

BAB 5

KESIMPULAN DAN SARAN

5.1 Kesimpulan

Penelitian ini bertujuan untuk memetakan dan menganalisis perkembangan riset terkait mukositis oral yang diinduksi oleh radioterapi berdasarkan pendekatan bibliometrik menggunakan data dari database Scopus. Hasil analisis menunjukkan bahwa publikasi mengenai topik ini mengalami peningkatan yang signifikan dalam kurun waktu 1979–2025, dengan laju pertumbuhan tahunan mencapai 8,88%. Total terdapat 1.147 dokumen yang dipublikasikan dalam 487 sumber, mencerminkan meningkatnya perhatian ilmiah terhadap topik efek samping radioterapi pada mukosa rongga mulut. Sebagian besar publikasi diterbitkan dalam bentuk artikel penelitian (860 dokumen) dan artikel ulasan (226 dokumen), dengan jumlah rata-rata 27,31 sitasi per dokumen, menandakan bahwa riset ini memiliki tingkat keterbacaan yang tinggi dalam komunitas ilmiah. Analisis kolaborasi menunjukkan terdapat 6.474 penulis dengan Sebagian besar publikasi terkait mukositis oral adalah hasil kolaborasi internasional, dengan negara-negara seperti China, USA, Japan, dan India yang mendominasi kontribusi global. Selain itu, negara-negara seperti Malaysia dan Saudi Arabia menunjukkan tingkat kolaborasi yang sangat tinggi.

5.2 Saran

5.2.1 Bagi Peneliti Selanjutnya

Hasil penelitian ini dapat dijadikan sebagai dasar untuk mengidentifikasi kesenjangan penelitian (*research gap*) dan mengembangkan topik riset baru yang berfokus pada mekanisme biologis, strategi pencegahan, serta intervensi klinis terhadap mukositis oral. Penelitian lanjutan juga disarankan menggunakan pendekatan sistematis yang memadukan data bibliometrik dengan *systematic review* agar menghasilkan analisis yang lebih mendalam.

5.2.2 Bagi institusi Pendidikan dan Rumah Sakit Akademik

Perlu ditingkatkan kolaborasi internasional melalui program riset bersama, pertukaran ilmuwan, dan publikasi lintas negara untuk memperluas jaringan penelitian serta meningkatkan visibilitas global.

Bagi praktisi kesehatan dan dokter onkologi, hasil penelitian ini dapat menjadi referensi untuk memahami arah perkembangan riset terkini dan mengintegrasikan temuan ilmiah terbaru ke dalam praktik klinis, khususnya dalam pencegahan dan penatalaksanaan mukositis oral akibat radioterapi.

5.2.3 Bagi Pengembang Kebijakan Penelitian

Studi ini dapat dijadikan acuan dalam menentukan prioritas pendanaan riset di bidang onkologi dan kedokteran gigi, terutama yang berkaitan dengan efek samping terapi kanker, agar inovasi penanganan mukositis oral dapat terus berkembang.

DAFTAR PUSTAKA

- Ana, G. S., Costa Normando, A. G., de Toledo, I. P., dos Reis, P. E. D., & Silva Guerra, E. N. (2020). Topical treatment of oral mucositis in cancer patients: A systematic review of randomized clinical trials. *Asian Pacific Journal of Cancer Prevention*, 21(7), 1851 – 1866. <https://doi.org/10.31557/APJCP.2020.21.7.1851>
- Aria, M., & Cuccurullo, C. (2017). bibliometrix: An R-tool for comprehensive science mapping analysis. *Journal of Informetrics*, 11(4), 959–975. <https://doi.org/10.1016/j.joi.2017.08.007>
- Bakar, A., Irham, L. M., & Ningrum, V. (2024). Publication Trend on Oral Mucositis Induced by Chemotherapy 1978-2023: Bibliometric Analysis. *Scripta Medica (Banja Luka)*, 55(5), 631–638. <https://doi.org/10.5937/scriptamed55-51528>
- Belfiore, E., Di Prima, G., Angellotti, G., Panzarella, V., & De Caro, V. (2024). Plant-Derived Polyphenols to Prevent and Treat Oral Mucositis Induced by Chemo- and Radiotherapy in Head and Neck Cancers Management. *Cancers*, 16(2). <https://doi.org/10.3390/cancers16020260>
- Braguês, R., Marvão, M. F., Correia, P., & Silva, R. M. (2024). Oral Mucositis Management in Children under Cancer Treatment: A Systematic Review. *Cancers*, 16(8), 1–16. <https://doi.org/10.3390/cancers16081548>
- Dawson, D. V., Drake, D. R., Hill, J. R., Brogden, K. A., Fischer, C. L., & Wertz, P. W. (2013). Organization, barrier function and antimicrobial lipids of the oral mucosa. *International Journal of Cosmetic Science*, 35(3), 220–223. <https://doi.org/10.1111/ics.12038>
- Dodd, M. J. (2002). Defining clinically meaningful outcomes in the evaluation of new treatments for Oral Mucositis: A commentary. *Cancer Investigation*, 20(5–6), 851–852. <https://doi.org/10.1081/CNV-120002500>
- Donthu, N., Kumar, S., Mukherjee, D., Pandey, N., & Lim, W. M. (2021). How to conduct a bibliometric analysis: An overview and guidelines. *Journal of Business Research*, 133(March), 285–296. <https://doi.org/10.1016/j.jbusres.2021.04.070>
- Elad, S., Yarom, N., Zadik, Y., Kuten-Shorrer, M., & Sonis, S. T. (2022). The broadening scope of oral mucositis and oral ulcerative mucosal toxicities of anticancer therapies. *CA Cancer Journal for Clinicians*, 72(1), 57 – 77. <https://doi.org/10.3322/caac.21704>

