

■ SUPPLEMENTAL DATA ■

Supplemental Appendix 1. List of articles with more than 60 citations sorted based on the number of citations (marked in bold)

No.	Node no. in the citation map	Author	Title	Journal	Bibliography	No. of citation
1	240	Allen RJ, Treece P	Deep inferior epigastric perforator flap for breast reconstruction.	Ann Plast Surg	1994;32:32-8	373
2	288	Gabriel SE, O'Fallon WM, Kurland LT, et al.	Risk of connective-tissue diseases and other disorders after breast implantation.	N Engl J Med	1994;330:1697-702	338
3	773	Blondeel PN	One hundred free DIEP flap breast reconstructions: a personal experience.	Br J Plast Surg	1999;52:104-11	195
4	561	Carlson GW, Bostwick J 3rd, Styblo TM, et al.	Skin-sparing mastectomy. Oncologic and reconstructive considerations.	Ann Surg	1997;225:570-5	171
5	1,190	Nahabedian MY, Momen B, Galdino G, et al.	Breast Reconstruction with the free TRAM or DIEP flap: patient selection, choice of flap, and outcome.	Plast Reconstr Surg	2002;110:466-75	155
6	500	Kroll SS, Schusterman MA, Reece GP, et al.	Choice of flap and incidence of free flap success.	Plast Reconstr Surg	1996;98:459-63	152
7	690	Slavin SA, Schnitt SJ, Duda RB, et al.	Skin-sparing mastectomy and immediate reconstruction: oncologic risks and aesthetic results in patients with early-stage breast cancer.	Plast Reconstr Surg	1998;102:49-62	149
8	576	Blondeel N, Vanderstraeten GG, Monstrey SJ, et al.	The donor site morbidity of free DIEP flaps and free TRAM flaps for breast reconstruction.	Br J Plast Surg	1997;50:322-30	143
9	380	Allen RJ, Tucker C Jr	Superior gluteal artery perforator free flap for breast reconstruction.	Plast Reconstr Surg	1995;95:1207-12	141
10	1,467	Gill PS, Hunt JP, Guerra AB, et al.	A 10-year retrospective review of 758 DIEP flaps for breast reconstruction.	Plast Reconstr Surg	2004;113:1153-60	139
11	153	Schusterman MA, Kroll SS, Weldon ME	Immediate breast reconstruction: why the free TRAM over the conventional TRAM flap?	Plast Reconstr Surg	1992;90:255-61	135
12	924	Kroll SS	Fat necrosis in free transverse rectus abdominis myocutaneous and deep inferior epigastric perforator flaps.	Plast Reconstr Surg	2000;106:576-83	134
13	162	Kroll SS, Baldwin B	A comparison of outcomes using three different methods of breast reconstruction.	Plast Reconstr Surg	1992;90:455-62	133
14	343	Schover LR, Yetman RJ, Tuason LJ, et al.	Partial mastectomy and breast reconstruction. A comparison of their effects on psychosocial adjustment, body image, and sexuality.	Cancer	1995;75:54-64	132
15	1,458	Baxter NN, Virnig BA, Durham SB, et al.	Trends in the treatment of ductal carcinoma in situ of the breast.	J Natl Cancer Inst	2004;96:443-8	131
16	309	Blondeel PN, Boeckx WD	Refinements in free flap breast reconstruction: the free bilateral deep inferior epigastric perforator flap anastomosed to the internal mammary artery.	Br J Plast Surg	1994;47:495-501	130
17	929	Rowland JH, Desmond KA, Meyerowitz BE, et al.	Role of breast reconstructive surgery in physical and emotional outcomes among breast cancer survivors.	J Natl Cancer Inst	2000;92:1422-9	129
18	249	Schusterman MA, Kroll SS, Miller MJ, et al.	The free transverse rectus abdominis musculocutaneous flap for breast reconstruction: one center's experience with 211 consecutive cases.	Ann Plast Surg	1994;32:234-41	128
