

ORIGINAL RESEARCH ARTICLE

Knowledge mapping of radiofrequency ablation for hepatocellular carcinoma: Bibliometric analysis of the 100 most influential articles

Supplementary File
Table S1. The 100 most influential original articles in the field of radiofrequency ablation for hepatocellular carcinoma

Rank	Article title	Total citation count
1	A prospective randomized trial comparing percutaneous local ablative therapy and partial hepatectomy for small hepatocellular carcinoma	1,048
2	Small hepatocellular carcinoma: Treatment with radio-frequency ablation versus ethanol injection	1,018
3	Treatment of focal liver tumors with percutaneous radio-frequency ablation: Complications encountered in a multicenter study	968
4	Radiofrequency ablation of unresectable primary and metastatic hepatic malignancies—Results in 123 patients	863
5	Hepatocellular carcinoma: Radio-frequency ablation of medium and large lesions	830
6	Sustained complete response and complications rates after radiofrequency ablation of very early hepatocellular carcinoma in cirrhosis: Is resection still the treatment of choice?	799
7	Small hepatocellular carcinoma in cirrhosis: Randomized comparison of radio-frequency thermal ablation versus percutaneous ethanol injection	754
8	A randomized controlled trial of radiofrequency ablation with ethanol injection for small hepatocellular carcinoma	656
9	Early-stage hepatocellular carcinoma in patients with cirrhosis: Long-term results of percutaneous image-guided radiofrequency ablation	640
10	Percutaneous radiofrequency ablation for hepatocellular carcinoma—An analysis of 1,000 cases	631
11	Radiofrequency ablation of hepatocellular cancer in 110 patients with cirrhosis	602
12	Increased risk of tumor seeding after percutaneous radiofrequency ablation for single hepatocellular carcinoma	572
13	A randomized trial comparing radiofrequency ablation and surgical resection for HCC conforming to the Milan criteria	550
14	Global patterns of hepatocellular carcinoma management from diagnosis to death: the BRIDGE Study	539
15	Radiofrequency ablation improves prognosis compared with ethanol injection for hepatocellular carcinoma ≤ 4 cm	488
16	Treatment of intrahepatic malignancy with radiofrequency ablation—Radiologic-pathologic correlation	487
17	Radiofrequency ablation for hepatocellular carcinoma: 10-year outcome and prognostic factors	484
18	A randomized controlled trial of radiofrequency ablation and surgical resection in the treatment of small hepatocellular carcinoma	475
19	Randomised controlled trial comparing percutaneous radiofrequency thermal ablation, percutaneous ethanol injection, and percutaneous acetic acid injection to treat hepatocellular carcinoma of 3 cm or less	449
20	Tremelimumab in combination with ablation in patients with advanced hepatocellular carcinoma	420

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Table S1. (Continued)

Rank	Article title	Total citation count
21	Radiofrequency ablation of small hepatocellular carcinoma in cirrhotic patients awaiting liver transplantation—A prospective study	407
22	Small hepatocellular carcinoma: Comparison of radio-frequency ablation and percutaneous microwave coagulation therapy	407
23	Percutaneous radio-frequency thermal ablation of nonresectable hepatocellular carcinoma after occlusion of tumor blood supply	390
24	Influence of large peritumoral vessels on outcome of radiofrequency ablation of liver tumors	350
25	Evaluation of tumor response after locoregional therapies in hepatocellular carcinoma are response evaluation criteria in solid tumors reliable?	349
26	Initial response to percutaneous ablation predicts survival in patients with hepatocellular carcinoma	348
27	Adverse events during radiofrequency treatment of 582 hepatic tumors	332
28	Radiofrequency ablation with or without transcatheter arterial chemoembolization in the treatment of hepatocellular carcinoma: A prospective randomized trial	328
29	Radiofrequency ablation of hepatocellular carcinoma: Long-term results and prognostic factors in 235 western patients with cirrhosis	324
30	Outcomes after stereotactic body radiotherapy or radiofrequency ablation for hepatocellular carcinoma	308
31	Experience with more than 500 minimally invasive hepatic procedures	288
32	Radiofrequency ablation of hepatocellular carcinoma: Treatment success as defined by histologic examination of the explanted liver	288
33	Percutaneous radiofrequency ablation of hepatocellular carcinoma as a bridge to liver transplantation	267
34	Early and late complications after radiofrequency ablation of malignant liver tumors in 608 patients	264
35	Risk factors for local recurrence of small hepatocellular carcinoma tumors after a single session, single application of percutaneous radiofrequency ablation	264
36	Comparison of resection and ablation for hepatocellular carcinoma: A cohort study based on a Japanese nationwide survey	253
37	Percutaneous radiofrequency ablation of small hepatocellular carcinoma: Long-term results	252
38	Ten-year outcomes of percutaneous radiofrequency ablation as first-line therapy of early hepatocellular carcinoma: Analysis of prognostic factors	248
39	Percutaneous radiofrequency ablation for early-stage hepatocellular carcinoma as a first-line treatment: Long-term results and prognostic factors in a large single-institution series	245
40	Radiofrequency ablation for hepatocellular carcinoma in so-called high-risk locations	245
41	Radiofrequency ablation of hepatocellular carcinoma: Correlation between local tumor progression after ablation and ablative margin	244
42	Major complications after radio-frequency thermal ablation of hepatic tumors: Spectrum of imaging findings	242
43	Hepatic tumors treated with percutaneous radio-frequency ablation: CT and MR imaging follow-up	228
44	A prospective study on downstaging of hepatocellular carcinoma prior to liver transplantation	227
45	Radiofrequency ablation in 447 complex unresectable liver tumors: Lessons learned	227
46	Midterm outcomes in patients with intermediate-sized hepatocellular carcinoma	226