- Ellegaard, O., & Wallin, J. A. (2015). The bibliometric analysis of scholarly production: How great is the impact? *Scientometrics*, 105(3), 1809–1831. <https://doi.org/10.1007/s11192-015-1645-z>
- Elting, L. S., Keefe, D., Peterson, D. E., Ph, D., Schubert, M., Hauer-jensen, M., Ph, D., Bekele, B. N., Ph, D., Raber-durlacher, J., Donnelly, J. P., Ph, D., & Rubenstein, E. B. (2004). *Perspectives on Cancer Therapy-Induced*. <https://doi.org/10.1002/cncr.20162>
- Fatimah, S., Sufiawati, I., & Wijaya, I. (2016). Characteristic patients with oral mucositis receiving 5-FU chemotherapy at Hasan Sadikin Hospital Bandung. *Padjadjaran Journal of Dentistry*, 28(3), 205–209. <https://doi.org/10.24198/pjd.vol28no3.13695>
- Huang, J., Hwang, A. Y. M., Jia, Y., Kim, B., Iskandar, M., Mohammed, A. I., & Cirillo, N. (2022). Experimental Chemotherapy-Induced Mucositis: A Scoping Review Guiding the Design of Suitable Preclinical Models. *International Journal of Molecular Sciences*, 23(23). <https://doi.org/10.3390/ijms232315434>
- Iovoli, A. J., Turecki, L., Qiu, M. L., Khan, M., Smith, K., Yu, H., Ma, S. J., Farrugia, M. K., & Singh, A. K. (2023). Severe Oral Mucositis after Intensity-Modulated Radiation Therapy for Head and Neck Cancer. *JAMA Network Open*, 6(10), E2337265. <https://doi.org/10.1001/jamanetworkopen.2023.37265>
- Jensen, S. B., & Peterson, D. E. (2014). Oral mucosal injury caused by cancer therapies: Current management and new frontiers in research. *Journal of Oral Pathology and Medicine*, 43(2), 81–90. <https://doi.org/10.1111/jop.12135>
- Lalla, R. V, Bowen, J., Barasch, A., Elting, L., Epstein, J., Keefe, D. M., McGuire, D. B., Migliorati, C., Nicolatou-Galitis, O., Peterson, D. E., Raber-Durlacher, J. E., Sonis, S. T., Elad, S., Al-Dasooqi, N., Brennan, M., Gibson, R., Fulton, J., Hewson, I., Jensen, S. B., ... Zadik, Y. (2014). MASCC/ISOO clinical practice guidelines for the management of mucositis secondary to cancer therapy. *Cancer*, 120(10), 1453 – 1461. <https://doi.org/10.1002/cncr.28592>
- Lalla, R. V, Schubert, M. M., Bensadoun, R. J., & Keefe, D. (2006). Anti-inflammatory agents in the management of alimentary mucositis. *Supportive Care in Cancer: Official Journal of the Multinational Association of Supportive Care in Cancer*, 14(6), 558–565. <https://doi.org/10.1007/s00520-006-0050-9>
- Lalla, R. V, Sonis, S. T., & Peterson, D. E. (2008). Management of Oral Mucositis in Patients Who Have Cancer. *Dental Clinics of North America*, 52(1), 61 – 77. <https://doi.org/10.1016/j.cden.2007.10.002>

- Maria, O. M., Eliopoulos, N., & Muanza, T. (2017). Radiation-Induced Oral Mucositis. *Frontiers in Oncology*, 7(MAY). <https://doi.org/10.3389/fonc.2017.00089>
- Min, Z., Yang, L., Hu, Y., & Huang, R. (2023). Oral microbiota dysbiosis accelerates the development and onset of mucositis and oral ulcers. *Frontiers in Microbiology*, 14. <https://doi.org/10.3389/fmicb.2023.1061032>
- Peterson, D. E., Öhrn, K., Bowen, J., Flidner, M., Lees, J., Loprinzi, C., Mori, T., Osaguona, A., Weikel, D. S., Elad, S., & Lalla, R. V. (2013). Systematic review of oral cryotherapy for management of oral mucositis caused by cancer therapy. *Supportive Care in Cancer*, 21(1), 327 – 332. <https://doi.org/10.1007/s00520-012-1562-0>
- Pulito, C., Cristaudo, A., Porta, C. La, Zapperi, S., Blandino, G., Morrone, A., & Strano, S. (2020). Oral mucositis: The hidden side of cancer therapy. *Journal of Experimental and Clinical Cancer Research*, 39(1). <https://doi.org/10.1186/s13046-020-01715-7>
- Scully, C., Sonis, S., & Diz, P. D. (2006). Oral mucositis. *Oral Diseases*, 12(3), 229–241. <https://doi.org/10.1111/j.1601-0825.2006.01258.x>
- Sonis, S. T. (2022). Precision medicine for risk prediction of oral complications of cancer therapy–The example of oral mucositis in patients receiving radiation therapy for cancers of the head and neck. *Frontiers in Oral Health*, 3. <https://doi.org/10.3389/froh.2022.917860>
- Sonis, S. T., Elting, L. S., Keefe, D., Peterson, D. E., Schubert, M., Hauer-Jensen, M., Bekele, B. N., Raber-Durlacher, J., Donnelly, J. P., & Rubenstein, E. B. (2004). Perspectives on Cancer Therapy-Induced Mucosal Injury: Pathogenesis, Measurement, Epidemiology, and Consequences for Patients. *Cancer*, 100(9 SUPPL.), 1995–2025. <https://doi.org/10.1002/cncr.20162>
- Traktama, D. O., & Sufiawati, I. (2018). *Oral mucositis severity in patient with head and neck cancer undergoing chemotherapy and/or radiotherapy*. *Majalah Kedokteran Gigi Indonesia*, 4(1), 49–53. <https://journal.ugm.ac.id/mkgi/article/view/33709>
- Trotti, A., Bellm, L. A., Epstein, J. B., Frame, D., Fuchs, H. J., Gwede, C. K., Komaroff, E., Nalysnyk, L., & Zilberberg, M. D. (2003). Mucositis incidence, severity and associated outcomes in patients with head and neck cancer receiving radiotherapy with or without chemotherapy: A systematic literature review. *Radiotherapy and Oncology*, 66(3), 253 – 262. [https://doi.org/10.1016/S0167-8140\(02\)00404-8](https://doi.org/10.1016/S0167-8140(02)00404-8)
- van Eck, N. J., & Waltman, L. (2010). Software survey: VOSviewer, a computer program for bibliometric mapping. *Scientometrics*, 84(2), 523–538. <https://doi.org/10.1007/s11192-009-0146-3>

