

# Brachytherapy: An overview for clinicians

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Citation Report

#	ARTICLE	IF	CITATIONS
1	A Review on Curability of Cancers: More Efforts for Novel Therapeutic Options Are Needed. <i>Cancers</i> , 2019, 11, 1782.	1.7	53
2	Brachytherapy Technique from 2D to 3D in Cervical Cancer – Short Overview. , 2019, , .		0
3	Incorporating Magnetic Resonance Imaging (MRI) Based Radiation Therapy Response Prediction into Clinical Practice for Locally Advanced Cervical Cancer Patients. <i>Seminars in Radiation Oncology</i> , 2020, 30, 291-299.	1.0	7
4	Sedation practices during high dose rate brachytherapy for children with urogenital and perianal rhabdomyosarcoma. <i>Journal of Pediatric Surgery</i> , 2022, 57, 1432-1438.	0.8	3
6	Identification of a Six-lncRNA Signature With Prognostic Value for Breast Cancer Patients. <i>Frontiers in Genetics</i> , 2020, 11, 673.	1.1	6
7	Brachytherapy Issues and Priorities in the Context of the Coronavirus Disease 2019 (COVID-19) Outbreak. <i>Advances in Radiation Oncology</i> , 2020, 5, 640-643.	0.6	9
8	Brachytherapy practice during the COVID-19 pandemic: a review on the practice changes. <i>Journal of Contemporary Brachytherapy</i> , 2020, 12, 393-396.	0.4	4
9	Implementation of image-guided brachytherapy as part of non-surgical treatment in inoperable endometrial cancer patients. <i>Gynecologic Oncology</i> , 2020, 158, 323-330.	0.6	14
10	Brachytherapy in India: Learning from the past and looking into the future. <i>Brachytherapy</i> , 2020, 19, 861-873.	0.2	3
11	Evaluation of adjuvant vaginal vault brachytherapy in early stage cervical cancer patients. <i>Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique</i> , 2020, 24, 860-865.	0.6	5
12	Dose evaluation of <sup>142</sup> Pr radioisotope by Monte Carlo method in eye brachytherapy. <i>Radiation Physics and Chemistry</i> , 2020, 177, 109150.	1.4	1
13	Radical prostatectomy versus brachytherapy for clinically localized prostate cancer on oncological and functional outcomes: a meta-analysis. <i>Translational Andrology and Urology</i> , 2020, 9, 332-343.	0.6	13
14	Cervical cancer incidence and mortality rates in Kentucky. <i>Gynecologic Oncology</i> , 2020, 158, 446-451.	0.6	4
15	Methodological Development of Combination Drug and Radiotherapy in Basic and Clinical Research. <i>Clinical Cancer Research</i> , 2020, 26, 4723-4736.	3.2	23
17	Can brachytherapy be properly considered in the clinical practice? Trilogy project: The vision of the AIRO (Italian Association of Radiotherapy and Clinical Oncology) Interventional Radiotherapy study group. <i>Journal of Contemporary Brachytherapy</i> , 2020, 12, 84-90.	0.4	28
18	Interaction between the Number of Chemotherapy Cycles and Brachytherapy Dose/Volume Parameters in Locally Advanced Cervical Cancer Patients. <i>Journal of Clinical Medicine</i> , 2020, 9, 1653.	1.0	10
19	Role of miRNAs in regulating responses to radiotherapy in human breast cancer. <i>International Journal of Radiation Biology</i> , 2021, 97, 289-301.	1.0	9
20	What is the dosimetric impact of isotropic vs anisotropic safety margins for delineation of the clinical target volume in breast brachytherapy?. <i>Brachytherapy</i> , 2021, 20, 155-162.	0.2	0

#	ARTICLE	IF	CITATIONS
21	Analysis of Radiation Dose/Volume Effect Relationship for Anorectal Morbidity in Children Treated for Pelvic Malignancies. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 109, 231-241.	0.4	7
22	Brachytherapy care during the COVID-19 pandemic: Practice statement from a cancer center in Wuhan, China. <i>Brachytherapy</i> , 2021, 20, 279-283.	0.2	2
