

**<MOLDCARE Research Paper List>**  
**Breast (general)**

Year/Month	Magazine, Publication, Media or Event	Title	Authors	Part of the Body / Case	Equipment / Treatment Method	Patient Positioning Device set up used during Research
2004/08	International Journal of Radiation Oncology Biology Physics Volume 59, Issue 5	<a href="#">Results of the first prospective study of carbon ion radiotherapy for hepatocellular carcinoma with liver cirrhosis</a>	Hirotohi Kato, Hirohiko Tsujii, Tadaaki Miyamoto, Jun-etsu Mizoe, Tadashi Kamada, Hiroshi Tsuji, Shigeru Yamada, Susumu Kandatsu, Kyosan Yoshikawa, Takayuki Obata, Hidefumi Ezawa, Shinroku Morita, Minoru Tomizawa, Naoki Morimoto, Junichi Fujita, Masao Ohto; Liver Cancer Working Group	Liver	Carbon Ion Radiotherapy	<b>Moldcare</b> + Kuraray Shellfitter low-temperature thermoplastic shell
2005/11	International Journal of Radiation Oncology Biology Physics Volume 63, Issue 4 (Abstract)	<a href="#">Hypofractionated radiotherapy with carbon ion beams for prostate cancer</a>	Hiroshi Tsuji, Takeshi Yanagi, Hitoshi Ishikawa, Tadashi Kamada, Jun-etsu Mizoe M.D., Tatsuaki Kanai, Shinroku Morita, Hirohiko Tsujii, Working Group for Genitourinary Tumors	Prostate	Carbon Ion Radiotherapy	<b>Moldcare</b>
2006/11	International Journal of Radiation Oncology Biology Physics Volume 66, Issue 4	<a href="#">Risk factors of late rectal bleeding after carbon ion therapy for prostate cancer</a>	Hitoshi Ishikawa, Hiroshi Tsuji, Tadashi Kamada, Naoki Hirasawa, Takeshi Yanagi, Jun-Etsu Mizoe, Koichiro Akakura, Hiroyoshi Suzuki, Jun Shimazaki, Hirohiko Tsujii	Prostate	Carbon Ion Radiotherapy	<b>Moldcare</b> + Kuraray Shellfitter low-temperature thermoplastic shell
2010/04	Radiotherapy and Oncology 96 (2010)	<a href="#">Compensatory enlargement of the liver after treatment of hepatocellular carcinoma with carbon ion radiotherapy – Relation to prognosis and liver function</a>	Hiroshi Imada, Hirotohi Kato, Shigeo Yasuda, Shigeru Yamada, Takeshi Yanagi, Ryusuke Hara, Riwa Kishimoto, Susumu Kandatsu, Shinichi Minohara, Jun-etsu Mizoe, Tadashi Kamada	Liver	Carbon Ion Radiotherapy	<b>Moldcare</b> + Kuraray Shellfitter low-temperature thermoplastic shell
2010/05	Radiotherapy and Oncology 96 (2010)	<a href="#">Comparison of efficacy and toxicity of short-course carbon ion radiotherapy for hepatocellular carcinoma depending on their proximity to the porta hepatis</a>	Hiroshi Imada, Hirotohi Kato, Shigeo Yasuda, Shigeru Yamada, Takeshi Yanagi, Riwa Kishimoto, Susumu Kandatsu, Jun-etsu Mizoe, Tadashi Kamada, Osamu Yokosuka, Hirohiko Tsujii	Liver	Carbon Ion Radiotherapy	<b>Moldcare</b> + Kuraray Shellfitter low-temperature thermoplastic shell
2012/04	International Journal of Urology Volume 19, Issue 4	<a href="#">Carbon-ion radiation therapy for prostate cancer</a>	Hitoshi Ishikawa, Hiroshi Tsuji, Tadashi Kamada, Koichiro Akakura, Hiroyoshi Suzuki, Jun Shimazaki, Hirohiko Tsujii, the Working Group for Genitourinary Tumors	Prostate	Carbon Ion Radiotherapy	<b>Moldcare</b> + Kuraray Shellfitter low-temperature thermoplastic sheet