- Villa, A., & Sonis, S. T. (2016). Pharmacotherapy for the management of cancer regimen-related oral mucositis. *Expert Opinion on Pharmacotherapy*, 17(13), 1801–1807. <https://doi.org/10.1080/14656566.2016.1217993>
- World Health Organization. (1979). *WHO handbook for reporting results of cancer treatment*. World Health Organization. <https://iris.who.int/handle/10665/37200>
- Yadav, R., Verma, U., Tiwari, R., & Article, O. (2019). Heterogeneous conceptualization of etiopathogenesis: Oral pyogenic granuloma. *National Journal of Maxillofacial Surgery*, 10(1), 3–7. <https://doi.org/10.4103/njms.NJMS>
- Yang, B., Li, W., & Shi, J. (2024). Preventive effect of probiotics on oral mucositis induced by anticancer therapy: a systematic review and meta-analysis of randomized controlled trials. *BMC Oral Health*, 24(1). <https://doi.org/10.1186/s12903-024-04955-7>
- Yokota, T., Ueno, T., Soga, Y., Ishiki, H., Uezono, Y., Mori, T., Zenda, S., & Uchitomi, Y. (2022). J-SUPPORT research policy for oral mucositis associated with cancer treatment. *Cancer Medicine*, 11(24), 4816 – 4829. <https://doi.org/10.1002/cam4.4811c>
- Zupic, I., & Čater, T. (2015). Bibliometric methods in management and organization. *Organizational Research Methods*, 18(3), 429–472. <https://doi.org/10.1177/1094428114562629>.

LAMPIRAN

Lampiran 1. Riwayat Akademik Peneliti

RIWAYAT AKADEMIK PENELITI

Nama : Tri Rahmelia

Jenis Kelamin : Perempuan

Tempat/Tanggal Lahir : Selensen, 15 Mei 2004

Alamat : Selensen, Kemuning, Indragirihilir.

E-mail/ HP : 2210070110089student.unbrah.ac.id/085264920701

Riwayat Pendidikan :

TK : TK Dharma Wanita Persatuan (2010)

SD : SDN 002 Selensen (2016)

SMP : SMPN I Kemuning (2019)

SMA : SMAS Babussalam Pekanbaru (2022)

Orang Tua :

Nama Ayah : Suriyanto (Almarhum)

Pekerjaan : -

Alamat : -

Nama ibu : R. Marlina

Pekerjaan : Wiraswasta

Alamat : Selensen

Padang, 16 Januari 2026

Tri Rahmelia

2210070110089

Lampiran 2. Surat Keterangan Bebas Etik



KOMITE ETIK PENELITIAN KESEHATAN
FAKULTAS KEDOKTERAN GIGI
Universitas Baiturrahmah

Jl. Raya By Pass KM.14 Sei Saph - Padang,
Sumatera Barat Indonesia 25159

+62 812-4975-9949

kepkih@fg.unbrah.ac.id

SURAT KETERANGAN

No. C.021/KEPK-FKGUNBRAH/01/12/2025

Bersama ini diterangkan bahwa berdasarkan Kaji Etik oleh TIM Komite Etik Penelitian Kesehatan Fakultas Kedokteran Gigi Universitas Baiturrahmah pada Tanggal 1 Desember 2025, penelitian dengan Judul :

Analisis Bibliometrik Tren Publikasi Terkait Mukositis Oral yang Diinduksi oleh Radioterapi

Nama Peneliti Utama : **TRI RAHMELIA**

Nama Institusi : FKG Universitas Baiturrahmah

Tidak Memerlukan Rekomendasi Etik karena subjek penelitian tidak melibatkan manusia dengan spesimen, termasuk datanya ataupun penelitian pada hewan.

Demikianlah Surat Keterangan ini dikeluarkan untuk dapat digunakan seperlunya.

Padang, 1 Desember 2025

Ketua,
Chairperson

Dr. drg. Yenita Alamsyah, M.Kes

Lampiran 3. Analisis Bibliometrik

1. Infomasi Utama (*Main informan*)

No	Description	Results
	MAIN INFORMATION ABOUT DATA	
1.	Timespan	1979:2025
2.	Sources (Journals, Books, etc)	487
3.	Documents	1147
4.	Annual Growth Rate %	8,88
5.	Document Average Age	8,89
6.	Average citations per doc	27,31
7.	References	0
8.	DOCUMENT CONTENTS	
9.	Keywords Plus (ID)	1454
10.	Author's Keywords (DE)	6720
11.	AUTHORS	
12.	Authors	6474
13.	Authors of single-authored docs	42
14.	AUTHORS COLLABORATION	
15.	Single-authored docs	46
16.	Co-Authors per Doc	7,31
17.	International co-authorships %	16,3
18.	DOCUMENT TYPES	
19.	article	860
20.	article article	11
21.	article review	2
22.	book chapter	5
23.	conference paper	9
24.	data paper	1
25.	editorial	4
26.	letter	14
27.	note	6
28.	review	226
29.	review article	2
30.	review review	1
31.	short survey	6

2. Pertumbuhan Publikasi (*Annual Scientific Production*)

No	Year	Articles
1.	1979	1
2.	1980	1
3.	1981	0
4.	1982	1
5.	1983	0
6.	1984	0
7.	1985	1
8.	1986	0
9.	1987	0
10.	1988	0
11.	1989	1
12.	1990	1
13.	1991	0
14.	1992	2
15.	1993	1
16.	1994	6
17.	1995	8
18.	1996	7
19.	1997	10
20.	1998	7
21.	1999	10
22.	2000	7
23.	2001	11
24.	2002	11
25.	2003	16
26.	2004	15
27.	2005	16
28.	2006	18
29.	2007	16
30.	2008	17
31.	2009	19
32.	2010	20
33.	2011	26
34.	2012	33
35.	2013	39
36.	2014	33
37.	2015	49
38.	2016	60
39.	2017	73