19	62	Toth BA, Lappert P	Modified skin incisions for mastectomy: the need for plastic surgical input in preoperative planning.	Plast Reconstr Surg	1991;87:1048-53	128
20	637	Blondeel PN, Beyens G, Verhaeghe R, et al.	Doppler flowmetry in the planning of perforator flaps.	Br J Plast Surg	1998;51:202-9	127
21	816	Kroll SS, Khoo A, Singletary SE, et al.	Local recurrence risk after skin-sparing and conventional mastectomy: a 6-year follow-up.	Plast Reconstr Surg	1999;104:421-5	126
22	1,780	Masia J, Clavero JA, Larranaga JR, et al.	Multidetector-row computed tomography in the planning of abdominal perforator flaps.	J Plast Reconstr Aesthet Surg	2006;59:594-9	115
23	950	Blondeel PN, Arnstein M, Verstraete K, et al.	Venous congestion and blood flow in free transverse rectus abdominis myocutaneous and deep inferior epigastric perforator flaps.	Plast Reconstr Surg	2000;106:1295-9	115
24	377	Watterson PA, Bostwick J 3rd, Hester TR Jr, et al.	TRAM flap anatomy correlated with a 10-year clinical experience with 556 patients.	Plast Reconstr Surg	1995;95:1185-94	115
25	210	Elliott LF, Eskenazi L, Beegle PH Jr, et al.	Immediate TRAM flap breast reconstruction: 128 consecutive cases.	Plast Reconstr Surg	1993;92:217-27	113
26	1,329	Gerber B, Krause A, Reimer T, et al.	Skin-sparing mastectomy with conservation of the nipple-areola complex and autologous reconstruction is an oncologically safe procedure.	Ann Surg	2003;238:120-7	111

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Supplemental Appendix 1. List of articles with more than 60 citations sorted based on the number of citations (marked in bold)

No.	Node no. in the citation map	Author	Title	Journal	Bibliography	No. of citation
27	761	Hamdi M, Weiler-Mithoff EM, Webster MH	Deep inferior epigastric perforator flap in breast reconstruction: experience with the first 50 flaps.	Plast Reconstr Surg	1999;103:86-95	111
28	406	Kroll SS, Schusterman MA, Reece GP, et al.	Abdominal wall strength, bulging, and hernia after TRAM flap breast reconstruction.	Plast Reconstr Surg	1995;96:616-9	111
29	870	Spear SL, Onyewu C	Staged breast reconstruction with saline-filled implants in the irradiated breast: recent trends and therapeutic implications.	Plast Reconstr Surg	2000;105:930-42	110
30	436	Handel N, Jensen JA, Black Q, et al.	The fate of breast implants: a critical analysis of complications and outcomes.	Plast Reconstr Surg	1995;96:1521-33	108
31	1,039	Tran NV, Chang DW, Gupta A, et al.	Comparison of immediate and delayed free TRAM flap breast reconstruction in patients receiving postmastectomy radiation therapy.	Plast Reconstr Surg	2001;108:78-82	107
32	412	Evans GR, Schusterman MA, Kroll SS, et al.	Reconstruction and the radiated breast: is there a role for implants?	Plast Reconstr Surg	1995;96:1111-5	105
33	927	Alderman AK, Wilkins EG, Lowery JC, et al	Determinants of patient satisfaction in postmastectomy breast reconstruction.	Plast Reconstr Surg	2000;106:769-76	104
34	935	Al-Ghazal SK, Fallowfield L, Blamey RW	Comparison of psychological aspects and patient satisfaction following breast conserving surgery, simple mastectomy and breast reconstruction.	Eur J Cancer	2000;36:1938-43	103
