

<MOLDCARE Research Paper List>
Breast (general)

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
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	Hirotoishi 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	Research Center Hospital for Charged Particle Therapy, National Institute of Radiological Sciences, Chiba,Japan; Department of Medicine and Clinical Oncology, Chiba University Graduate School of Medicine, Chiba,Japan	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., Tatsuaki Kanai, Shinroku Morita, Hirohiko Tsujii, Working Group for Genitourinary Tumors	Research Center for Charged Particle Therapy, National Institute of Radiological Sciences, Chiba, Japan	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 M.D., Ph.D. *, Hiroshi Tsuji M.D., Ph.D. *, Tadashi Kamada M.D., Ph.D. *, Naoki Hirasawa M.D. *, Takeshi Yanagi M.D., Ph.D. *, Jun-Etsu Mizoe M.D., Ph.D. *, Koichiro Akakura M.D., Ph.D. †, Hiroyoshi Suzuki M.D., Ph.D. †, Jun Shimazaki M.D., Ph.D. †, Hirohiko Tsujii M.D., Ph.D. *	* Research Center for Charged Particle Therapy, National Institute of Radiological Sciences, Chiba, Japan † Department of Urology, Graduate School of Medicine, Chiba University, Chiba, Japan	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 hepatocellularcarcinoma with carbon ion radiotherapy – Relation to prognosis and liver function	Hiroshi Imada a,b, *, Hirotoishi Kato a, Shigeo Yasuda a, Shigeru Yamada a, Takeshi Yanagi a, Ryusuke Hara a, Riwa Kishimoto a, Susumu Kandatsu a, Shinichi Minohara a, Jun-etsu Mizoe a, Tadashi Kamada a, Osamu Yokosuka b, Hirohiko Tsujii a	Research Center for Charged Particle Therapy, National Institute of Radiological Sciences, Chiba, Japan; b Department of Medicine and Clinical Oncology, Graduate School of Medicine, Chiba University, Chiba, Japan	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 radiotherapyfor hepatocellular carcinoma depending on their proximity to the porta hepatis	Hiroshi Imada a,b, *, Hirotoishi Kato a, Shigeo Yasuda a, Shigeru Yamada a, Takeshi Yanagi a, Riwa Kishimoto a, Susumu Kandatsu a, Jun-etsu Mizoe a, Tadashi Kamada a, Osamu Yokosuka b, Hirohiko Tsujii a	a National Institute of Radiological Sciences, Chiba, Japan; b Department of Medicine and Clinical Oncology, Chiba University, Japan	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, 1,2 Hiroshi Tsuji, 2 Tadashi Kamada, 2 Koichiro Akakura,2 Hiroyoshi Suzuki, 2Jun Shimazaki, 2 Hirohiko Tsujii 2 and the Working Group for Genitourinary Tumors	1Department of Radiation Oncology, Tsukuba University Faculty of Medicine, Tsukuba, Ibaraki, and 2Research Center for ChargedParticle Therapy, National Institute of Radiological Sciences, Inage, Chiba, Japan	Prostate	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter low-temperature thermoplastic sheet
2015/04	Radiation Oncology 10	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	Masahiko Aoki1, Mariko Sato1, Katsumi Hirose1, Hiroyoshi Akimoto1, Hideo Kawaguchi1, Yoshiomi Hatayama2, Shuichi Onoi and Yoshihiro Takai1*	1Department of Radiology and Radiation Oncology, Graduate School of Medicine, Hirosaki University, 5 Zaifu-cho, Hirosaki, Aomori 036-8562, Japan. 2Department of Radiation Oncology, Southern Tohoku Proton Therapy Center, 7-172 Yatsuyamada, Koriyama, Fukushima 963-8052, Japan.	Lung	Mitsubishi Electric EXL-20TP / SBRT	Moldcare
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 1, T Inaniwa 1, K Miki 1, K Tanimoto 1, M Tajiri 1, D Kuroiwa 1, M Nakao 1, Y Shiraishi 1, K Shibayama 1, H Tsuji 1	1Research Center for Charged Particle Therapy, National Institute of Radiological Sciences, Chiba, Japan.	Prostate	Carbon Ion Radiotherapy	Moldcare