40.	2018	45
41.	2019	64
42.	2020	75
43.	2021	116
44.	2022	90
45.	2023	75
46.	2024	96
47.	2025	50

3. Negara Teratas yang Paling Banyak Dikutip (*Most Cited Countries*)

No	Country	TC	Average Article Citations
1.	USA	7047	62,40
2.	CHINA	2660	16,50
3.	INDIA	1682	17,30
4.	JAPAN	1496	15,10
5.	BRAZIL	1267	18,40
6.	ITALY	1104	19,40
7.	CANADA	958	53,20
8.	IRAN	892	22,30
9.	GERMANY	873	23,00
10.	UNITED KINGDOM	803	30,90
11.	AUSTRALIA	713	32,40
12.	FRANCE	648	29,50
13.	KOREA	498	21,70
14.	GREECE	425	35,40
15.	ISRAEL	404	67,30
16.	ARGENTINA	328	82,00
17.	NETHERLANDS	314	31,40
18.	BELGIUM	275	22,90
19.	TURKEY	272	12,40
20.	POLAND	256	12,20
21.	SPAIN	251	10,90
22.	IRELAND	222	55,50
23.	FINLAND	220	220,00
24.	HONG KONG	171	34,20
25.	AUSTRIA	160	22,90
26.	NEW ZEALAND	153	25,50
27.	SWITZERLAND	150	30,00
28.	SAUDI ARABIA	146	36,50
29.	LITHUANIA	119	119,00
30.	SWEDEN	108	21,60
31.	THAILAND	91	13,00
32.	MALAYSIA	84	12,00
33.	DENMARK	76	25,30

34.	EGYPT	60	8,60
35.	MEXICO	53	17,70
36.	PHILIPPINES	48	24,00
37.	PAKISTAN	45	11,20
38.	CHILE	43	14,30
39.	CZECH REPUBLIC	25	12,50
40.	CYPRUS	23	23,00
41.	SINGAPORE	21	21,00
42.	PORTUGAL	9	4,50
43.	INDONESIA	8	1,30
44.	NORWAY	7	3,50
45.	SERBIA	4	1,30
46.	BOSNIA	3	3,00
47.	CROATIA	3	1,00
48.	NEPAL	3	3,00
49.	IRAQ	2	2,00
50.	BANGLADESH	1	1,00
51.	ROMANIA	1	1,00
52.	HUNGARY	0	0,00
53.	NIGERIA	0	0,00

4. Jurnal Paling Aktif (*Most Relevant Sources*)

No	Sources	Articles
1.	SUPPORTIVE CARE IN CANCER	72
2.	ORAL ONCOLOGY	40
3.	HEAD AND NECK	29
4.	RADIOTHERAPY AND ONCOLOGY	28
5.	FRONTIERS IN ONCOLOGY	23
6.	INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS	19
7.	CANCERS	18
8.	STRAHLENTHERAPIE UND ONKOLOGIE	15
9.	RADIATION ONCOLOGY	13
10.	CRITICAL REVIEWS IN ONCOLOGY/HEMATOLOGY	10
11.	BMC ORAL HEALTH	9
12.	CANCER	9
13.	MEDICINE (UNITED STATES)	9
14.	ORAL DISEASES	9
15.	ASIAN PACIFIC JOURNAL OF CANCER PREVENTION	8
16.	CLINICAL AND TRANSLATIONAL ONCOLOGY	8
17.	EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY	8
18.	JOURNAL OF CLINICAL ONCOLOGY	8
19.	ANNALS OF ONCOLOGY	7
20.	ANTICANCER RESEARCH	7

21.	BMC CANCER	7
22.	CANCER/RADIOTHERAPIE	7
23.	FRONTIERS IN PHARMACOLOGY	7
24.	INTERNATIONAL JOURNAL OF CLINICAL ONCOLOGY	7
25.	JAPANESE JOURNAL OF CLINICAL ONCOLOGY	7
26.	JOURNAL OF CANCER RESEARCH AND THERAPEUTICS	7
27.	ONCOTARGETS AND THERAPY	7
28.	RADIATION ONCOLOGY JOURNAL	7
29.	REPORTS OF PRACTICAL ONCOLOGY AND RADIOTHERAPY	7
30.	AMERICAN JOURNAL OF CLINICAL ONCOLOGY: CANCER CLINICAL TRIALS	6
31.	CANCER CHEMOTHERAPY AND PHARMACOLOGY	6
32.	CANCER MEDICINE	6
33.	CURRENT ONCOLOGY	6
34.	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	6
35.	JOURNAL OF B.U.ON.	6
36.	MEDICINA ORAL PATOLOGIA ORAL Y CIRUGIA BUCAL	6
37.	SEMINARS IN ONCOLOGY	6
38.	CANCER NURSING	5
39.	CLINICAL AND TRANSLATIONAL RADIATION ONCOLOGY	5
40.	IN VIVO	5
41.	INDIAN JOURNAL OF CANCER	5
42.	INDIAN JOURNAL OF PALLIATIVE CARE	5
43.	INTEGRATIVE CANCER THERAPIES	5
44.	JOURNAL OF CLINICAL AND DIAGNOSTIC RESEARCH	5
45.	JOURNAL OF CLINICAL MEDICINE	5
46.	MEDICAL ONCOLOGY	5
47.	MEDICINA ORAL, PATOLOGIA ORAL Y CIRUGIA BUCAL	5
48.	ORAL ONCOLOGY REPORTS	5
49.	CANCER TREATMENT AND RESEARCH COMMUNICATIONS	4
50.	CLINICAL ONCOLOGY	4