23	Pulse-dose-rate interstitial brachytherapy in anal squamous cell carcinoma: clinical outcomes and patients' health quality perception. <i>Journal of Contemporary Brachytherapy</i> , 2021, 13, 263-272.	0.4	3
24	Historical Development and Current Indications of Image-Guided Brachytherapy. , 2021, , 9-20.		0
25	Management of sarcomas in children, adolescents and adults: Interactions in two different age groups under the umbrellas of GSF-GETO and SFCE, with the support of the NETSARC+ network. <i>Bulletin Du Cancer</i> , 2021, 108, 163-176.	0.6	7
26	Assessment of Dysfunction in the Urinary System as Well as Comfort in the Life of Women during and after Combination Therapy Due to Ovarian and Endometrial Cancer Based on the SWL, II-Q7 and UDI-6 Scales. <i>Journal of Clinical Medicine</i> , 2021, 10, 1228.	1.0	2
27	Pulsed Dose Rate Brachytherapy of Lip Carcinoma: Clinical Outcome and Quality of Life Analysis. <i>Cancers</i> , 2021, 13, 1387.	1.7	2
28	The Accuracy of Individualized 3D-Printing Template-Assisted I125 Radioactive Seed Implantation for Recurrent/Metastatic Head and Neck Cancer. <i>Frontiers in Oncology</i> , 2021, 11, 664996.	1.3	8
29	Brachytherapy for lung cancer. <i>Brachytherapy</i> , 2021, 20, 454-466.	0.2	11
30	Pioneering Iodine-125-Labeled Nanoscale Covalent Organic Frameworks for Brachytherapy. <i>Bioconjugate Chemistry</i> , 2021, 32, 755-762.	1.8	18
31	Interventions Preventing Vaginitis, Vaginal Atrophy after Brachytherapy or Radiotherapy Due to Malignant Tumors of the Female Reproductive Organs: A Systematic Review. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 3932.	1.2	4
32	Dose rate in the highest irradiation area of the rectum correlates with late rectal complications in patients treated with high-dose-rate computed tomography-based image-guided brachytherapy for cervical cancer. <i>Journal of Radiation Research</i> , 2021, 62, 494-501.	0.8	1
33	Glassy cell carcinoma of the uterine cervix: 20-year experience from a comprehensive cancer center. <i>Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique</i> , 2021, 25, 207-212.	0.6	3
34	Monte Carlo study of TG43 dosimetry parameters of GammaMed Plus high dose rate 192 Ir brachytherapy source using TOPAS. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 146-153.	0.8	4
35	Calcium Carbonate Core Shell Particles for Incorporation of <sup>225</sup> Ac and Their Application in Local $\beta$ -Radionuclide Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 25599-25610.	4.0	17
36	Analysis of Applicator Insertion Related Acute Side Effects for Cervical Cancer Treated With Brachytherapy. <i>Frontiers in Oncology</i> , 2021, 11, 677052.	1.3	3
37	Integration of functional imaging in brachytherapy. <i>Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique</i> , 2022, 26, 517-525.	0.6	3
38	Optimizing radiotherapy plans for cancer treatment with Tensor Networks. <i>Physics in Medicine and Biology</i> , 2021, 66, 125015.	1.6	1

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39	A multipurpose brachytherapy catheter to enable intratumoral injection. <i>Brachytherapy</i> , 2021, 20, 900-910.	0.2	0
40	Long-Term Safety and Efficacy of CT-Guided I125 Radioactive Seed Implantation as a Salvage Therapy for Recurrent Head and Neck Squamous Carcinoma: A Multicenter Retrospective Study. <i>Frontiers in Oncology</i> , 2021, 11, 645077.	1.3	4
41	A review of the research progress of interventional medical equipment and methods for prostate cancer. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2021, 17, e2303.	1.2	5