35	933	Futter CM, Webster MH, Hagen S, et al.	A retrospective comparison of abdominal muscle strength following breast reconstruction with a free TRAM or DIEP flap.	Br J Plast Surg	2000;53:578-83	103
36	827	Simmons RM, Fish SK, Gayle L, et al.	Local and distant recurrence rates in skin-sparing mastectomies compared with non-skin-sparing mastectomies.	Ann Surg Oncol	1999;6:676-81	102
37	63	Lejour M, Dome M	Abdominal wall function after rectus abdominis transfer.	Plast Reconstr Surg	1991;87:1054-68	102
38	146	Kroll SS, Marchi M	Comparison of strategies for preventing abdominal-wall weakness after TRAM flap breast reconstruction.	Plast Reconstr Surg	1992;89:1045-51	101
39	220	Wortel CH, van Deventer SJ, Aarden LA, et al.	Interleukin-6 mediates host defense responses induced by abdominal surgery.	Surgery	1993;114:564-70	100
40	1,170	Alderman AK, Wilkins EG, Kim HM, et al.	Complications in postmastectomy breast reconstruction: two-year results of the Michigan Breast Reconstruction Outcome Study.	Plast Reconstr Surg	2002;109:2265-74	99
41	492	Wallace MS, Wallace AM, Lee J, et al.	Pain after breast surgery: a survey of 282 women.	Pain	1996;66:195-205	99
42	999	Krueger EA, Wilkins EG, Strawderman M, et al.	Complications and patient satisfaction following expander/implant breast reconstruction with and without radiotherapy.	Int J Radiat Oncol Biol Phys	2001;49:713-21	98
43	891	Chang DW, Reece GP, Wang B, et al.	Effect of smoking on complications in patients undergoing free TRAM flap breast reconstruction.	Plast Reconstr Surg	2000;105:2374-80	98
44	726	Newman LA, Kuerer HM, Hunt KK, et al.	Presentation, treatment, and outcome of local recurrence after skin-sparing mastectomy and immediate breast reconstruction.	Ann Surg Oncol	1998;5:620-6	98
45	399	Stefanek ME, Helzlsouer KJ, Wilcox PM, et al.	Predictors of and satisfaction with bilateral prophylactic mastectomy.	Prev Med	1995;24:412-9	98
46	808	Disa JJ, Cordeiro PG, Hidalgo DA	Efficacy of conventional monitoring techniques in free tissue transfer: an 11-year experience in 750 consecutive cases.	Plast Reconstr Surg	1999;104:97-101	96
47	510	Kroll SS, Schusterman MA, Reece GP, et al.	Timing of pedicle thrombosis and flap loss after free-tissue transfer.	Plast Reconstr Surg	1996;98:1230-3	95
48	46	Arnez ZM, Bajec J, Bardsley AF, et al.	Experience with 50 free TRAM flap breast reconstructions.	Plast Reconstr Surg	1991;87:470-8	93
49	1,159	Medina-Franco H, Vasconez LO, Fix RJ, et al.	Factors associated with local recurrence after skin-sparing mastectomy and immediate breast reconstruction for invasive breast cancer.	Ann Surg	2002;235:814-9	90
50	881	Chang DW, Wang B, Robb GL, et al.	Effect of obesity on flap and donor-site complications in free transverse rectus abdominis myocutaneous flap breast reconstruction.	Plast Reconstr Surg	2000;105:1640-8	88

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51	731	Delay E, Gounot N, Bouillot A, et al.	Autologous latissimus breast reconstruction: a 3-year clinical experience with 100 patients.	Plast Reconstr Surg	1998;102:1461-78	88
52	938	Wilkins EG, Cederna PS, Lowery JC, et al.	Prospective analysis of psychosocial outcomes in breast reconstruction: one-year postoperative results from the Michigan Breast Reconstruction Outcome Study.	Plast Reconstr Surg	2000;106:1014-25	85
53	1,242	Geddes CR, Morris SF, Neligan PC	Perforator flaps: evolution, classification, and applications.	Ann Plast Surg	2003;50:90-9	84