2015/10	Anticancer Research October 2015, 35 (10)	Carbon-ion Radiotherapy for Prostate Cancer: Analysis of Morbidities and Change in Health-related Quality of Life	HITOSHI ISHIKAWA1*, HIROYUKI KATOH2, TAKUYA KAMINUMA2, HIDEMASA KAWAMURA2, KAZUTO ITO3, HIROSHI MATSUI3, JUNKO HIRATO4, NOBUAKI SHIMIZU5, YUTAKA TAKEZAWA6, HIROSHI TSUIJ7, KAZUHIRO SUZUKI2, TATSUYA OHNO2, TAKASHI NAKANO2, GROUP FOR GENITOURINARY TUMORS AT GUNMA HEAVY ION MEDICAL CENTER	1Department of Radiation Oncology, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan 2Heavy Ion Medical Research Center, Gunma University, Gunma, Japan 3Department of Urology, Gunma University Graduate School of Medicine, Gunma, Japan 4Department of Pathology, Gunma University Graduate School of Medicine, Gunma, Japan 5Department of Urology, Gunma Cancer Center, Gunma, Japan 6Department of Urology, Isesaki Municipal Hospital, Isesaki, Gunma, Japan 7Research Center Hospital for Charged Particle Therapy, National Institute of Radiological Sciences, Chiba, Japan		Moldcare	
2015/10	Radiation Oncology 10	Feasibility of accelerated partial breast irradiation with volumetric-modulated arc therapy in elderly and frail patients	Olivier Riou1*, Pascal Fenoglietto1, Céline Bourgier1, Olivier Lauche1, Fatiha Boulbair2, Marie Charissoux1, Angélique Ducteil1, Norbert Aillères1, Claire Lemanski1 and David Azria1	1Radiation Oncology Department, Institut régional du Cancer de Montpellier (ICM), Val d'Aurelle, 208 avenue des Apothicaires, 34298, Montpellier cedex 5, France. 2Radiotherapy Department, Mulhouse Hospital, Mulhouse, France.	Breast	IMRT, VMAT	Moldcare + arm and knee support
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 MD * † ‡, Shigeru Yamada MD, PhD *, Kotaro Terashima MD, PhD ‡, Shigeo Yasuda MD, PhD *, Yoshiyuki Shioyama MD, PhD †, Hiroshi Honda MD, PhD ‡, Tadashi Kamada MD, PhD *, Hirohiko Tsujii MD, PhD *, Hiromitsu Saisho MD, PhD §the Working Group for Pancreas Cancer	* Hospital of Research Center for Charged Particle Therapy, National Institute of Radiological Sciences, Chiba, Japan † Ion Beam Therapy Center, SAGA HIMAT Foundation, Tosu, Japan ‡ Department of Clinical Radiology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan § Department of Internal Medicine and Clinical Oncology, Kaken Hospital, Chemotherapy Research Institute, Chiba, Japan	Pancreatic	Carbon Ion Radiotherapy	Moldcare
2016/08	World Journal of Radiology Vol. 8 (8)	Helical tomotherapy and volumetric modulated arc therapy: New therapeutic arms in the breast cancer radiotherapy	Olivier Lauche 1,2,3, Youlia M Kirova 1,2,3, Pascal Fenoglietto 1,2,3, Emilie Costa 1,2,3, Claire Lemanski 1,2,3, Celine Bourgier 1,2,3, Olivier Riou 1,2,3, David Tiberi 1,2,3, Francois Campana 1,2,3, Alain Fourquet 1,2,3, David Azria 1,2,3	1Olivier Lauche, Youlia M Kirova, Emilie Costa, Francois Campana, Alain Fourquet, Department of Radiation Oncology, Institut Curie, 75005 Paris, France 2Pascal Fenoglietto, Claire Lemanski, Celine Bourgier, Olivier Riou, David Azria, Departement of Radiation Oncology, Institut du Cancer de Montpellier, 34298 Montpellier cedex 5, France 3David Tiberi, Department of Radiation Oncology, Centre Hospitalier de l'Université de Montréal Hôpital Notre Dame, Montreal H2L 4M1, Canada	Breast	HT (helical tomotherapy) and VMAT (volumetric modulated arc therapy)	Moldcare used with VMAT, Cervical thermoplastic mask used with HT
2017/01	Physica Medica Volume 33	Fiducial marker matching versus vertebral body matching: Dosimetricimpact of patient positioning in carbon ion radiotherapy for primary hepatic cancer	Satoshi Abe a, Yoshiki Kubota b, Kei Shibuya c, Yoshinori Koyama c, Takanori Abe c, Tatsuya Ohno b, Takashi Nakano b c	a Department of Radiology, Gunma University Hospital, 3-39-15 Showa-machi, Maebashi, Gunma 371-8511, Japan b Gunma University Heavy Ion Medical Center, 3-39-22 Showa-machi, Maebashi, Gunma 371-8511, Japan c Department of Radiation Oncology, Gunma University Graduate School of Medicine, 3-39-22 Showa-machi, Maebashi, Gunma 371-8511, Japan	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 a, Tadaaki Miyamoto MD, PhD a, Mio Nakajima MD, PhD a, Masataka Karube MD a, Kazuhiko Hayashi MD, PhD a, Hiroshi Tsuji MD, PhD a, Hirohiko Tsujii MD, PhD a, Tadashi Kamada MD, PhD a, Takehiko Fujisawa MD, PhD b	a National Institute of Radiological Sciences, Chiba, Japan b Chiba Foundation for Health Promotion and Disease Prevention, Chiba, Japan	Lung	Carbon Ion Radiotherapy	Moldcare or Kuraray Shellfitter thermoplastic mask