42	Stereotactic Ablative Brachytherapy: Recent Advances in Optimization of Radiobiological Cancer Therapy. <i>Cancers</i> , 2021, 13, 3493.	1.7	6
43	The current knowledge concerning solid cancer and therapy. <i>Journal of Biochemical and Molecular Toxicology</i> , 2021, 35, e22900.	1.4	64
44	PAX3&NCOA1 alveolar rhabdomyosarcoma of the tongue: A rare entity with challenging diagnosis and management. <i>Pediatric Blood and Cancer</i> , 2021, 68, e29288.	0.8	2
45	Current update on vaginal malignancies. <i>Abdominal Radiology</i> , 2021, 46, 5353-5368.	1.0	2
46	Effect of the dwell time deviation constraint on brachytherapy treatment planning for cervical cancer. <i>Journal of International Medical Research</i> , 2021, 49, 030006052110374.	0.4	0
47	TP53 mutants and non-HPV16/18 genotypes are poor prognostic factors for concurrent chemoradiotherapy in locally advanced cervical cancer. <i>Scientific Reports</i> , 2021, 11, 19261.	1.6	14
48	Therapeutic applications of radioactive sources: from image-guided brachytherapy to radio-guided surgical resection. <i>Quarterly Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 65, 190-201.	0.4	6
49	Radiobiological comparison between Cobalt&60 and Iridium&192 high&dose&rate brachytherapy sources: Part I&quot;cervical cancer. <i>Medical Physics</i> , 2021, 48, 6213-6225.	1.6	3
50	Image Segmentation in 3D Brachytherapy Using Convolutional LSTM. <i>Journal of Medical and Biological Engineering</i> , 0, , 1.	1.0	2
51	Design of a seed implantation robot with counterbalance and soft tissue stabilization mechanism for prostate cancer brachytherapy. <i>International Journal of Advanced Robotic Systems</i> , 2021, 18, 172988142110406.	1.3	2
52	Focal Brachytherapy for Localized Prostate Cancer: Midterm Outcomes. <i>Practical Radiation Oncology</i> , 2021, 11, e477-e485.	1.1	7
53	Long Noncoding RNAs Regulate the Radioresistance of Breast Cancer. <i>Analytical Cellular Pathology</i> , 2021, 2021, 1-11.	0.7	5
54	Overview of radiotherapy for oral cavity cancer. , 2022, , 165-182.		0
55	MR-Tracked Deflectable Stylet for Gynecologic Brachytherapy. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 407-417.	3.7	9
56	Non-melanoma Skin Cancer Treated by Contact High-dose-rate Radiotherapy (Brachytherapy): A Mono-institutional Series and Literature Review. <i>In Vivo</i> , 2021, 35, 2313-2319.	0.6	13

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57	Paclitaxel-loaded lignin particle encapsulated into electrospun PVA/PVP composite nanofiber for effective cervical cancer cell inhibition. <i>Nanotechnology</i> , 2021, 32, 015101.	1.3	21
58	Use of an intravaginal spacer in young girls treated with brachytherapy for bladder neck rhabdomyosarcoma: Dosimetric impact for organs at risk sparing and acute tolerance. <i>Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique</i> , 2021, , .	0.6	0
59	Increasing global accessibility to high-level treatments for cervical cancers. <i>Gynecologic Oncology</i> , 2021, , .	0.6	11
60	High-dose-rate brachytherapy boost for locally advanced cervical cancer: Oncological outcome and toxicity analysis of 4 fractionation schemes. <i>Clinical and Translational Radiation Oncology</i> , 2022, 32, 15-23.	0.9	7
61	Chinese Expert Consensus on Iodine125 Seed Implantation for Recurrent Cervical Cancer in 2021. <i>Frontiers in Oncology</i> , 2021, 11, 700710.	1.3	2
62	Developments and Risk-Adapted Strategies in Modern Pediatric Radiotherapy. , 2021, , 393-399.		0
63	Imaging-guided brachytherapy for locally advanced cervical cancer: the main process and common techniques. <i>American Journal of Cancer Research</i> , 2020, 10, 4165-4177.	1.4	1