2015/04	Radiation Oncology 10	<a href="#">Radiation-induced rib fracture after stereotactic body radiotherapy with a total dose of 54–56 Gy given in 9–7 fractions for patients with peripheral lung tumor: impact of maximum dose and fraction size</a>	Masahiko Aoki, Mariko Sato, Katsumi Hirose, Hiroyoshi Akimoto, Hideo Kawaguchi, Yoshiomi Hatayama, Shuichi Ono & Yoshihiro Takai	Lung	Mitsubishi Electric EXL-20TP / SBRT	<b>Moldcare</b>
2015/05	British Journal of Radiology Vol. 88, No. 1051	<a href="#">Variation in patient position and impact on carbon-ion scanning beam distribution during prostate treatment</a>	S Mori, T Inaniwa, K Miki, K Tanimoto, M Tajiri, D Kuroiwa, M Nakao, Y Shiraishi, K Shibayama and H Tsuji	Prostate	Carbon Ion Radiotherapy	<b>To be added</b>
2015/10	Radiation Oncology 10	<a href="#">Feasibility of accelerated partial breast irradiation with volumetric-modulated arc therapy in elderly and frail patients</a>	Olivier Riou, Pascal Fenogletto, Céline Bourcier, Olivier Lauche, Fatima Boulbair, Marie Charissoux, Angélique Duceil, Norbert Aillères, Claire Lemanski & David Azria	Breast	IMRT, VMAT	<b>Moldcare</b> + arm and knee support
2016/05	International Journal of Radiation Oncology Biology Physics Volume 95, Issue 1 (Abstract)	<a href="#">Carbon Ion Radiation Therapy With Concurrent Gemcitabine for Patients With Locally Advanced Pancreatic Cancer</a>	Makoto Shinoto, Shigeru Yamada, Kotaro Terashima, Shigeo Yasuda MD, Yoshiyuki Shioyama, Hiroshi Honda, Tadashi Kamada, Hirohiko Tsujii, Hiromitsu Saisho, Working Group for Pancreas Cancer	Pancreatic	Carbon Ion Radiotherapy	<b>Moldcare</b>
2016/08	World Journal of Radiology Vol. 8 (8)	<a href="#">Helical tomotherapy and volumetric modulated arc therapy: New therapeutic arms in the breast cancer radiotherapy</a>	Olivier Lauche, Youlia M Kirova, Pascal Fenogletto, Emilie Costa, Claire Lemanski, Celine Bourcier, Olivier Riou, David Tiberi, Francois Campana, Alain Fourquet, David Azria	Breast	HT (helical tomotherapy) and VMAT (volumetric modulated arc therapy)	<b>Moldcare</b> used with VMAT, Cervical thermoplastic mask used with HT
2017/01	Physica Medica Volume 33	<a href="#">Fiducial marker matching versus vertebral body matching: Dosimetric impact of patient positioning in carbon ion radiotherapy for primary hepatic cancer</a>	Satoshi Abe, Yoshiki Kubota, Kei Shibuya, Yoshinori Koyama, Takanori Abe, Tatsuya Ohno, Takashi Nakano	Hepatic	Carbon Ion Radiotherapy	<b>Moldcare (BR 3)</b> + Kuraray shell fitter mask
2017/04	Journal of Thoracic Oncology Volume 12, Issue 4	<a href="#">A Dose Escalation Clinical Trial of Single-Fraction Carbon Ion Radiotherapy for Peripheral Stage I Non-Small Cell Lung Cancer</a>	Naoyoshi YamamotoMD, PhD, Tadaaki MiyamotoMD, PhD, Mio NakajimaMD, PhD, Masataka KarubeMD, Kazuhiko HayashiMD, PhD, Hiroshi TsujiiMD, PhD, Hirohiko TsujiiMD, PhD, Tadashi KamadaMD, PhD, Takehiko FujisawaMD, PhD	Lung	Carbon Ion Radiotherapy	<b>Moldcare</b> or Kuraray Shellfitter thermoplastic mask