2017/04	Reports of Practical Oncology and Radiotherapy 22 (2)	SBRT planning for liver metastases: A focus on immobilization, motion management and planning imaging techniques	Olivier Riou a,*, Carmen Llacer Moscardo a, Pascal Fenoglietto a, Emmanuel Deshayes a, Raphaël Tetreau a, Jessica Molinier a, Alexis Lenglet a, Eric Assenat a,b, Marc Ychou a,b, Boris Guui b, Norbert Aillères a, Ludovic Bedos a, David Azria a	aInstitut Régional du Cancer de Montpellier, ICM-Val d' Aurelle, Rue de la Croix Verte, Montpellier, France bCHU Saint Eloi, 80 Avenue Augustin Fliche, 34090 Montpellier, France	Liver	CyberKnife®, Linac / SBRT, IMRT, VMAT	Moldcare
2017/05	Radiation Oncology 12	Prognostic analysis of radiation pneumonitis: carbon-ion radiotherapy in patients with locally advanced lung cancer	Kazuhiro Hayashi1*, Naoyoshi Yamamoto1, Masataka Karube2, Mio Nakajima1, Naruhiro Matsufuji3, Hiroshi Tsuji1, Kazuhiko Ogawa4 and Tadashi Kamada1	1Hospital of the National Institute of Radiological Sciences, National Institutes for Quantum and Radiological Sciences and Technology, 4-9-1 Anagawa, Inage Ward, Chiba City, Chiba Prefecture, Japan. 2Department of Radiotherapy, Mitsui Memorial Hospital, Tokyo, Japan. 3Department of Accelerator and Medical Physics, Research Center for Particle Therapy, National Institute of Radiological Sciences, Chiba, Japan. 4Department of Radiation Oncology, Osaka University Graduate School of Medicine, Osaka, Japan.	Lung	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter thermoplastic
2018/02	Anticancer Research Vol. 38 (2)	A Phase I Study of Hypofractionated Carbon-ion Radiotherapy for Stage III Non-small Cell Lung Cancer	JUN-ICHI SAITOH1, KATSUYUKI SHIRAI1, TAKANORI ABE1, NOBUTERU KUBO1, TAKESHI EBARA2, TATSUYA OHNO1, KOICHI MINATO3, RYUSEI SAITO4, MASANOBU YAMADAS, TAKASHI NAKANO1 and THE WORKING GROUP OF THE LUNG TUMOR	1Gunma University Heavy Ion Medical Center, Gunma, Japan; 2Department of Radiation Oncology, Gunma Prefectural Cancer Center, Ota, Japan; 3Department of Respiratory Medicine, Gunma Prefectural Cancer Center, Ota, Japan; 4Department of Respiratory Medicine, National Hospital Organization Shibukawa Medical Center, Shibukawa, Japan; 5Department of Medicine and Molecular Science, Gunma University Graduate School of Medicine, Maebashi, Japan	Lung	Hypofractionated Carbon Ion Radiotherapy	Moldcare + Sanyo Polymer Industrial Shellfitter thermoplastic shell
2018/03	Cancer Science Volume 109, Issue 5	Feasibility of carbon-ion radiotherapy for re-irradiation of locoregionally recurrent, metastatic, or secondary lung tumors	Kazuhiro Hayashi 1 Naoyoshi Yamamoto 1 Masataka Karube 2 Mio Nakajima 1 Hiroshi Tsuji 1 Kazuhiko Ogawa3 Tadashi Kamada 1	1 Hospital of the National Institute ofRadiological Sciences, National Institutes forQuantum and Radiological Sciences andTechnology, Chiba City, Chiba, Japan2 Mitsui Memorial Hospital, Chiyoda, Tokyo,Japan3 Department of Radiation Oncology, OsakaUniversity Graduate School of Medicine,Suita, Osaka, Japan	Lung	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter thermoplastic

