

<Moldcare Research Paper List> Head & Neck (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
2008/02	International Journal of Radiation Oncology Biology Physics Volume 70, Issue 2	L-[METHYL-11C] Methionine Positron Emission Tomography for Target Delineation in Malignant Gliomas: Impact on Results of Carbon Ion Radiotherapy	Pawinee Mahasittiwat, Jun-etsu Mizoe, Azusa Hasegawa, Hiroyuki Ishikawa, Kyosan Yoshikawa, Hideyuki Mizuno, Takeshi Yanagi, Ryou Takagi, Pittayapoom Pattaranutaporn, Hirohiko Tsujii	Brain	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter low-temperature thermoplastic shell
2010/10	Radiation Oncology 5	Carbon ion radiotherapy for basal cell adenocarcinoma of the head and neck: preliminary report of six cases and review of the literature	Keiichi Jingu, Azusa Hasegawa, Jun-Etsu Mizo, Hiroki Bessho, Takamichi Morikawa, Hiroshi Tsuji, Hirohiko Tsujii & Tadashi Kamada	Tongue, Ethmoid Sinus, Temporal Skin, Ear and Buccal	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter low-temperature thermoplastic shell
2011/06	International Journal of Radiation Oncology Biology Physics Volume 83, Issue 1	Experience With Carbon Ion Radiotherapy for WHO Grade2 Diffuse Astrocytomas	Azusa Hasegawa, Jun-Etsu Mizoe, Hirohiko Tsujii, Tadashi Kamada, Keiichi Jingu, Yasuo Iwadata, Youichi Nakazato, Masao Matsutani, Kintomo Takakura, Organizing Committee of the Central Nervous System Tumor Working Group	Brain	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter low-temperature thermoplastic shell
2012/04	International Journal of Radiation Oncology Biology Physics Volume 82, Issue 5	Carbon Ion Radiation Therapy Improves the Prognosis of Unresectable Adult Bone and Soft-Tissue Sarcoma of the Head and Neck	Keiichi Jingu, Hirohiko Tsujii, Jun-Etsu Mizoe, Azusa Hasegawa, Hiroki Bessho, Ryo Takagi, Takamichi Morikawa, Morio Tonogi, Hiroshi Tsuji, Tadashi Kamada, Shogo Yamada, Organizing Committee of the Working Group for Head-and-Neck Cancer	Head & Neck	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter low-temperature thermoplastic shell
2014/04	Radiation Oncology 9, 92	Effects of the dose-volume relationship on and risk factors for maxillary osteoradionecrosis after carbon ion radiotherapy	Go Sasahara, Masashi Koto, Hiroaki Ikawa, Azusa Hasegawa, Ryo Takagi, Yoshitaka Okamoto & Tadashi Kamada	Head & Neck	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter low-temperature thermoplastic shell
2014/04	Radiation Oncology 9	Effects of the dose-volume relationship on and risk factors for maxillary osteoradionecrosis after carbon ion radiotherapy	Go Sasahara, Masashi Koto, Hiroaki Ikawa, Azusa Hasegawa, Ryo Takagi, Yoshitaka Okamoto & Tadashi Kamada	Head & Neck	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter thermoplastic mask
2014/10	Radiotherapy and Oncology 113 (1)	Feasibility of carbon ion radiotherapy for locally advanced sinonasal adenocarcinoma	Masashi Koto, Azusa Hasegawa, Ryo Takagi, Go Sasahara, Hiroaki Ikawa, Jun-etsu Mizoe, Keiichi Jingu, Hirohiko Tsujii, Tadashi, Kamada, Yoshitaka Okamoto, Organizing Committee for the Working Group for Head-and-Neck Cancer	Sinonasal	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter low-temperature thermoplastic shell
2015/10	PLOS ONE	Prediction of Acute Radiation Mucositis using an Oral Mucosal Dose Surface Model in Carbon Ion Radiotherapy for Head and Neck Tumors	Atsushi Musha, Hirofumi Shimada, Katsuyuki Shirai, Jun-ichi Saitoh, Satoshi Yokoo, Kazuaki Chikamatsu, Tatsuya Ohno, Takashi Nakano	Head & Neck	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter thermoplastic shell
2016/10	Anticancer Research October 2016, 36 (10)	Radiation-induced Parotid Gland Atrophy in Patients with Head and Neck Cancer After Carbon-ion Radiotherapy	Takamichi Morikawa, Masashi Koto, Azusa Hasegawa, Ryo Takagi, Akira Fujikawa, Hiroshi Tsuji, Takahiko Shibahara and Tadashi Kamada	Head & Neck	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter low-temperature thermoplastic shell