5. Produktivitas Tahunan (*Sources' Production Over Time*)

No	Year	SUPPORTIVE CARE IN CANCER	ORAL ONCOLOGY	HEAD AND NECK	RADIO THERAPY AND ONCOLOGY	FRONTIERS IN ONCOLOGY
1.	1979	0	0	0	0	0
2.	1980	0	0	0	0	0
3.	1981	0	0	0	0	0
4.	1982	0	0	0	0	0
5.	1983	0	0	0	0	0
6.	1984	0	0	0	0	0
7.	1985	0	0	0	0	0

8.	1986	0	0	0	0	0
9.	1987	0	0	0	0	0
10.	1988	0	0	0	0	0
11.	1989	0	0	0	0	0
12.	1990	0	0	0	0	0
13.	1991	0	0	0	0	0
14.	1992	0	0	0	0	0
15.	1993	0	0	0	0	0
16.	1994	0	0	0	0	0
17.	1995	0	0	0	1	0
18.	1996	0	0	0	1	0
19.	1997	0	1	0	2	0
20.	1998	1	1	0	2	0
21.	1999	1	2	0	3	0
22.	2000	1	2	0	3	0
23.	2001	2	4	0	3	0
24.	2002	2	5	1	3	0
25.	2003	2	6	1	5	0
26.	2004	4	6	1	6	0
27.	2005	5	6	2	7	0
28.	2006	6	6	2	7	0
29.	2007	7	6	2	7	0
30.	2008	8	6	2	8	0
31.	2009	8	7	2	9	0
32.	2010	9	8	2	10	0
33.	2011	10	8	2	12	0
34.	2012	12	11	4	12	0
35.	2013	15	13	5	13	1
36.	2014	17	17	5	14	1
37.	2015	20	17	6	14	3
38.	2016	25	18	11	16	3
39.	2017	27	25	11	18	4
40.	2018	31	26	13	19	6
41.	2019	35	28	15	19	7
42.	2020	43	31	18	21	8
43.	2021	51	32	22	23	15
44.	2022	58	35	22	25	18
45.	2023	61	36	25	26	20
46.	2024	65	38	28	26	23
47.	2025	72	40	29	28	23

6. Dampak Lokal Berdasarkan H-index (*Sources' Local Impact By H-index*)

No	Source	h_index	g_index	m_index	TC	NP	PY_start
1.	SUPPORTIVE CARE IN CANCER	31	54	1,107	3048	72	1998
2.	ORAL ONCOLOGY	21	31	0,724	983	40	1997
3.	RADIOTHERAPY AND ONCOLOGY	19	28	0,613	2103	28	1995
4.	INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS	17	19	0,586	1155	19	1997
5.	HEAD AND NECK	14	23	0,583	571	29	2002
6.	FRONTIERS IN ONCOLOGY	13	23	1	741	23	2013
7.	STRAHLENTHERAPIE UND ONKOLOGIE	10	15	0,5	261	15	2006
8.	CRITICAL REVIEWS IN ONCOLOGY/HEMATOLOGY	9	10	0,643	453	10	2012
9.	RADIATION ONCOLOGY	9	13	0,692	255	13	2013
10.	CANCER	8	9	0,174	943	9	1980
11.	CANCERS	8	18	1	344	18	2018
12.	JOURNAL OF CLINICAL ONCOLOGY	8	8	0,25	808	8	1994
13.	ANNALS OF ONCOLOGY	7	7	0,206	612	7	1992
14.	MEDICINE (UNITED STATES)	7	9	0,7	117	9	2016
15.	ONCOTARGETS AND THERAPY	7	7	0,412	183	7	2009
16.	ORAL DISEASES	7	9	0,438	262	9	2010
17.	AMERICAN JOURNAL OF CLINICAL ONCOLOGY: CANCER CLINICAL TRIALS	6	6	0,194	148	6	1995
18.	RADIATION ONCOLOGY JOURNAL	6	7	0,462	71	7	2013
19.	SEMINARS IN ONCOLOGY	6	6	0,188	116	6	1994
20.	ASIAN PACIFIC JOURNAL OF CANCER PREVENTION	5	8	0,417	90	8	2014
21.	BMC CANCER	5	7	0,333	102	7	2011

22.	CANCER CHEMOTHERAPY AND PHARMACOLOGY	5	6	0,25	81	6	2006
23.	CURRENT ONCOLOGY	5	6	0,833	168	6	2020
24.	EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY	5	8	0,263	222	8	2007
25.	INTERNATIONAL JOURNAL OF CLINICAL ONCOLOGY	5	7	0,455	60	7	2015
26.	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	5	6	0,556	123	6	2017
27.	JAPANESE JOURNAL OF CLINICAL ONCOLOGY	5	7	0,217	126	7	2003
28.	REPORTS OF PRACTICAL ONCOLOGY AND RADIOTHERAPY	5	7	0,357	74	7	2012
29.	BMC ORAL HEALTH	4	8	0,444	64	9	2017
30.	CANCER MEDICINE	4	6	0,444	533	6	2017
31.	CANCER NURSING	4	5	0,167	260	5	2002
32.	CANCER/RADIOTHERAPIE	4	7	0,4	58	7	2016
33.	CLINICAL AND TRANSLATIONAL ONCOLOGY	4	7	0,174	63	8	2003
34.	CLINICAL ONCOLOGY	4	4	0,154	110	4	2000
35.	CLINICAL ORAL INVESTIGATIONS	4	4	0,211	67	4	2007
36.	FRONTIERS IN ORAL HEALTH	4	4	1	53	4	2022
37.	FRONTIERS IN PHARMACOLOGY	4	7	0,333	348	7	2014
38.	IN VIVO	4	5	0,444	57	5	2017
39.	INDIAN JOURNAL OF PALLIATIVE CARE	4	5	0,4	85	5	2016
40.	INTEGRATIVE CANCER THERAPIES	4	5	0,4	206	5	2016
41.	JOURNAL OF B.U.ON.	4	5	0,148	33	6	1999
42.	JOURNAL OF CANCER RESEARCH AND THERAPEUTICS	4	7	0,222	98	7	2008
43.	JOURNAL OF CLINICAL AND DIAGNOSTIC RESEARCH	4	5	0,364	241	5	2015
44.	JOURNAL OF PAIN AND SYMPTOM MANAGEMENT	4	4	0,211	153	4	2007
45.	MEDICAL ONCOLOGY	4	5	0,333	112	5	2014
46.	MEDICINA ORAL PATOLOGIA ORAL Y CIRUGIA BUCAL	4	6	0,364	116	6	2015
47.	MEDICINA ORAL, PATOLOGIA ORAL Y CIRUGIA BUCAL	4	5	0,25	60	5	2010