2018/09	Cancers 2018, 10(9), 338	Phase I Study of Carbon Ion Radiotherapy and Image-Guided Brachytherapy for Locally Advanced Cervical Cancer	Tatsuya Ohno 1,*,Shin-ei Noda 1, † ,Kazutoshi Murata 1ORCID,Yuya Yoshimoto 1,Noriyuki Okonogi 1, ‡ ORCID,Ken Ando Ken Ando 1,§,Tomoaki Tamaki 1, ,Shingo Kato 2,Takashi Hirakawa 3,Tatsuya Kanuma 4,Takashi Minegishi 3, ¶,Takashi Nakano 1 andOn behalf of the Working Group for Gynecologic Cancer	1 Gunma University Heavy Ion Medical Center, Gunma University, 3-39-22 Showa, Maebashi, Gunma 371-8511, Japan 2 Department of Radiation Oncology, Saitama Medical University International Medical Center, 1397-1 Yamane, Hidaka, Saitama 350-1298, Japan 3 Department of Obstetrics and Gynecology, Gunma University Graduate School of Medicine, 3-39-22 Showa, Maebashi, Gunma 371-8511, Japan 4 Division of Gynecology, Gunma Prefectural Cancer Center, 617-1 Takahayashi-nishi, Ota, Gunma 373-0828, Japan * Author to whom correspondence should be addressed. † Current address: Department of Radiation Oncology, Saitama Medical University International Medical Center, 1397-1 Yamane, Hidaka, Saitama 350-1298, Japan. ‡ Current address: National Institute of Radiological Sciences Hospital, National Institute for Quantum and Radiological Science and Technology, 491 Anagawa, Inage, Chiba 263-8555, Japan. § Current address: Division of Radiation Oncology, Gunma Prefectural Cancer Center, 617-1 Takahayashi-nishi, Ota, Gunma 373-0828, Japan. Current address: Department of Radiation Oncology, Fukushima Medical University, 1 Hikarigaoka, Fukushima 960-1247, Japan	Cervical	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter thermoplastic
2018/10	ResearchGate	Comparison of interfractional setup reproducibility between two types of patient immobilization devices in image-guided radiation therapy for prostate cancer	Shoki Inui, Yoshihiro Ueda, Shingo Ohira, Masaru Isono, Akira Masaoka, Seiya Murata, Yuya Nitta, Tsukasa Karino, Masayoshi Miyazaki, Teruki Teshima	Department of Radiation Oncology, Osaka International Cancer Institute	Prostate	IMRT, VMAT, IGRT	Moldcare BR
2018/11	Cancer Science Volume 110, Issue 1	Single fraction carbon ion radiotherapy for colorectal cancer: liver metastasis: A dose escalation study	Hirokazu Makishima 1, Shigeo Yasuda 1, Yuka Isozaki 1, Goro Kasuya 1, Naomi Okada 1, Masaru Miyazaki 2, Osama Mohamad 1,3, Naruhiro Matsufuji 1, Shigeru Yamada 1, Hiroshi Tsuji 1,*,†, Tadashi Kamada 1; the Liver Cancer Working Group	1National Institute of Radiological Sciences Hospital, National Institutes for Quantum and Radiological Sciences and Technology, Chiba, Japan 2Mita Hospital, International University of Health and Welfare, Tokyo, Japan 3University of Texas Southwestern Medical center, Dallas, Texas	Rectal	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	Kazuhiro Hayashi1,2 Naoyoshi Yamamoto1 Mio Nakajima1 Akihiro Nomoto1 Hiroshi Tsuji1 Kazuhiko Ogawa2 Tadashi Kamada1	1Hospital of the National Institute ofRadiological Sciences, National Institutesfor Quantum and Radiological Sciences andTechnology, Chiba, Japan2 Department of Radiation Oncology, OsakaUniversity Graduate School of Medicine,Osaka, Japan	Lung	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter Thermoplastic
2019/09	Cancer Medicine Volume 8, Issue 15	Hypofractionated carbon-ion radiotherapy for stage I peripheral nonsmall cell lung cancer (GUNMA0701): Prospective phase II study	un-ichi Saitoh1,2 Katsuyuki Shirai1,3 Tatsuji Mizukami1,2 Takanori Abe1 Takeshi Ebara4,5 Tatsuya Ohno1 Koichi Minato6 Ryusei Saito7 Masanobu Yamada 8 Takashi Nakano 1	Gunma University Heavy Ion MedicalCenter, Maebashi, Gunma, Japan2 Department of Radiation Oncology,Faculty of Medicine, University of Toyama,Toyama, Toyama, Japan3 Department of Radiology, SaitamaMedical Center, Jichi Medical 1University,Saitama, Japan4 Department of RadiationOncology, Gunma Prefectural CancerCenter, Ota, Gunma, Japan5 Department of Radiation Oncology, Schoolof Medicine, Kyorin University, Mitaka,Tokyo, Japan6 Department of RespiratoryMedicine, Gunma Prefectural CancerCenter, Ota, Gunma, Japan7 Department of RespiratoryMedicine, National Hospital OrganizationShibukawa Medical Center, Shibukawa,Gunma, Japan8 Department of Medicine and MolecularScience, Gunma University GraduateSchool of Medicine, Maebashi, Gunma,Japan	Lung	Hypofractionated Carbon Ion Radiotherapy	Moldcare + Sanyo Polymer Industrial Shellfitter thermoplastic shell