64	Long-term urological complications after conservative local treatment (surgery and brachytherapy) in children with bladder prostate rhabdomyosarcoma: A single-team experience. <i>Pediatric Blood and Cancer</i> , 0, , e29532.	0.8	5
65	Clinical Implication of Simultaneous Intensity-modulated Radiotherapy Boost to Tumor Bed for Cervical Cancer with Full-thickness Stromal Invasion. <i>Oncologist</i> , 2022, 27, e53-e63.	1.9	1
66	Brachytherapy for the Conservative Treatment of Female Peri-Urethral Carcinoma. <i>Cancers</i> , 2022, 14, 845.	1.7	0
67	Radiotherapy of cervical cancer. <i>Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique</i> , 2022, 26, 298-308.	0.6	35
68	Radiotherapy for penile cancers. <i>Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique</i> , 2022, 26, 323-328.	0.6	1
69	Role of radiotherapy in the management of vulvar cancer: Recommendations of the French society for radiation oncology. <i>Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique</i> , 2022, 26, 286-291.	0.6	4
70	Radiotherapy for endometrial cancer. <i>Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique</i> , 2022, 26, 309-314.	0.6	6
71	Role of radiotherapy in the treatment of primary vaginal cancer: Recommendations of the French society for radiation oncology. <i>Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique</i> , 2022, 26, 292-297.	0.6	3
72	Best practice in brachytherapy. <i>Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique</i> , 2022, 26, 29-33.	0.6	3
73	Prevention of radiation-induced cancers. <i>Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique</i> , 2022, 26, 92-95.	0.6	1
74	CT-guided trans-sternal 125I seeds implantation for masses in the anterior or middle mediastinum. <i>Journal of Contemporary Brachytherapy</i> , 2022, 14, 35-42.	0.4	1

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75	Efficacy and safety of 3D printing coplanar template-assisted iodine-125 seed implantation as palliative treatment for inoperable pancreatic cancer. <i>Journal of Contemporary Brachytherapy</i> , 2022, 14, 140-147.	0.4	6
76	Long-Term Cardiac Damage Associated With Abdominal Irradiation in Mice. <i>Frontiers in Pharmacology</i> , 2022, 13, 850735.	1.6	2
77	A Comprehensive Analysis of the Relationship Between Dose Rate and Biological Effects in Preclinical and Clinical Studies, From Brachytherapy to Flattening Filter Free Radiation Therapy and FLASH Irradiation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2022, 113, 985-995.	0.4	5
78	Combined modality including novel sensitizers in gynecological cancers. <i>International Journal of Gynecological Cancer</i> , 2022, 32, 389-401.	1.2	2
79	Optimizing the IPSA Conditions to Improve the Treatment Plan Quality in Brachytherapy for Cervical Cancer. <i>Journal of Oncology</i> , 2022, 2022, 1-13.	0.6	0
80	Versatile Detection and Monitoring of Ionizing Radiation Treatment Using Radiation-Responsive Gel Nanosensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 14997-15007.	4.0	6
81	Brachytherapy for Pediatric Patients at Gustave Roussy Cancer Campus: A Model of International Cooperation for Highly Specialized Treatments. <i>International Journal of Radiation Oncology Biology Physics</i> , 2022, 113, 602-613.	0.4	11
82	Osteoradionecrosis of the Hip, a Troublesome Complication of Radiation Therapy: Case Series and Systematic Review. <i>Frontiers in Medicine</i> , 2022, 9, 858929.	1.2	4
83	Adaptive Step Puncture Strategy Based on Online Identification of Tissue Shore Hardness. , 2021, , .		0
85	The role of physics in modern radiotherapy: Current advances and developments. , 2022, , 139-162.		1