48.	ONCOTARGET	4	4	0,444	85	4	2017
49.	PEDIATRIC BLOOD AND CANCER	4	4	0,222	196	4	2008
50.	ANTI-CANCER DRUGS	3	3	0,273	60	3	2015

7. Negara Dengan Kontribusi Tertinggi (*Corresponding Author's Countries*)

No	Country	Articles	Articles %	SCP	MCP	MCP %
1.	CHINA	161	14	147	14	8,7
2.	USA	113	9,9	80	33	29,2
3.	JAPAN	99	8,6	95	4	4
4.	INDIA	97	8,5	88	9	9,3
5.	BRAZIL	69	6	53	16	23,2
6.	ITALY	57	5	43	14	24,6
7.	IRAN	40	3,5	38	2	5
8.	GERMANY	38	3,3	23	15	39,5
9.	UNITED KINGDOM	26	2,3	19	7	26,9
10.	KOREA	23	2	23	0	0
11.	SPAIN	23	2	20	3	13
12.	AUSTRALIA	22	1,9	13	9	40,9
13.	FRANCE	22	1,9	14	8	36,4
14.	TURKEY	22	1,9	21	1	4,5
15.	POLAND	21	1,8	20	1	4,8
16.	CANADA	18	1,6	14	4	22,2
17.	BELGIUM	12	1	10	2	16,7
18.	GREECE	12	1	8	4	33,3
19.	NETHERLANDS	10	0,9	8	2	20
20.	AUSTRIA	7	0,6	6	1	14,3
21.	EGYPT	7	0,6	6	1	14,3
22.	MALAYSIA	7	0,6	3	4	57,1
23.	THAILAND	7	0,6	7	0	0
24.	INDONESIA	6	0,5	6	0	0
25.	ISRAEL	6	0,5	3	3	50
26.	NEW ZEALAND	6	0,5	3	3	50
27.	HONG KONG	5	0,4	5	0	0
28.	SWEDEN	5	0,4	5	0	0
29.	SWITZERLAND	5	0,4	3	2	40
30.	ARGENTINA	4	0,3	3	1	25
31.	IRELAND	4	0,3	4	0	0
32.	PAKISTAN	4	0,3	3	1	25
33.	SAUDI ARABIA	4	0,3	1	3	75
34.	CHILE	3	0,3	1	2	66,7
35.	CROATIA	3	0,3	3	0	0
36.	DENMARK	3	0,3	2	1	33,3
37.	MEXICO	3	0,3	3	0	0
38.	SERBIA	3	0,3	2	1	33,3
39.	CZECH REPUBLIC	2	0,2	2	0	0
40.	NORWAY	2	0,2	1	1	50
41.	PHILIPPINES	2	0,2	2	0	0

42.	PORTUGAL	2	0,2	2	0	0
43.	BANGLADESH	1	0,1	1	0	0
44.	BOSNIA	1	0,1	1	0	0
45.	CYPRUS	1	0,1	1	0	0
46.	FINLAND	1	0,1	1	0	0
47.	HUNGARY	1	0,1	1	0	0
48.	IRAQ	1	0,1	1	0	0
49.	LITHUANIA	1	0,1	1	0	0
50.	NEPAL	1	0,1	1	0	0
51.	NIGERIA	1	0,1	0	1	100
52.	ROMANIA	1	0,1	1	0	0
53.	SINGAPORE	1	0,1	1	0	0

8. Penulis Paling Berpengaruh (*Authors' Local Impact by H-index*)

No	Author	h_index	g_index	m_index	TC	NP	PY_start
1.	EPSTEIN JB	21	26	0,656	3580	26	1994
2.	BOSSI P	13	15	1	968	15	2013
3.	MIGLIORATI CA	10	11	0,526	1452	11	2007
4.	SONIS ST	10	11	0,37	2306	11	1999
5.	BENSADOUN RJ	9	11	0,529	1626	11	2009
6.	DÖRR W	9	12	0,29	231	12	1995
7.	ELAD S	9	12	0,6	996	12	2011
8.	LALLA RV	9	11	0,5	1704	11	2008
9.	BRANDÃO TB	8	11	0,889	175	11	2017
10.	CHEN Y	7	14	0,467	361	14	2011
11.	LI H	7	7	0,5	166	7	2012
12.	LI Y	7	16	0,7	328	16	2016
13.	SANTOS-SILVA AR	7	13	0,467	193	14	2011
14.	WANG H	7	8	0,636	336	8	2015
15.	WANG J	7	10	0,778	146	10	2017
16.	WANG Y	7	11	1,167	140	13	2020
17.	ANTUNES HS	6	7	0,462	538	7	2013
18.	BARASCH A	6	6	0,6	560	6	2016
19.	BRZOZOWSKA A	6	6	0,75	78	6	2018
20.	MLAK R	6	6	0,75	78	6	2018
21.	NICOLATOU-GALITIS O	6	7	0,24	303	7	2001
22.	SOUTOME S	6	9	0,75	212	9	2018
23.	UMEDA M	6	10	0,75	216	10	2018
24.	VOKES EE	6	6	0,176	155	6	1992