2020/03	Clinical and Translational Radiation Oncology Volume 21	Influence of dose-averaged linear energy transfer on tumour controlafter carbon-ion radiation therapy for pancreatic cancer	Yasuhiro Hagiwara 1 2, Tapes Bhattacharyya 1, Naruhiro Matsufuji 3, Yuka Isozaki 1, Hirotoshi Takiyama 1, Kenji Nemoto 2, Hiroshi Tsuji 1, Shigeru Yamada 1 4	1Hospital of the National Institute of Radiological Sciences, National Institutes for Quantum and Radiological Sciences and Technology, Anagawa 4-9-1, Inage-ku, 263-8555 Chiba, Japan. 2Department of Radiation Oncology, Faculty of Medicine, Yamagata University, Iida-nishi 2-2-2, Yamagata-shi, 990-9585 Yamagata, Japan. 3Department of Accelerator and Medical Physics, Research Center for Particle Therapy, National Institute of Radiological Sciences, Anagawa 4-9-1, Inage-ku, 263-8555 Chiba, Japan. 4Department of Charged Particle Therapy Research, National Institute of Radiological Sciences, National Institutes for Quantum and Radiological Science and Technology, Anagawa 4-9-1, Inage-ku, 263-8555 Chiba, Japan.	Pancreatic	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter theemoplastic shells
2020/03	Advances in Radiation Oncology Volume 5, Issue 2	Long-Term Results of High-Dose 2-FractionCarbon Ion Radiation Therapy for Hepatocellular Carcinoma	Shigeo Yasuda MD, PhD a b, Hirotoshi Kato MD, PhD c, Hiroshi Imada MD, PhD d, Yuka Isozaki MD, PhD a, Goro Kasuya MD, PhD a, Hirokazu Makishima MD, PhD a, Hiroshi Tsuji MD, PhD a, Daniel K. Ebner BS e, Shigeru Yamada MD, PhD a, Tadashi Kamada MD, PhD a f,Hirohiko Tsujii MD, PhD a, Naoya Kato MD, PhD g, Masaru Miyazaki MD, PhD h Working Group for Liver Tumor	a Hospital of the National Institute of Radiological Sciences, National Institutes for Quantum and Radiological Science and Technology, Chiba, Japan b Department of Radiology, Chiba Rosai Hospital, Chiba, Japan c Kato Medical Clinic, Tokyo, Japan d Department of Internal Medicine, Shiogane Orthopedic Hospital, Chiba, Japan e Harvard TH Chan School of Public Health, Boston, Massachusetts f Ion-beam Radiation Oncology Center in Kanagawa, Kanagawa Cancer Center, Yokohama, Japan g Department of Gastroenterology and Hepatology, Graduate School of Medicine, Chiba University, Chiba, Japan h International University of Health and Welfare, Mita Hospital, Tokyo, Japan	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 a b, Yoshiki Kubota c, Nobuteru Kubo c, Tatsuji Mizukami c, Makoto Sakai c, Hidemasa Kawamura c, Daisuke Irie c, Naoko Okano c, Kazuhisa Tsuda d, Akihiko Matsumura c, Jun-ichi Saitoh e, Takashi Nakano c, Tatsuya Ohno c	a Graduate School of Medicine, Gunma University, Japan b Department of Breast Radiotherapy, Harbin Medical University Cancer Hospital, China c Gunma University Heavy Ion Medical Center, Japan d Department of Radiology, Gunma University Hospital, Japan e Department of Radiation Oncology, Faculty of Medicine, University of Toyama, Japan	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 1 2, Takahiro Oike 1 3, Hidemasa Kawamura 1 3, Masahiro Kawahara 4, Nobuteru Kubo 1 3, Hiro Sato 1 3, Yuhei Miyasaka 1, Hiroyuki Katoh 1 5, Hitoshi Ishikawa 1 6, Hiroshi Matsui 3 7, Yoshiyuki Miyazawa 7, Kazuto Ito 7 8, Kazuhiro Suzuki 3 7, Soehartati Gondhowiardjo 2, Takashi Nakano 1 9, Tatsuya Ohno 1 3	1Department of Radiation Oncology, Gunma University Graduate School of Medicine, 3-39-22, Showa-machi, Maebashi, Gunma 371-8511, Japan. 