86	Survey of brachytherapy training experience among radiation oncology trainees and fellows in the Royal Australian and New Zealand College of Radiologists (<scp>RANZCR</scp>). <i>Journal of Medical Imaging and Radiation Oncology</i> , 2022, 66, 980-992.	0.9	8
87	Application of 3D printing in cervical cancer brachytherapy. <i>Journal of Radiation Research and Applied Sciences</i> , 2022, 15, 18-24.	0.7	0
88	Current Standards in the Management of Early and Locally Advanced Cervical Cancer: Update on the Benefit of Neoadjuvant/Adjuvant Strategies. <i>Cancers</i> , 2022, 14, 2449.	1.7	10
89	The Role of Interstitial Brachytherapy for Breast Cancer Treatment: An Overview of Indications, Applications, and Technical Notes. <i>Cancers</i> , 2022, 14, 2564.	1.7	9
90	Continuous liquid interface production of 3D printed drug-loaded spacers to improve prostate cancer brachytherapy treatment. <i>Acta Biomaterialia</i> , 2022, 148, 163-170.	4.1	2
92	Providing Patients with Locally Advanced Cervical Cancer Access to Brachytherapy: Experience from a Referral Network for Women Treated in Overseas France. <i>Cancers</i> , 2022, 14, 2935.	1.7	1
93	Proton Arc Therapy vs Interstitial HDR Brachytherapy in Gynecologic Cancer with Parametrial/pelvic Side Wall Extension. <i>International Journal of Particle Therapy</i> , 2022, 9, 31-39.	0.9	1
94	Response Evaluation Following Radiation Therapy With 18F-FDG PET/CT: Common Variants of Radiation-Induced Changes and Potential Pitfalls. <i>Seminars in Nuclear Medicine</i> , 2022, 52, 681-706.	2.5	1

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95	Adaptive objective configuration in bi-objective evolutionary optimization for cervical cancer brachytherapy treatment planning. , 2022, , .		0
96	Brachytherapy outcome modeling in cervical cancer patients: A predictive machine learning study on patient-specific clinical, physical and dosimetric parameters. Brachytherapy, 2022, 21, 769-782.	0.2	1
97	Prognosis of adenoid cystic carcinoma in head and neck region treated with different regimensâ€”A singleâ€”centre study. Cancer Medicine, 2023, 12, 2368-2377.	1.3	1
98	Reirradiation: A complex situation. Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique, 2022, 26, 911-915.	0.6	3
99	The efficacy and safety of 125I brachytherapy combined with pre-operative transarterial chemoembolization in patients with locally advanced head and neck cancer. Frontiers in Oncology, 0, 12, .	1.3	0
100	Dose escalation by brachytherapy for gynecological cancers. Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique, 2022, 26, 905-910.	0.6	3
101	Prediction models for brachytherapy-induced rectal toxicity in patients with locally advanced pelvic cancers: a systematic review. Journal of Contemporary Brachytherapy, 2022, 14, 411-422.	0.4	4
102	A personalized DVH prediction model for HDR brachytherapy in cervical cancer treatment. Frontiers in Oncology, 0, 12, .	1.3	0
103	Automatic segmentation of prostate and extracapsular structures in MRI to predict needle deflection in percutaneous prostate intervention. International Journal of Computer Assisted Radiology and Surgery, 0, , .	1.7	0
104	Knowledge domain and emerging trends in brachytherapy: A scientometric analysis. Precision Radiation Oncology, 2022, 6, 243-256.	0.4	1
105	Statistical analysis of randomized prospective trial of two fractionation schedules in HDR brachytherapy. AIP Conference Proceedings, 2022, , .	0.3	0
106	Image-guided brachytherapy following external-beam radiation therapy for patients with inoperable endometrial cancer. Brachytherapy, 2022, , .	0.2	1