2016/10	Journal of Medical Case Reports 10	Oral mucosal melanoma treated with carbon ion radiotherapy: a case report	Atsushi Musha, Jun-ichi Saitoh, Katsuyuki Shirai, Satoshi Yokoo, Tatsuya Ohno & Takashi Nakano	Oral Mucosal Melanoma	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter thermoplastic shell
2019/02	Radiation Oncology 14	A step towards international prospective trials in carbon ion radiotherapy: investigation of factors influencing dose distribution in the facilities in operation based on a case of skull base chordoma	G. Vogin, A. Wambersie, M. Koto, T. Ohno, M. Uhl, P. Fossati & J. Balosso on behalf of ULICE WP2 working group	Skull	Carbon Ion Radiotherapy	Japan - Moldcare + 3mm non-perf thermoplastic mask+vac Bag for body, Germany- 3pt mask+ standard head support+dental splint
2019/07	Radiotherapy and Oncology Volume 136	Feasibility of Re-irradiation using carbon ions for recurrent head and neck malignancies after carbon-ion radiotherapy	Kazuhiko Hayashi, Masashi Koto, Hiroaki Ikawa, Yasuhiro Hagiwara, Hiroshi Tsuji, Kazuhiko Ogawa, Tadashi Kamada	Head & Neck	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter thermoplastic mask
2019/12	Radiotherapy and Oncology Volume 141	Dosimetric parameters predictive of nasolacrimal duct obstruction after carbon-ion radiotherapy for head and neck carcinoma	Nobuteru Kubo, Yoshiki Kubota, Hidemasa Kawamura, Takahiro Oike, Makoto Sakai, Takuya Kumazawa, Yuhei Miyasaka, Shohei Okazaki, Daijiro Kobayashi, Hiro Sato, Tatsuji Mizukami, Atsushi Musha, Katsuyuki Shirai, Jun-ichi Saitoh, Satoshi Yokoo, Kazuaki Chikamatsu, Tatsuya Ohno, Takashi Nakano	Head & Neck	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter thermoplastic shells+ mouth piece
2022/03	Anticancer Research March 2022, 42 (3)	Carbon-ion Radiotherapy for Inoperable Head and Neck Bone and Soft-tissue Sarcoma: Prospective Observational Study	Atsushi Musha, Nobuteru Kubo, Hidemasa Kawamura, Naoko Okano, Hiro Sato, Kohei Okada, Naoto Osu, Hikaru Yumisaki, Akiko Adachi, Yukihiko Takayasu, Masato Shino, Osamu Nikkuni, Shota Ida, Katsuyuki Shirai, Jun-ichi Saitoh, Satoshi Yokoo, Kazuaki Chikamatsu, Tatsuya Ohno and Working Group on Head and Neck Tumors	Head & Neck	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter thermoplastic mask

<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	Results of the first prospective study of carbon ion radiotherapy for hepatocellular carcinoma with liver cirrhosis	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	Moldcare + Kuraray Shellfitter low-temperature thermoplastic shell
2005/11	International Journal of Radiation Oncology Biology Physics Volume 63, Issue 4 (Abstract)	Hypofractionated radiotherapy with carbon ion beams for prostate cancer	Hiroshi Tsuji, Takeshi Yanagi, Hitoshi Ishikawa, Tadashi Kamada, Jun-etsu Mizoe M.D., Tatsuki Kanai, Shinroku Morita, Hirohiko Tsujii, Working Group for Genitourinary Tumors	Prostate	Carbon Ion Radiotherapy	Moldcare
2006/11	International Journal of Radiation Oncology Biology Physics Volume 66, Issue 4	Risk factors of late rectal bleeding after carbon ion therapy for prostate cancer	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	Moldcare + Kuraray Shellfitter low-temperature thermoplastic shell
2010/04	Radiotherapy and Oncology 96 (2010)	Compensatory enlargement of the liver after treatment of hepatocellular carcinoma with carbon ion radiotherapy – Relation to prognosis and liver function	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	Moldcare + Kuraray Shellfitter low-temperature thermoplastic shell
2010/05	Radiotherapy and Oncology 96 (2010)	Comparison of efficacy and toxicity of short-course carbon ion radiotherapy for hepatocellular carcinoma depending on their proximity to the porta hepatis	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	Moldcare + Kuraray Shellfitter low-temperature thermoplastic shell