2Department of Radiation Oncology, Faculty of Medicine Universitas Indonesia - dr. Cipto Mangunkusumo Hospital, Jl. P. Diponegoro no. 71, Jakarta 10430, Indonesia. 3Gunma University Heavy Ion Medical Center, 3-39-22, Showa-machi, Maebashi, Gunma 371-8511, Japan. 4Department of Radiation Oncology, Saku Central Hospital Advanced Care Center, 3400-28, Nakagomi, Saku, Nagano 385-0051, Japan. 5Department of Radiation Oncology, Kanagawa Cancer Center, 2-3-2, Nakao, Asahi-ku, Yokohama, Kanagawa 241-8515, Japan. 6Department of Radiation Oncology, Faculty of Medicine, University of Tsukuba, 1-1-1, Tennodai, Tsukuba, Ibaraki 305-8575, Japan. 7Department of Urology, Gunma University Graduate School of Medicine, 3-39-22, Showa-machi, Maebashi, Gunma 371-8511, Japan. 8Institute for Preventive Medicine, Kurosawa Hospital, 187, Yanaka-machi, Takasaki, Gunma 370-1203, Japan. 9National Institutes for Quantum and Radiological Science and Technology, 4-9-1, Anagawa, Inage-ku, Chiba, Chiba 263-8555, Japan.	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 a b, Athena Paz a, Wataru Furuichi c, Ching-Sheng Liu a d, Pengbo He a e, Shinichiro Mori a	a Research Center for Charged Particle Therapy, National Institute of Radiological Sciences, 4-9-1, Anagawa, Inage-ku, Chiba, Japan b Department of Radiation Oncology, Yamagata University, Faculty of Medicine, 2-2-2, Iida-nishi, Yamagata, Japan c Accelerator Engineering Corporation, 6-18-1-301, Konakadai, Inage-Ku, Chiba, Japan d Department of Oncology, Taipei Veterans General Hospital, 201, Sec. 2, ShiPai Road, Taipei, Taiwan, Republic of China e Institute of Modern Physics, Chinese Academy of Sciences, 509 Nanchang Road, Lanzhou, China	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	Yasuhito Hagiwara a b, Shigeru Yamada a c, Yuka Isozaki a, Hirotoshi Takiyama a, Makoto Shinoto a, Shohei Kawashiro b, Tapesh Bhattacharyya a, Kenji Nemoto b, Hiroshi Tsuji a	a QST Hospital, National Institutes for Quantum and Radiological Sciences and Technology, Chiba, Japan b Department of Radiation Oncology, Faculty of Medicine, Yamagata University, Yamagata, Japan c Department of Charged Particle Therapy Research, National Institute of Radiological Sciences, National Institutes for Quantum and Radiological Science and Technology, Chiba, Japan	Pacreatic	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 Hayashi1,2 · Naoyoshi Yamamoto1 · Mio Nakajima1 · Akihiro Nomoto1 · Hitoshi Ishikawa1 · Kazuhiko Ogawa2 · Hiroshi Tsuji1	1 QST Hospital, National Institutes for Quantum and Radiological Sciences and Technology, 4-9-1 Anagawa, Inage-ku, Chiba 263-8555, Japan 2 Department of Radiation Oncology, Osaka University Graduate School of Medicine, 2-2 Yamadaoka, Suita, Osaka, Japan	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 1,2,*ORCID,Naoyoshi Yamamoto 1,Akihiro Nomoto 1,Mio Nakajima 1,Yuma Iwai 1,Yuka Isozaki 1,Goro Kasuya 1,Hitoshi Ishikawa 1,Kenji Nemoto 2 andHiroshi Tsuji 1	1 Department of Radiation Oncology, QST Hospital, Chiba 263-8555, Japan 2 Department of Radiation Oncology, Faculty of Medicine, Yamagata University, 2-2-2, Iida-Nishi, Yamagata 990-9585, Japan	Lung	Carbon Ion Radiotherapy	Moldcare or Kuraray Shellfitter thermoplastic
2021/07	Journal of Radiation Research, Volume 62, Issue 4	Dosimetric impact of rotational setup errors in volumetric modulated arc therapy for postoperative cervical cancer	Katsutomo Tsujii1,2, Yoshihiro Ueda3,MasaruIsono3, Masayoshi Miyazaki3, Teruki Teshima3 and Masahiko Koizumi1,*	1Department of Medical Physics & Engineering, Osaka University Graduate School of Medicine, Suita, Osaka 565-0871, Japan 2 Varian Medical Systems, Chuo-ku, Tokyo 103-0026, Japan 3Department of Radiation Oncology, Osaka International Cancer Institute, Chuo-ku, Osaka 541-8567, Japan	Cervical	IMRT, VMAT	Moldcare