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Table S1. (Continued)

Rank	Article title	Total citation count
47	Survival comparison between surgical resection and radiofrequency ablation for patients in BCLC very early/early-stage hepatocellular carcinoma	225
48	Combined resection and radiofrequency ablation for advanced hepatic malignancies: Results in 172 patients	223
49	Surgical resection versus percutaneous radiofrequency ablation in the treatment of hepatocellular carcinoma on cirrhotic liver	206
50	Radiofrequency ablation versus ethanol injection for early hepatocellular carcinoma: A randomized controlled trial	201
51	Clinical short-term results of radiofrequency ablation in primary and secondary liver tumors	201
52	The minimal ablative margin of radiofrequency ablation of hepatocellular carcinoma (> 2 and < 5 cm) needed to prevent local tumor progression: 3D quantitative assessment using CT image fusion	200
53	Local recurrence after laparoscopic radiofrequency thermal ablation of hepatic tumors	200
54	Risk factors for the local recurrence of hepatocellular carcinoma after a single session of percutaneous radiofrequency ablation	199
55	Radiofrequency ablation of hepatocellular carcinoma as first-line treatment: Long-term results and prognostic factors in 162 patients with cirrhosis	197
56	Long-term effectiveness of resection and radiofrequency ablation for single hepatocellular carcinoma ≤ 3 cm. Results of a multicenter Italian survey	192
57	Comparing the outcomes of radiofrequency ablation and surgery in patients with a single small hepatocellular carcinoma and well-preserved hepatic function	192
58	Prognostic factors for survival in patients with early-intermediate hepatocellular carcinoma undergoing nonsurgical therapy: Comparison of Okuda, CLIP, and BCLC staging systems in a single Italian centre	191
59	Hepatocellular carcinoma confirmation, treatment, and survival in Surveillance, Epidemiology, and End Results Registries, 1992–2008	189
60	Large liver tumors: Protocol for radiofrequency ablation and its clinical application in 110 patients - Mathematic model, overlapping mode, and electrode placement process	187
61	Intrahepatic recurrence after percutaneous radiofrequency ablation of hepatocellular carcinoma: Analysis of the pattern and risk factors	186
62	Small hepatocellular carcinoma: Is radiofrequency ablation combined with transcatheter arterial chemoembolization more effective than radiofrequency ablation alone for treatment?	185
63	Hepatic resection versus radiofrequency ablation for very early-stage hepatocellular carcinoma: A Markov model analysis	184
64	Radiofrequency thermal ablation (RFA) after transarterial chemoembolization (TACE) as a combined therapy for unresectable non-early hepatocellular carcinoma (HCC)	179
65	Radiofrequency thermal ablation of hepatocellular carcinoma liver nodules can activate and enhance tumor-specific T-cell responses	176
66	Percutaneous microwave and radiofrequency ablation for hepatocellular carcinoma: a retrospective comparative study	176
67	Hepatocellular carcinoma treated with percutaneous radio-frequency ablation: Evaluation with follow-up multiphase helical CT	173
68	Treatment of hepatocellular carcinoma by percutaneous tumor ablation methods: Ethanol injection therapy and radiofrequency ablation	168
69	Radiofrequency ablation of liver tumors: Influence of technique and tumor size	162
70	Radiofrequency ablation combined with chemoembolization in hepatocellular carcinoma: Treatment response based on tumor size and morphology	161