25.	BHIDE SA	5	5	0,313	174	5	2010
26.	BOURHIS J	5	6	0,227	254	6	2004
27.	DE FELICE F	5	7	0,556	65	7	2017
28.	HAMAUCHI S	5	6	0,455	91	6	2015
29.	HARAF DJ	5	5	0,147	147	5	1992
30.	HARRINGTON KJ	5	5	0,313	174	5	2010
31.	KAWASHITA Y	5	7	0,625	126	7	2018
32.	KOULOULIAS V	5	7	0,2	193	7	2001
33.	LEE JH	5	5	0,179	258	5	1998
34.	LI J	5	8	0,714	297	8	2019
35.	LIU Z	5	6	0,833	132	6	2020
36.	LOPES MA	5	5	0,625	137	5	2018
37.	MURPHY B	5	6	0,263	431	6	2007
38.	NUTTING CM	5	5	0,313	174	5	2010
39.	OGAWA H	5	7	0,455	69	7	2015
40.	ONITSUKA T	5	5	0,455	60	5	2015
41.	ONOE T	5	5	0,455	60	5	2015
42.	ONOZAWA Y	5	5	0,455	65	5	2015
43.	PETERSON DE	5	7	0,185	906	7	1999
44.	PRADO-RIBEIRO AC	5	8	1	92	8	2021
45.	RADES D	5	6	0,357	117	6	2012
46.	ROSENTHAL DI	5	6	0,179	471	6	1998
47.	SAITO T	5	7	0,625	146	7	2018
48.	SUZUKI M	5	7	0,263	227	7	2007
49.	WEICHSELBAUM RR	5	5	0,114	140	5	1982
50.	YOKOTA T	5	6	0,455	91	6	2015

9. Produksi Publikasi Penulis dari Waktu ke Waktu (*Author's Production Over Time*)

No	Author	year	freq	TC	TCpY
1.	BENSADOUN RJ	2009	1	48	2,824
2.	BENSADOUN RJ	2011	1	377	25,133
3.	BENSADOUN RJ	2012	1	31	2,214
4.	BENSADOUN RJ	2016	2	371	37,1
5.	BENSADOUN RJ	2017	1	485	53,889
6.	BENSADOUN RJ	2019	1	263	37,571
7.	BENSADOUN RJ	2021	2	37	7,4
8.	BENSADOUN RJ	2022	2	14	3,5
9.	BOSSI P	2013	1	129	9,923
10.	BOSSI P	2014	2	47	3,917
11.	BOSSI P	2016	4	342	34,2
12.	BOSSI P	2019	2	351	50,143
13.	BOSSI P	2021	3	61	12,2
14.	BOSSI P	2022	1	13	3,25
15.	BOSSI P	2023	1	24	8
16.	BOSSI P	2024	1	1	0,5
17.	BRANDÃO TB	2017	1	8	0,889
18.	BRANDÃO TB	2018	1	59	7,375
19.	BRANDÃO TB	2020	1	10	1,667
20.	BRANDÃO TB	2021	5	69	13,8
21.	BRANDÃO TB	2022	1	28	7
22.	BRANDÃO TB	2023	1	0	0
23.	BRANDÃO TB	2024	1	1	0,5
24.	CHEN Y	2011	1	167	11,133
25.	CHEN Y	2015	1	4	0,364
26.	CHEN Y	2017	3	53	5,889
27.	CHEN Y	2020	1	61	10,167
28.	CHEN Y	2021	2	54	10,8
29.	CHEN Y	2022	3	19	4,75
30.	CHEN Y	2024	3	3	1,5
31.	DÖRR W	1995	1	43	1,387
32.	DÖRR W	2005	2	56	2,667
33.	DÖRR W	2006	1	17	0,85
34.	DÖRR W	2007	2	52	2,737
35.	DÖRR W	2014	1	26	2,167
36.	DÖRR W	2015	1	4	0,364
37.	DÖRR W	2016	1	19	1,9
38.	DÖRR W	2018	2	13	1,625
39.	DÖRR W	2019	1	1	0,143
40.	ELAD S	2011	1	38	2,533
41.	ELAD S	2013	1	129	9,923

42.	ELAD S	2016	3	422	42,2
43.	ELAD S	2017	1	36	4
44.	ELAD S	2019	2	351	50,143
45.	ELAD S	2021	1	5	1
46.	ELAD S	2022	1	13	3,25
47.	ELAD S	2024	1	2	1
48.	ELAD S	2025	1	0	0
49.	EPSTEIN JB	1994	1	96	3
50.	EPSTEIN JB	1996	1	28	0,933
51.	EPSTEIN JB	1997	1	38	1,31
52.	EPSTEIN JB	1999	1	327	12,111
53.	EPSTEIN JB	2002	1	181	7,542
54.	EPSTEIN JB	2003	2	1021	44,391
55.	EPSTEIN JB	2006	1	24	1,2
56.	EPSTEIN JB	2007	2	101	5,316
57.	EPSTEIN JB	2009	2	132	7,765
58.	EPSTEIN JB	2011	2	415	27,667
59.	EPSTEIN JB	2012	1	85	6,071
60.	EPSTEIN JB	2013	1	129	9,923
61.	EPSTEIN JB	2016	2	371	37,1
62.	EPSTEIN JB	2017	1	485	53,889
63.	EPSTEIN JB	2018	1	59	7,375
64.	EPSTEIN JB	2019	1	31	4,429
65.	EPSTEIN JB	2020	1	13	2,167
66.	EPSTEIN JB	2021	1	15	3
67.	EPSTEIN JB	2022	1	28	7
68.	EPSTEIN JB	2024	1	1	0,5
69.	EPSTEIN JB	2025	1	0	0
70.	LI Y	2016	2	190	19
71.	LI Y	2018	2	52	6,5
72.	LI Y	2020	1	12	2
73.	LI Y	2021	3	61	12,2
74.	LI Y	2022	2	8	2
75.	LI Y	2024	2	2	1
76.	LI Y	2025	4	3	3
77.	SANTOS-SILVA AR	2011	1	16	1,067
78.	SANTOS-SILVA AR	2018	1	59	7,375
79.	SANTOS-SILVA AR	2020	1	10	1,667
80.	SANTOS-SILVA AR	2021	5	63	12,6
81.	SANTOS-SILVA AR	2022	2	35	8,75
82.	SANTOS-SILVA AR	2023	2	4	1,333
83.	SANTOS-SILVA AR	2024	2	6	3
84.	WANG Y	2020	2	18	3
85.	WANG Y	2021	5	85	17