2017/04	Reports of Practical Oncology and Radiotherapy 22 (2)	<a href="#">SBRT planning for liver metastases: A focus on immobilization, motion management and planning imaging techniques</a>	Olivier Riou, Carmen Llacer Moscardo, Pascal Fenogletto, Emmanuel Deshayes, Raphaël Tetreau, Jessica Molinier, Alexis Lenglet, a Eric Assenat, Marc Ychou, Boris Guiu, Norbert Aillères, Ludovic Bedos and David Azria	Liver	CyberKnife®, Linac / SBRT, IMRT, VMAT	<b>Moldcare</b>
2017/05	Radiation Oncology 12	<a href="#">Prognostic analysis of radiation pneumonitis: carbon-ion radiotherapy in patients with locally advanced lung cancer</a>	Kazuhiko Hayashi, Naoyoshi Yamamoto, Masataka Karube, Mio Nakajima, Naruhiro Matsufuji, Hiroshi Tsuji, Kazuhiko Ogawa & Tadashi Kamada	Lung	Carbon Ion Radiotherapy	<b>Moldcare</b> + Kuraray Shellfitter thermoplastic
2018/02	Anticancer Research Vol. 38 (2)	<a href="#">A Phase I Study of Hypofractionated Carbon-ion Radiotherapy for Stage III Non-small Cell Lung Cancer</a>	Jun-ichi Saitoh, Katsuyuki Shirai, Takanori Abe, Nobuteru Kubo, Takeshi Ebara, Tatsuya Ohno, Koichi Minato, Ryusei Saito, Masanobu Yamada, Takeshi Nakano and The Working Group of the Lung Tumor	Lung	Hypofractionated Carbon Ion Radiotherapy	<b>Moldcare</b> + Sanyo Polymer Industrial Shellfitter thermoplastic shell
2018/03	Cancer Science Volume 109, Issue 5	<a href="#">Feasibility of carbon-ion radiotherapy for re-irradiation of locoregionally recurrent, metastatic, or secondary lung tumors</a>	Kazuhiko Hayashi, Naoyoshi Yamamoto, Masataka Karube, Mio Nakajima, Hiroshi Tsuji, Kazuhiko Ogawa, Tadashi Kamada	Lung	Carbon Ion Radiotherapy	<b>Moldcare</b> + Kuraray Shellfitter thermoplastic
2018/12	Cancer Science Volume 110, Issue 1	<a href="#">Single fraction carbon ion radiotherapy for colorectal cancer liver metastasis: A dose escalation study</a>	Hirokazu Makishima, Shigeo Yasuda, Yuka Isozaki, Goro Kasuya, Naomi Okada, Masaru Miyazaki, Osama Mohamad, Naruhiro Matsufuji, Shigeru Yamada, Hiroshi Tsuji, corresponding author Tadashi Kamada, and the Liver Cancer Working Group	Rectal	Carbon Ion Radiotherapy	<b>Moldcare</b> + Kuraray Shellfitter thermoplastic
2018/11	Cancer Science Volume 110, Issue 2	<a href="#">Clinical outcomes of carbon-ion radiotherapy for locally advanced non-small-cell lung cancer</a>	Kazuhiko Hayashi, Naoyoshi Yamamoto, Mio Nakajima, Akihiro Nomoto, Hiroshi Tsuji, Kazuhiko Ogawa, Tadashi Kamada	Lung	Carbon Ion Radiotherapy	<b>Moldcare</b> + Kuraray Shellfitter Thermoplastic
2019/09	Cancer Medicine Volume 8, Issue 15	<a href="#">Hypofractionated carbon-ion radiotherapy for stage I peripheral nonsmall cell lung cancer (GUNMA0701): Prospective phase II study</a>	Jun-ichi Saitoh, Katsuyuki Shirai, Tatsuji Mizukami, Takanori Abe, Takeshi Ebara, Tatsuya Ohno, Koichi Minato, Ryusei Saito, Masanobu Yamada, Takashi Nakano	Lung	Hypofractionated Carbon Ion Radiotherapy	<b>Moldcare</b> + Sanyo Polymer Industrial Shellfitter thermoplastic shell
