's contracture and Ledderhose disease	Paige Solie MLS, Bryan Stump MHA, RT(R)(T), Cortney Cashner RT(R), Nishele Lenards, Ashley Hunzeker MS, CMD, Sabrina Zeiler MS, CMD, RT(T)	Medical Dosimetry Program, University of Wisconsin-La Crosse, La Crosse, WI, 54601, USA	Dupuytren's Contracture		Moldcare
2023/10	Cancers 2023, 15(19)	Planning Strategy to Optimize the Dose-Averaged LET Distribution in Large Pelvic Sarcomas/Chordomas Treated with Carbon-Ion Radiotherapy	Ankita Nachankar 1,2,*, Mansure Schafasand 1,3,4 , Antonio Carlino 1, Eugen Hug 1, Markus Stock 1,4, Joanna Góra 1 and Piero Fossati 1,5	1 MedAustron Ion Therapy Center, 2700 Wiener Neustadt, Austria; 2 ACMIT GmbH, 2700 Wiener Neustadt, Austria 3 Department of Radiation Oncology, Medical University of Vienna, 1090 Wien, Austria 4 Division Medical Physics, Karl Landsteiner University of Health Sciences, 3500 Krems an der Donau, Austria 5 Division Radiation Oncology, Karl Landsteiner University of Health Sciences, 3500 Krems an der Donau, Austria	Sarcomas, Chordomas	Carbon Ion Radiotherapy	MOLDCARE® Cushion
2024/04	ONCOLOGY SPRING MEETING	SARCOMA DE KAPOSÍ – DESAFIOS NO PLANEAMENTO DOSIMÉTRICO DE DOIS DOENTES COM LESÕES NOS PÉS	RUTE POCINHO, MIGUEL LABAREDA, LÍLIA MORENO, ANDRÉ PEREIRA, MARIA JESUS COSTA		Sacroma	IMRT	Moldcare

<Case Report>							
2023/07	Case Report (UK)	Use of MOLDCARE Cushions in the Immobilisation of Extremities	Adrian Cubbin DCR(T) Mould Room, Cork University Hospital	Cork University Hospital		Extremities	Moldcare + Orfit Extremities Solution Boards
2024/03	Case Report (France)	HN-0.5 / Breast Report	Centre Saint-Jean Saint-Doulchard	Centre Saint-Jean Saint-Doulchard	Positioning Arms for Breast Treatment	SBRT	Moldcare (HN 0.5) + Macromedics BreastBoard LX
2024/03	Case Report (France)	HN-2 / Extremities Report	Centre Saint-Jean Saint-Doulchard	Centre Saint-Jean Saint-Doulchard	Extremities (Arm and Hand)	SBRT	Moldcare (HN 2 and BR 3)
2024/03	Case Report (France)	HN1 & HN2 TEST	Institut de Bourgogne – Dijon	Institut de Bourgogne – Dijon	Extremities (Elbow)	SBRT	Moldcare (HN 1 and HN 2)

Remarks: Descriptions on this list are based on the original papers.

<Video Presentation>							
2023/11	Presentation at the SGRT Europe, November 2023	Using SGRT for faster, safer and more accurate extremity patient positioning	Ignacio Navarro Ruiz de Adana at Fundación Jiménez Díaz	Fundación Jiménez Díaz		Extremity	SGRT
							Moldcare + AlignRT

<Media Spotlight>							
2023/11	Linkedin	Improving Reproducibility in Extremities Immobilization - ASRT Workshop				Extremities	General
							Moldcare + Orfit Extremities Solution
2025/08	YouTube	How to Immobilize Lower Extremities with Comfort and Consistency?				Extremities	General
							Moldcare + Orfit Extremities Solution
2025/09	Linkedin	Orfit's Extremities Solution				Extremities	General
							Moldcare + Orfit Extremities Solution
2025/09	Linkedin	The Importance of Immobilization for LDRT	Matt Spraker, Radiation Oncologist Meredith Gall, Radiation Oncology Manager	AdventHealth's Rocky Mountain Region		Extremities	LDRT
							Moldcare + Orfit AIO Solution 3.0