54	914	Tran NV, Evans GR, Kroll SS, et al.	Postoperative adjuvant irradiation: effects on transverse rectus abdominis muscle flap breast reconstruction.	Plast Reconstr Surg	2000;106:313-7	84
55	1,392	Blondeel PN, Van Landuyt KH, Monstrey SJ, et al.	The "Gent" consensus on perforator flap terminology: preliminary definitions.	Plast Reconstr Surg	2003;112:1378-83	82
56	552	Kroll SS, Schusterman MA, Tadjalli HE, et al.	Risk of recurrence after treatment of early breast cancer with skin-sparing mastectomy.	Ann Surg Oncol	1997;4:193-7	82
57	1,619	Nahabedian MY, Tsangaris T, Momen B	Breast reconstruction with the DIEP flap or the muscle-sparing (MS-2) free TRAM flap: is there a difference?	Plast Reconstr Surg	2005;115:436-44	81
58	1,103	Nahabedian MY, Dooley W, Singh N, et al.	Contour abnormalities of the abdomen after breast reconstruction with abdominal flaps: the role of muscle preservation.	Plast Reconstr Surg	2002;109:91-101	81
59	256	Kroll SS, Schusterman MA, Reece GP, et al.	Breast reconstruction with myocutaneous flaps in previously irradiated patients.	Plast Reconstr Surg	1994;93:460-9	81
60	732	Kroll SS, Gherardini G, Martin JE, et al.	Fat necrosis in free and pedicled TRAM flaps.	Plast Reconstr Surg	1998;102:1502-7	80
61	597	Williams JK, Carlson GW, Bostwick J 3rd, et al.	The effects of radiation treatment after TRAM flap breast reconstruction.	Plast Reconstr Surg	1997;100:1153-60	79
62	1,456	Cordeiro PG, Pusic AL, Disa JJ, et al.	Irradiation after immediate tissue expander/implant breast reconstruction: outcomes, complications, aesthetic results, and satisfaction among 156 patients.	Plast Reconstr Surg	2004;113:877-81	78
63	861	Al-Ghazal SK, Sully L, Fallowfield L, et al.	The psychological impact of immediate rather than delayed breast reconstruction.	Eur J Surg Oncol	2000;26:17-9	78
64	618	Spear SL, Majidian A	Immediate breast reconstruction in two stages using textured, integrated-valve tissue expanders and breast implants: a retrospective review of 171 consecutive breast reconstructions from 1989 to 1996.	Plast Reconstr Surg	1998;101:53-63	78
65	277	Mizgala CL, Hartrampf CR Jr, Bennett GK	Assessment of the abdominal wall after pedicled TRAM flap surgery: 5- to 7-year follow-up of 150 consecutive patients.	Plast Reconstr Surg	1994;93:988-1002	78
66	204	Schusterman MA, Kroll SS, Reece GP, et al.	Incidence of autoimmune disease in patients after breast reconstruction with silicone gel implants versus autogenous tissue: a preliminary report.	Ann Plast Surg	1993;31:1-6	77
67	205	Eberlein TJ, Crespo LD, Smith BL, et al.	Prospective evaluation of immediate reconstruction after mastectomy.	Ann Surg	1993;218:29-36	74
68	1,148	Lodder LN, Frets PG, Trijsburg RW, et al.	One year follow-up of women opting for presymptomatic testing for BRCA1 and BRCA2: emotional impact of the test outcome and decisions on risk management (surveillance or prophylactic surgery).	Breast Cancer Res Treat	2002;73:97-112	72
69	281	Slavin SA, Love SM, Goldwyn RM	Recurrent breast cancer following immediate reconstruction with myocutaneous flaps.	Plast Reconstr Surg	1994;93:1191-204	72