2020/03	Clinical and Translational Radiation Oncology Volume 21	<a href="#">Influence of dose-averaged linear energy transfer on tumour control after carbon-ion radiation therapy for pancreatic cancer</a>	Yasuhiro Hagiwara, Tapesh Bhattacharyya, Naruhiro Matsufuji, Yuka Isozaki, Hirotohi Takiyama, Kenji Nemoto, Hiroshi Tsuji, Shigeru Yamada	Pancreatic	Carbon Ion Radiotherapy	<b>Moldcare</b> + Kuraray Shellfitter theomplastic shells
2020/03	Advances in Radiation Oncology Volume 5, Issue 2	<a href="#">Long-Term Results of High-Dose 2-Fraction Carbon Ion Radiation Therapy for Hepatocellular Carcinoma</a>	Shigeo Yasuda, Hirotohi Kato, Hiroshi Imada, Yuka Isozaki, Goro Kasuya, Hirokazu Makishima, Hiroshi Tsuji, Daniel K. Ebner, Shigeru Yamada, Tadashi Kamada, MD, Hirohiko Tsujii, Naoya Kato, Masaru Miyazaki and the Working Group for Liver Tumor	Liver	Carbon Ion Radiotherapy	<b>Moldcare</b> + Kuraray Shellfitter low-temperature thermoplastic sheet

2020/03	Radiotherapy and Oncology Volume 144	<a href="#">Dose assessment for patients with stage I non-small cell lung cancer receiving passive scattering carbon-ion radiotherapy using daily computed tomographic images: A prospective study</a>	Yang Li, Yoshiki Kubota, Nobuteru Kubo, Tatsuji Mizukami, Makoto Sakai, Hidemasa Kawamura, Daisuke Irie, Naoko Okano, Kazuhisa Tsuda, Akihiko Matsumura, Jun-ichi Saitoh, Takashi Nakano, Tatsuya Ohno	Lung	Carbon Ion Radiotherapy	<b>Moldcare</b> + Sanyo Polymer Industrial Shellfitter body shell
2020/03	Cancers Volume 12 (3)	<a href="#">Kinetics of Prostate-Specific Antigen after Carbon Ion Radiotherapy for Prostate Cancer</a>	Narisa Dewi Maulany Darwis, Takahiro Oike, Hidemasa Kawamura, Masahiro Kawahara, Nobuteru Kubo, Hiro Sato, Yuhei Miyasaka, Hiroyuki Katoh, Hitoshi Ishikawa, Hiroshi Matsui, Yoshiyuki Miyazawa, Kazuto Ito, Kazuhiro Suzuki, Soehartati Gondhowiardjo, Takashi Nakano, and Tatsuya Ohno	Prostate	Carbon Ion Radiotherapy	<b>Moldcare</b> + Kuraray Shellfitter low-temperature thermoplastic shell
2020/12	Physica Medica Volume 80	<a href="#">Four-dimensional carbon-ion pencil beam treatment planning comparison between robust optimization and range-adapted internal target volume for respiratory-gated liver and lung treatment</a>	Takayuki Kanai, Athena Paz, Wataru Furuichi, Ching-Sheng Liu, Pengbo He, Shinichiro Mori	Lung	Carbon Ion Radiotherapy	<b>Moldcare</b> + Kuraray Shellfitter low-temperature thermoplastic shells
2021/01	Clinical and Translational Radiation Oncology Volume 26	<a href="#">Efficacy and feasibility of re-irradiation using carbon ions for pancreatic cancer that recurs after carbon-ion radiotherapy</a>	Yasuhiro Hagiwara, Shigeru Yamada, Yuka Isozaki, Hirotohi Takiyama, Makoto Shinoto, Shohei Kawashiro, Tapes Bhattacharyya, Kenji Nemoto, Hiroshi Tsuji	Pacreatic	Carbon Ion Radiotherapy	<b>Moldcare</b> + Kuraray Shellfitter thermoplastic shells