107	Brachytherapy training survey among radiation oncology residents in Europe. Radiotherapy and Oncology, 2022, 177, 172-178.	0.3	11
108	Quality of life among cervical cancer patients following completion of chemoradiotherapy at Ocean Road Cancer Institute (ORCI) in Tanzania. BMC Women's Health, 2022, 22, .	0.8	2
109	Dendrimers as prospective nanocarrier for targeted delivery against lung cancer. European Polymer Journal, 2022, 180, 111635.	2.6	30
110	Image-guided adaptive brachytherapy for advanced cervical cancer spreading to the bladder and/or rectum: Clinical outcome and prognostic factors. Gynecologic Oncology, 2023, 168, 32-38.	0.6	0
111	Treatment outcomes of squamous cell carcinoma of the lip: A retrospective study. Oncology Letters, 2022, 25, .	0.8	0
112	Mechanism of exosomes in the tumor microenvironment in the abscopal effect (Review). International Journal of Oncology, 2022, 62, .	1.4	1

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113	Oncopharmacology in Interventional Radiology. <i>Seminars in Interventional Radiology</i> , 2022, 39, 411-415.	0.3	0
114	Feasibility of MRI targeted single fraction HDR brachytherapy for localized prostate carcinoma: ProFocAL-study. <i>Journal of Cancer Research and Clinical Oncology</i> , 0, , .	1.2	0
115	Deep learning-based two-step organs at risk auto-segmentation model for brachytherapy planning in parotid gland carcinoma. <i>Journal of Contemporary Brachytherapy</i> , 2022, 14, 527-535.	0.4	0
116	Developments in the Surgical Approach to Staging and Resection of Rhabdomyosarcoma. <i>Cancers</i> , 2023, 15, 449.	1.7	3
118	Intra-Arterial Delivery of Radiopharmaceuticals in Oncology: Current Trends and the Future of Alpha-Particle Therapeutics. <i>Pharmaceutics</i> , 2023, 15, 1138.	2.0	4
119	A phase 2 study of thalidomide for the treatment of radiation-induced blood-brain barrier injury. <i>Science Translational Medicine</i> , 2023, 15, .	5.8	7
120	Cancer-Associated Fibroblasts Exposed to High-Dose Ionizing Radiation Promote M2 Polarization of Macrophages, Which Induce Radiosensitivity in Cervical Cancer. <i>Cancers</i> , 2023, 15, 1620.	1.7	5
121	Using a deep learning approach for implanted seed detection on fluoroscopy images in prostate brachytherapy. <i>Journal of Contemporary Brachytherapy</i> , 2023, 15, 69-74.	0.4	0
122	Therapeutic and prophylactic effects of radiation therapy in the management of recurrent granulation tissue induced tracheal stenosis: a review on the role of Endobronchial brachytherapy and external beam radiation therapy. <i>Brachytherapy</i> , 2023, , .	0.2	0
123	Investigation of Radiochromic Film Use for Source Position Verification through a LINAC On-Board Imager (OBI). <i>Medicina (Lithuania)</i> , 2023, 59, 628.	0.8	0
124	Use of Thermoluminescence Dosimetry for QA in High-Dose-Rate Skin Surface Brachytherapy with Custom-Flap Applicator. <i>Sensors</i> , 2023, 23, 3592.	2.1	1
125	Innovative Invasive Loco-Regional Techniques for the Treatment of Lung Cancer. <i>Cancers</i> , 2023, 15, 2244.	1.7	1
126	Relationship between the tumor microenvironment and the efficacy of the combination of radiotherapy and immunotherapy. <i>International Review of Cell and Molecular Biology</i> , 2023, , .	1.6	1
127	Prior MRI-imaging impact of patients submitted to brachytherapy for prostate cancer. <i>Actas Urológicas Españolas (English Edition)</i> , 2023, 47, 503-508.	0.2	0
128	Brachytherapy. , 2023, , 189-199.		0
137	Central retinal artery occlusion caused by radiation-induced carotid stenosis. <i>Acta Neurologica Belgica</i> , 2024, 124, 371-373.	0.5	0