2012/04	International Journal of Urology Volume 19, Issue 4	Carbon-ion radiation therapy for prostate cancer	Hitoshi Ishikawa, Hiroshi Tsuji, Tadashi Kamada, Koichiro Akakura, Hiroyoshi Suzuki, Jun Shimazaki, Hirohiko Tsujii, the Working Group for Genitourinary Tumors	Prostate	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter low-temperature thermoplastic sheet
2015/05	British Journal of Radiology Vol. 88, No. 1051	Variation in patient position and impact on carbon-ion scanning beam distribution during prostate treatment	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	To be added
2016/05	International Journal of Radiation Oncology Biology Physics Volume 95, Issue 1 (Abstract)	Carbon Ion Radiation Therapy With Concurrent Gemcitabine for Patients With Locally Advanced Pancreatic Cancer	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	Moldcare
2017/01	Physica Medica Volume 33	Fiducial marker matching versus vertebral body matching: Dosimetric impact of patient positioning in carbon ion radiotherapy for primary hepatic cancer	Satoshi Abe, Yoshiki Kubota, Kei Shibuya, Yoshinori Koyama, Takanori Abe, Tatsuya Ohno, Takashi Nakano	Hepatic	Carbon Ion Radiotherapy	Moldcare (BR 3) + Kuraray shell fitter mask
2017/04	Journal of Thoracic Oncology Volume 12, Issue 4	A Dose Escalation Clinical Trial of Single-Fraction Carbon Ion Radiotherapy for Peripheral Stage I Non-Small Cell Lung Cancer	Naoyoshi Yamamoto MD, PhD, Tadaaki Miyamoto MD, PhD, Mio Nakajima MD, PhD, Masataka Karube MD, Kazuhiko Hayashi MD, PhD, Hiroshi Tsujii MD, PhD, Hirohiko Tsujii MD, PhD, Tadashi Kamada MD, PhD, Takehiko Fujisawa MD, PhD	Lung	Carbon Ion Radiotherapy	Moldcare or Kuraray Shellfitter thermoplastic mask
2017/05	Radiation Oncology 12	Prognostic analysis of radiation pneumonitis: carbon-ion radiotherapy in patients with locally advanced lung cancer	Kazuhiko Hayashi, Naoyoshi Yamamoto, Masataka Karube, Mio Nakajima, Naruhiro Matsufuji, Hiroshi Tsuji, Kazuhiko Ogawa & Tadashi Kamada	Lung	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter thermoplastic
2018/03	Cancer Science Volume 109, Issue 5	Feasibility of carbon-ion radiotherapy for re-irradiation of locoregionally recurrent, metastatic, or secondary lung tumors	Kazuhiko Hayashi, Naoyoshi Yamamoto, Masataka Karube, Mio Nakajima, Hiroshi Tsuji, Kazuhiko Ogawa, Tadashi Kamada	Lung	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter thermoplastic
2018/11	Cancer Science Volume 110, Issue 2	Clinical outcomes of carbon-ion radiotherapy for locally advanced non-small-cell lung cancer	Kazuhiko Hayashi, Naoyoshi Yamamoto, Mio Nakajima, Akihiro Nomoto, Hiroshi Tsuji, Kazuhiko Ogawa, Tadashi Kamada	Lung	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter Thermoplastic
2020/03	Clinical and Translational Radiation Oncology Volume 21	Influence of dose-averaged linear energy transfer on tumour control after carbon-ion radiation therapy for pancreatic cancer	Yasuhiro Hagiwara, Tapesh Bhattacharyya, Naruhiro Matsufuji, Yuka Isozaki, Hirotohi Takiyama, Kenji Nemoto, Hiroshi Tsuji, Shigeru Yamada	Pancreatic	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter thermoplastic shells
2020/03	Advances in Radiation Oncology Volume 5, Issue 2	Long-Term Results of High-Dose 2-Fraction Carbon Ion Radiation Therapy for Hepatocellular Carcinoma	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	Moldcare + Kuraray Shellfitter low-temperature thermoplastic sheet
2020/03	Radiotherapy and Oncology Volume 144	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	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	Moldcare + Sanyo Polymer Industrial Shellfitter body shell
2020/03	Cancers Volume 12 (3)	Kinetics of Prostate-Specific Antigen after Carbon Ion Radiotherapy for Prostate Cancer	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	Moldcare + Kuraray Shellfitter low-temperature thermoplastic shell
2020/12	Physica Medica Volume 80	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	Takayuki Kanai, Athena Paz, Wataru Furuichi, Ching-Sheng Liu, Pengbo He, Shinichiro Mori	Lung	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter low-temperature thermoplastic shells