2021/09	Cancers Volume 13 (19)	Image-Guided Liver Stereotactic Body Radiotherapy UsingVMAT and Real-Time Adaptive Tumor Gating: Evaluation ofthe Efficacy and Toxicity for Hepatocellular Carcinoma	Marie Cantaloube 1,Florence Castan 2,Morgane Creoff 1,3,Jessica Prunaretty 1,Karl Bordeau 1,Morgan Michalet 1,ORCID,Eric Assenat 4,Boris Guili 5ORCID,Georges-Philippe Pageaux 6,Marc Ychou 7,Norbert Aillères 1,Pascal Fenoglietto 1,David Azria 1 andOlivier Riou 1,*ORCID	1 Montpellier Cancer Institute (ICM), University Federation of Radiation Oncology of Mediterranean Occitanie, Montpellier University, INSERM U1194 IRCM, 34298 Montpellier, France 2 Biometrics Unit ICM, Montpellier Cancer Institute, University Montpellier, 34298 Montpellier, France 3 Oncodoc, 34500 Béziers, France 4 Service d’Oncologie Médicale, CHU St Eloi, 34000 Montpellier, France 5 Imagerie Médicale St Eloi, 34000 Montpellier, France 6 Service d’Hépatogastroentérologie, CHU St Eloi, 34000 Montpellier, France 7 Medical Oncology Department, Montpellier Cancer Institute (ICM), Montpellier University, INSERM U1194 IRCM, 34298 Montpellier, France	Liver	Image-Guided Stereotactic Body Radiotherapy, VMAT	Moldcare
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 1,㉓, Hirotoshi Takiyama 1, Yuka Isozaki 1, Makoto Shinoto 1, Daniel K Ebner 1, Masashi Koto 1, Hiroshi Tsuji 1, Hideaki Miyauchi 2, Mitsugu Sekimoto 3, Hideki Ueno 4, Michio Itabashi 5, Masataka Ikeda 6, Hisahiro Matsubara 2; for the Working Group on Locally Recurrent Rectal Cancer	1QST Hospital, National Institutes for Quantum and Radiological Science and Technology, Chiba, Japan 2Graduate School of Medicine, Chiba University, Chiba, Japan 3Kansai Medical University Hospital, Osaka, Japan 4National Defense Medical College, Saitama, Japan 5Tokyo Womens Medical University, Tokyo, Japan 6Hyogo College of Medicine, Hyogo, Japan a Department of Diagnostic Radiology and Nuclear Medicine, Gunma University Graduate School of Medicine, Gunma, Japan b Department of Radiation Oncology, Gunma University Graduate School of Medicine, Gunma, Japan c Gunma University Heavy Ion Medical Center, Gunma, Japan	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 a, Kei Shibuya MD, PhD a b c, Hirofumi Shimada PhD c, Motohiro Kawashima PhD c, Hiromi Hirasawa MD, PhD a, Ayako Taketomi-Takahashi MD PhD a, Tatsuya Ohno MD, PhD b c, Yoshito Tsushima MD, PhD a	a Department of Diagnostic Radiology and Nuclear Medicine, Gunma University Graduate School of Medicine, Gunma, Japan b Department of Radiation Oncology, Gunma University Graduate School of Medicine, Gunma, Japan c Gunma University Heavy Ion Medical Center, Gunma, Japan	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	Giorgia Meschini a 1, Alessandro Vai b 1, Chiara Paganelli a, Silvia Molinelli b, Davide Maestri b, Giulia Fontana b, Andrea Pella b, Viviana Vitolo b, Francesca Valvo b, Mario Ciocca b, Guido Baroni a b	a Department of Electronics, Information and Bioengineering, Politecnico di Milano, Milano 20133, Italy b Centro Nazionale di Adroterapia Oncologica, Pavia 27100, Italy	Abnominal	Carbon Ion Radiotherapy	Moldcare + Klarity non-perforated body thermoplastic masks
2022/08	ScholarWorks Culminating Experience Projects, 207	Spinal Cord Dose Reduction Using A Jaw-Blocking VMAT Technique - A Retrospective Study of Chordoma and Chondrosarcoma Patients	Amber Wyatt	Grand Valley State University	Spinal	VMAT	Moldcare + Qfix BOS frame
2022/11	Journals of Case Reports in Medicine,2022,11,4	Applications of a CT-compatible 3D Printed Plastic Scrotal “Clamshell” for Radiotherapy Planning, Proton Beam Shielding, and Testicular Immobilization	Skylar E. Burke, Alireza Kassaei, John P. Plastaras, Andrea Gray, Christine E. Hill-Kayser, Xuanfeng Ding, Nathaniel Thorne, Boon-Keng Kevin Teo, and Michael J. LaRiviere		Testicular	Proton Beam Therapy	Moldcare + Civo Vac Lok