86.	WANG Y	2022	3	33	8,25
87.	WANG Y	2025	3	4	4

10. Penulis Paling Relevan Berdasarkan Jumlah Publikasi (*Most Relevant Authors*)

No	Author	Articles	Articles Fractionalized
1.	EPSTEIN JB	26	4,05
2.	LI Y	16	1,89
3.	BOSSI P	15	1,42
4.	CHEN Y	14	1,83
5.	SANTOS-SILVA AR	14	1,64
6.	WANG Y	13	1,78
7.	DÖRR W	12	3,37
8.	ELAD S	12	1,79
9.	BENSADOUN RJ	11	1,71
10.	BRANDÃO TB	11	1,07
11.	LALLA RV	11	2,15
12.	MIGLIORATI CA	11	0,86
13.	SONIS ST	11	4,65
14.	LIU J	10	1,21
15.	UMEDA M	10	1,25
16.	WANG J	10	1,65
17.	LIU Y	9	0,93
18.	SOUTOME S	9	1,19
19.	WU J	9	0,90
20.	JIANG X	8	0,90
21.	LI J	8	0,68
22.	PRADO-RIBEIRO AC	8	0,77
23.	WANG H	8	0,95
24.	ADEBERG S	7	0,56
25.	ANTUNES HS	7	0,70
26.	DE FELICE F	7	1,20
27.	HENKE M	7	0,73
28.	KAWASHITA Y	7	0,90
29.	KOULOULIAS V	7	0,56
30.	LI H	7	0,84
31.	ITSUDO K	7	0,56
32.	NICOLATOU-GALITIS O	7	0,76
33.	OGAWA H	7	0,72
34.	PETERSON DE	7	2,91
35.	RASTOGI M	7	0,87
36.	SAITO T	7	0,95

37.	SUZUKI M	7	0,68
38.	TOMBOLINI V	7	1,26
39.	YANG J	7	1,19
40.	ZHANG J	7	0,74
41.	BARASCH A	6	0,51
42.	BOURHIS J	6	0,43
43.	BRZOZOWSKA A	6	1,03
44.	DEBUS J	6	0,48
45.	FUNAHARA M	6	0,67
46.	HAMAUCHI S	6	0,53
47.	HELD T	6	0,48
48.	HIROTA M	6	0,47
49.	HU C	6	1,29
50.	IWAI T	6	0,47

11. Institusi yang Paling Aktif dalam Publikasi Penelitian (*Most Relevant Affiliations*)

No	Affiliation	Articles
1.	SICHUAN UNIVERSITY	33
2.	SHIZUOKA CANCER CENTER	30
3.	MASHHAD UNIVERSITY OF MEDICAL SCIENCES	24
4.	NATIONAL CANCER CENTER HOSPITAL EAST	23
5.	NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS	21
6.	TAIPEI MEDICAL UNIVERSITY	21
7.	BABOL UNIVERSITY OF MEDICAL SCIENCES	20
8.	HEIDELBERG UNIVERSITY HOSPITAL	20
9.	TEHRAN UNIVERSITY OF MEDICAL SCIENCES	18
10.	NAGASAKI UNIVERSITY GRADUATE SCHOOL OF BIOMEDICAL SCIENCES	17
11.	SHAHID BEHESHTI UNIVERSITY OF MEDICAL SCIENCES	17
12.	MEDICAL UNIVERSITY OF LUBLIN	16
13.	KAOHSIUNG MEDICAL UNIVERSITY	15
14.	NATIONAL CANCER CENTER HOSPITAL	15
15.	SUN YAT-SEN UNIVERSITY	15
16.	UNIVERSITY OF ROCHESTER MEDICAL CENTER	15
17.	UNIVERSITY OF WASHINGTON	15
18.	CENTRAL SOUTH UNIVERSITY	14
19.	SUN YAT-SEN UNIVERSITY CANCER CENTER	14
20.	TOKYO MEDICAL AND DENTAL UNIVERSITY	14
21.	MAYO CLINIC	13
22.	UNIVERSITY OF FLORIDA	13
23.	UNIVERSITY OF GRONINGEN	13
24.	GERMAN CANCER RESEARCH CENTER (DKFZ)	12

25.	MAZANDARAN UNIVERSITY OF MEDICAL SCIENCES	12
26.	UNIVERSITY OF CALIFORNIA	12
27.	UNIVERSITY OF SÃO PAULO	12
28.	MCGILL UNIVERSITY	11
29.	THE FIRST HOSPITAL OF JILIN UNIVERSITY	11
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36.	GUILAN UNIVERSITY OF MEDICAL SCIENCES	10
37.	KYUSHU UNIVERSITY	10
38.	MEDICAL UNIVERSITY OF VIENNA	10
39.	SAVEETHA UNIVERSITY	10
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41.	YOKOHAMA CITY UNIVERSITY GRADUATE SCHOOL OF MEDICINE	10
42.	AARHUS UNIVERSITY HOSPITAL	9
43.	HARVARD SCHOOL OF DENTAL MEDICINE	9
44.	MOFFITT CANCER CENTER	9
45.	NATIONAL YANG-MING UNIVERSITY	9
46.	RADBOUD UNIVERSITY MEDICAL CENTER	9
47.	SOUTHERN MEDICAL UNIVERSITY	9
48.	UNIVERSITAS PADJADJARAN	9
49.	UNIVERSITY OF BUENOS AIRES	9
50.	UNIVERSITY OF GOTHENBURG	9

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