2021/01	Clinical and Translational Radiation Oncology Volume 26	Efficacy and feasibility of re-irradiation using carbon ions for pancreatic cancer that recurs after carbon-ion radiotherapy	Yasuhiro Hagiwara, Shigeru Yamada, Yuka Isozaki, Hirotohi Takiyama, Makoto Shinoto, Shohei Kawashiro, Tapesh Bhattacharyya, Kenji Nemoto, Hiroshi Tsuji	Pancreatic	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter thermoplastic shells
2021/02	Japanese Journal of Radiology Volume 39	Carbon-ion radiotherapy for octogenarians with locally advanced non-small-cell lung cancer	Kazuhiko Hayashi, Naoyoshi Yamamoto, Mio Nakajima, Akihiro Nomoto, Hitoshi Ishikawa, Kazuhiko Ogawa, Hiroshi Tsuji	Lung	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter
2021/06	Cancers Volume 13 (13)	The Risk Factors for Radiation Pneumonitis after Single-Fraction Carbon-Ion Radiotherapy for Lung Cancer or Metastasis	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	Moldcare or Kuraray Shellfitter thermoplastic
2021/10	Annals of Surgical Oncology 2022, 29 (1)	Carbon Ion Radiotherapy for Locally Recurrent Rectal Cancer of Patients with Prior Pelvic Irradiation	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	Moldcare + Kuraray Shellfitter low-temperature thermoplastic shell
2021/11	Advances in Radiation Oncology Volume 6, Issue 6	Evaluation of Threshold Dose of Damaged Hepatic Tissue After Carbon-Ion Radiation Therapy Using Gd-EOB-DTPA-Enhanced Magnetic Resonance Imaging	Masashi Ebara MD, Kei Shibuya MD PhD, Hirofumi Shimada PhD, Motohiro Kawashima PhD, Hiromi Hirasawa MD PhD, Ayako Taketomi-Takahashi MD PhD, Tatsuya Ohno MD PhD, Yoshito Tsushima MD PhD, Giorgia Meschini, Alessandro Vai, Chiara Paganelli, Silvia Molinelli, Davide Maestri, Giulia Fontana, Andrea Pella, Viviana Vitolo, Francesca Valvo, Mario Ciocca, Guido Baroni	Hepatic	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter thermoplastic shells
2022/02	Zeitschrift für Medizinische Physik Volume 32, Issue 1	Investigating the use of virtual 4DCT from 4DMRI in gated carbon ion radiation therapy of abdominal tumors		Abdominal	Carbon Ion Radiotherapy	Moldcare + Klarity non-perforated body thermoplastic masks

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

<Moldcare Research Paper List>
Others

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
2011/10	Cancers 2011, 3(4)	<u>Carbon Ion Radiotherapy at the Gunma University Heavy Ion Medical Center: New Facility Set-up</u>	Tatsuya Ohno, Tatsuki Kanai, Satoru Yamada, Ken Yusa, Mutsumi Tashiro, Hirofumi Shimada, Kota Torikai, Yukari Yoshida, Yoko Kitada, Hiroyuki Katoh, Takayoshi Ishii and Takashi Nakano	General	Carbon Ion Radiotherapy	Moldcare + 3mm thermoplastic mask
2011/10	Radiotherapy and Oncology 98 (2011)	<u>Malignant mucosal melanoma treated with carbon ion radiotherapy with concurrent chemotherapy: Prognostic value of pretreatment apparent diffusion coefficient (ADC)</u>	Keiichi Jingu, Riwa Kishimoto, Jun-Etsu Mizoe, Azusa Hasegawa, Hiroki Bessho, Hiroshi Tsuji, Tadashi Kamada, Shogo Yamada, Hirohiko Tsujii	Melanoma	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter low-temperature thermoplastic
2014/03	Journal of Radiation Research, Volume 55, Issue 2	<u>Clinical trial of carbon ion radiotherapy for gynecological melanoma</u>	Kumiko Karasawa, Masaru Wakatsuki, Shingo Kato, Hiroki Kiyohara, Tadashi Kamada, the Working Group for Gynecological Tumors	Melanoma	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter fixation body shell
2017/11	Radiation Oncology 12	<u>Predictive factors of acute skin reactions to carbon ion radiotherapy for the treatment of malignant bone and soft tissue tumors</u>	Yosuke Takakusagi, Jun-ichi Saitoh, Hiroki Kiyohara, Takahiro Oike, Shin-ei Noda, Tatsuya Ohno, Takashi Nakano	Bone Soft Tissue	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter (low-temperature thermoplastic)