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Table S1. (Continued)

Rank	Article title	Total citation count
71	Percutaneous ablation procedures in cirrhotic patients with hepatocellular carcinoma submitted to liver transplantation: Assessment of efficacy at explant analysis and of safety for tumor recurrence	159
72	Guidance and monitoring of radiofrequency liver tumor ablation with contrast-enhanced ultrasound	157
73	Radiofrequency ablation versus hepatic resection for the treatment of hepatocellular carcinomas 2 cm or smaller: A retrospective comparative study	155
74	Learning curve for radiofrequency ablation of liver tumors—Prospective analysis of initial 100 patients in a tertiary institution	151
75	Safety and efficacy of radiofrequency thermal ablation in advanced liver tumors	150
76	Risk factors and prognostic factors of local recurrence after radiofrequency ablation of hepatocellular carcinoma	149
77	Outcomes of curative treatment for hepatocellular cancer in nonalcoholic steatohepatitis versus hepatitis C and alcoholic liver disease	148
78	Percutaneous radiofrequency ablation of hepatic tumors during temporary venous occlusion	147
79	Stereotactic body radiotherapy vs. TACE or RFA as a bridge to transplant in patients with hepatocellular carcinoma. An intention-to-treat analysis	145
80	Real-Time US-CT/MRI Image Fusion for Guidance of Thermal Ablation of Liver Tumors Undetectable with US: Results in 295 Cases	144
81	Recurrent hepatocellular carcinoma treated with sequential transcatheter arterial chemoembolization and RF ablation versus RF ablation alone: A prospective randomized trial	142
82	Early-stage hepatocellular carcinoma: Radiofrequency ablation combined with chemoembolization versus hepatectomy	139
83	Risk of tumour seeding after percutaneous radiofrequency ablation for hepatocellular carcinoma	139
84	Multicenter randomized controlled trial of percutaneous cryoablation versus radiofrequency ablation in hepatocellular carcinoma	137
85	Percutaneous radiofrequency thermal ablation of hepatocellular carcinoma: A safe and effective bridge to liver transplantation	137
86	Surgical resection vs. percutaneous ablation for hepatocellular carcinoma: A preliminary report of the Japanese nationwide survey	136
87	Radiofrequency ablation of hepatic tumors: Increased tumor destruction with adjuvant liposomal doxorubicin therapy	136
88	Randomized clinical trial of hepatic resection versus radiofrequency ablation for early-stage hepatocellular carcinoma	134
89	Treatment of hepatocellular carcinoma with radiofrequency ablation: Radiologic-histologic correlation during follow-up periods	133
90	Enhancement of tumor-associated antigen-specific T cell responses by radiofrequency ablation of hepatocellular carcinoma	132
91	Analysis of recurrence pattern and its influence on survival outcome after radiofrequency ablation of hepatocellular carcinoma	130
92	A comparison of percutaneous cryosurgery and percutaneous radiofrequency for unresectable hepatic malignancies	130
93	Efficacy of microwave ablation versus radiofrequency ablation for the treatment of hepatocellular carcinoma in patients with chronic liver disease: A randomised controlled phase 2 trial	127
94	Repeated radiofrequency ablation for management of patients with cirrhosis with small hepatocellular carcinomas: A long-term cohort study	127

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Rank	Article title	Total citation count
95	Locoregional recurrences are frequent after radiofrequency ablation for hepatocellular carcinoma	124
96	FDG positron emission tomography in the surveillance of hepatic tumors treated with radiofrequency ablation	123
97	Percutaneous radiofrequency ablation of hepatocellular carcinoma abutting the diaphragm and gastrointestinal tracts with the use of artificial ascites: safety and technical efficacy in 143 patients	121
98	Complications of percutaneous radiofrequency ablation for hepatocellular carcinoma: Imaging spectrum and management	121
99	Significant long-term survival after radiofrequency ablation of unresectable hepatocellular carcinoma in patients with cirrhosis	119
100	Percutaneous thermal ablation of medium and large hepatocellular carcinoma long-term outcome and prognostic factors	118