2023/01	Journal of Radiation Research Volume 64, No. 1	Comparison of dosimetries of carbon-ion pencil beam scanning, proton pencil beam scanning and volumetric modulated arc therapy for locally recurrent rectal cancer	Shinichiro Mori1,* , Tapesh Bhattacharyya2, WataruFuruichi3, Naoki Tohyama4, Akihiro Nomoto5, Makoto Shinoto5, Hirotoshi Takiyama5 and Shigeru Yamada5	1National Institutes for Quantum Science and Technology, Quantum Life and Medical Science Directorate, Institute for Quantum Medical Science, Inage-ku, Chiba 263-8555, Japan 2Department of Radiation Oncology, Tata Medical Center, 14, MAR(E-W), DH Block (Newtown), Action Area 1, Newtown, Kolkata, WestBengal 700160, India 3Accelerator Engineering Corporation, Inage-Ku, Chiba, 263-0043, Japan 4Division of Medical Physics, Tokyo Bay Makuhari Clinic for Advanced Imaging, Cancer Screening, and High-Precision Radiotherapy, Mihama-ku, Chiba, 261-0024mJapan 5National Institutes for Quantum Science and Technology, QST Hospital, Inage-ku, Chiba 263-8555, Japan	Rectal	Carbon Ion Radiotherapy	Moldcare + Kuraray Shellfitter low-temperature thermoplastic shell
2023/5	Cancer Medicine Volume 12, Issue 13	Clinical impact of carbon-ion radiotherapy on hepatocellular carcinoma with Child-Pugh B cirrhosis	Yuichi Hiroshima 1 2, Masaru Wakatsuki 1, Takashi Kaneko 1 3, Hirokazu Makishima 1 2, Naomi Nagatake Okada 1, Shigeo Yasuda 1 4, Hitoshi Ishikawa 1, Hiroshi Tsuji 1	1QST Hospital, National Institutes for Quantum Sciences and Technology, Chiba, Japan. 2Department of Radiation Oncology, Faculty of Medicine, University of Tsukuba, Tsukuba, Japan. 3Department of Radiation Oncology, Yamagata University Faculty of Medicine, Yamagata, Japan. 4Department of Radiology, Chiba Rosai Hospital, Chiba, Japan.	Hepatocellular	Carbon Ion Radiotherapy	Moldcare + Thermoplastic sheets (Shellfitter; Kuraray)
2023/05	ESTRO Poster	Ablative Radiotherapy (SABR) as primary treatment in inoperable and elderly women with breast	De Haro Piedra R, Velázquez Miranda S, Rodríguez García, Muñoz Carmona	Servicio de Oncología Radioterápica Hospital Universitario Virgen del Rocío, Sevilla, España	Breast	SBRT	Moldcare + AnatGe Breast Stereotactic Prototype
2024/03	Cancers 2024, 16, 1284	Sacral-Nerve-Sparing Planning Strategy in Pelvic Sarcomas/Chordomas Treated with Carbon-Ion Radiotherapy	Ankita Nachankar 1,2,* , Mansure Schafasand 3,4,5 , Eugen Hug 2, Giovanna Martino 3, Joanna Góra 3, Antonio Carlino 3, Markus Stock 3,5 and Piero Fossati 2,6	1 ACOMIT GmbH, 2700 Wiener Neustadt, Austria 2 Department of Radiation Oncology, MedAustron Ion Therapy Center, 2700 Wiener Neustadt, Austria; 3 Department of Medical Physics, MedAustron Ion Therapy Center, 2700 Wiener Neustadt, Austria; 4 Department of Radiation Oncology, Medical University of Vienna, 1090 Wien, Austria 5 Division Medical Physics, Karl Landsteiner University of Health Sciences, 3500 Krems an der Donau, Austria 6 Division Radiation Oncology, Karl Landsteiner University of Health Sciences, 3500 Krems an der Donau, Austria	Pelvic	Carbon Ion Radiotherapy	Moldcare + Thermoplastic Mask
2025/05	ESTRO Poster	Full Monte Carlo Implementation in “Island Tumors”: Exploring Dosimetric Impact and Significant Discrepancies	Santiago Velázquez Miranda, Carlos Manuel de Sequeira Ribeiro Nunes, Ana Ureba Sánchez, María González Vizuete, Antonio Leal Plaza	Servicio de Oncología Radioterápica Hospital Universitario Virgen del Rocío, Sevilla, España	Breast	SBRT	Moldcare + AnatGe eXaCradle

<Case Report>							
2024/03	Case Report (France)	HN-0.5 / Breast Report	Centre Saint-Jean Saint-Doulchard	Centre Saint-Jean Saint-Doulchard_France	Positioning Arms for Breast Treatment	SBRT	Moldcare (HN 0.5) + Macromedics BreastBoard LX

<Media Spotlight>							
2025/08	Linkedin	Chest wall, eaSyFix, Moldcare, thermoplastic and bolus, eXaSkin			Chest	General	Moldcare + AnatGe EasyFix + AnatGe Mask