2021/02	Japanese Journal of Radiology Volume 39	<a href="#">Carbon-ion radiotherapy for octogenarians with locally advanced non-small-cell lung cancer</a>	Kazuhiko Hayashi, Naoyoshi Yamamoto, Mio Nakajima, Akihiro Nomoto, Hitoshi Ishikawa, Kazuhiko Ogawa, Hiroshi Tsuji	Lung	Carbon Ion Radiotherapy	<b>Moldcare</b> + Kuraray Shellfitter
2021/06	Cancers Volume 13 (13)	<a href="#">The Risk Factors for Radiation Pneumonitis after Single-Fraction Carbon-Ion Radiotherapy for Lung Cancer or Metastasis</a>	Takashi Ono, Naoyoshi Yamamoto, Akihiro Nomoto, Mio Nakajima, Yuma Iwai, Yuka Isozaki, Goro Kasuya, Hitoshi Ishikawa, Kenji Nemoto and Hiroshi Tsuji	Lung	Carbon Ion Radiotherapy	<b>Moldcare</b> or Kuraray Shellfitter thermoplastic
2021/07	Journal of Radiation Research, Volume 62, Issue 4	<a href="#">Dosimetric impact of rotational setup errors in volumetric modulated arc therapy for postoperative cervical cancer</a>	Katsutomo Tsujii, Yoshihiro Ueda, Masaru Isono, Masayoshi Miyazaki, Teruki Teshima, Masahiko Koizumi	Cervical	IMRT, VMAT	<b>Moldcare</b>
2021/09	Cancers Volume 13 (19)	<a href="#">Image-Guided Liver Stereotactic Body Radiotherapy Using VMAT and Real-Time Adaptive Tumor Gating: Evaluation of the Efficacy and Toxicity for Hepatocellular Carcinoma</a>	Marie Cantaloube, Florence Castan, Morgane Creoff, Jessica Prunaretty, Karl Bordeau, Morgan Michalec, Eric Assenat, Boris Guiu, Georges-Philippe Pageaux, Marc Ychou, Norbert Aillères, Pascal Fenoglioletto, David Azria and Olivier Riou	Liver	Image-Guided Stereotactic Body Radiotherapy, VMAT	<b>Moldcare</b>
2021/10	Annals of Surgical Oncology 2022, 29 (1)	<a href="#">Carbon Ion Radiotherapy for Locally Recurrent Rectal Cancer of Patients with Prior Pelvic Irradiation</a>	Shigeru Yamada, Hirotohi Takiyama, Yuka Isozaki, Makoto Shinoto, Daniel K. Ebner, Masashi Koto, Hiroshi Tsuji, Hideaki Miyauchi, Mitsugu Sekimoto, Hideki Ueno, Michio Itabashi, Masataka Ikeda, Hisahiro Matsubara and for the Working Group on Locally Recurrent Rectal Cancer	Rectal	Carbon Ion Radiotherapy	<b>Moldcare</b> + Kuraray Shellfitter low-temperature thermoplastic shell
2021/11	Advances in Radiation Oncology Volume 6, Issue 6	<a href="#">Evaluation of Threshold Dose of Damaged Hepatic Tissue After Carbon-Ion Radiation Therapy Using Gd-EOB-DTPA-Enhanced Magnetic Resonance Imaging</a>	Masashi EbaraMD, Kei Shibuya MD PhD, Hirofumi ShimadaPhD, Motohiro Kawashima PhD, Hiromi HirasawaMD PhD, Ayako Taketomi-Takahashi MD PhD, Tatsuya Ohno MD PhD, YoshitoTsushima MD PhD, Giorgia Meschini, Alessandro Vai, ChiaraPaganelli, Silvia Molinelli, DavideMaestri, Giulia Fontana, Andrea Pella, Viviana Vitolo, Francesca Valvo, Mario Ciocca, Guido Baroni	Hepatic	Carbon Ion Radiotherapy	<b>Moldcare</b> + Kuraray Shellfitter thermoplastic shells
2022/02	Zeitschrift für Medizinische Physik Volume 32, Issue 1	<a href="#">Investigating the use of virtual 4DCT from 4DMRI in gated carbon ion radiation therapy of abdominal tumors</a>		Abnominal	Carbon Ion Radiotherapy	<b>Moldcare</b> + Klarity non-perforated body thermoplastic masks