70	1,779	Alonso-Burgos A, Garcia-Tutor E, Bastarrika G, et al.	Preoperative planning of deep inferior epigastric artery perforator flap reconstruction with multislice-CT angiography: imaging findings and initial experience.	J Plast Reconstr Aesthet Surg	2006;59:585-93	71
71	1,066	Krueger JK, Rohrich RJ	Clearing the smoke: the scientific rationale for tobacco abstinence with plastic surgery.	Plast Reconstr Surg	2001;108:1063-73	70
72	501	Dupin CL, Allen RJ, Glass CA, et al.	The internal mammary artery and vein as a recipient site for free-flap breast reconstruction: a report of 110 consecutive cases.	Plast Reconstr Surg	1996;98:685-9	70

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73	110	Wagner DS, Michelow BJ, Hartrampf CR Jr	Double-pedicle TRAM flap for unilateral breast reconstruction.	Plast Reconstr Surg	1991;88:987-97	70
74	13	Gylbert L, Asplund O, Jurell G	Capsular contracture after breast reconstruction with silicone-gel and saline-filled implants: a 6-year follow-up.	Plast Reconstr Surg	1990;85:373-7	69
75	1,062	Arora NK, Gustafson DH, Hawkins RP, et al.	Impact of surgery and chemotherapy on the quality of life of younger women with breast carcinoma: a prospective study.	Cancer	2001;92:1288-98	68
76	615	Falconer C, Blomgren B, Johansson O, et al.	Different organization of collagen fibrils in stress-incontinent women of fertile age.	Acta Obstet Gynecol Scand	1998;77:87-94	68
77	408	Kroll SS, Coffey JA Jr, Winn RJ, et al.	A comparison of factors affecting aesthetic outcomes of TRAM flap breast reconstructions.	Plast Reconstr Surg	1995;96:860-4	68
78	903	Vandeweyer E, Deraemaeker R	Radiation therapy after immediate breast reconstruction with implants.	Plast Reconstr Surg	2000;106:56-8	67
79	1,161	Foster RD, Esserman LJ, Anthony JP, et al.	Skin-sparing mastectomy and immediate breast reconstruction: a prospective cohort study for the treatment of advanced stages of breast carcinoma.	Ann Surg Oncol	2002;9:462-6	66
80	437	Codner MA, Bostwick J 3rd, Nahai F, et al.	TRAM flap vascular delay for high-risk breast reconstruction.	Plast Reconstr Surg	1995;96:1615-22	66
81	1,541	Wei FC, Mardini S	Free-style free flaps.	Plast Reconstr Surg	2004;114:910-6	65
82	682	Paige KT, Bostwick J 3rd, Bried JT, et al.	A comparison of morbidity from bilateral, unipedicled and unilateral, unipedicled TRAM flap breast reconstructions.	Plast Reconstr Surg	1998;101:1819-27	65
83	160	Schuster RH, Kuske RR, Young VL, et al.	Breast reconstruction in women treated with radiation therapy for breast cancer: cosmesis, complications, and tumor control.	Plast Reconstr Surg	1992;90:445-52	65
84	657	Khoo A, Kroll SS, Reece GP, et al.	A comparison of resource costs of immediate and delayed breast reconstruction.	Plast Reconstr Surg	1998;101:964-8	64
85	144	Maxwell GP, Falcone PA	Eighty-four consecutive breast reconstructions using a textured silicone tissue expander.	Plast Reconstr Surg	1992;89:1022-34	64
86	25	Vinton AL, Traverso LW, Zehring RD	Immediate breast reconstruction following mastectomy is as safe as mastectomy alone.	Arch Surg	1990;125:1303-7	64
87	1,282	Harcourt DM, Rumsey NJ, Ambler NR, et al.	The psychological effect of mastectomy with or without breast reconstruction: a prospective, multicenter study.	Plast Reconstr Surg	2003;111:1060-8	63
88	946	Malata CM, McIntosh SA, Purushotham AD	Immediate breast reconstruction after mastectomy for cancer.	Br J Surg	2000;87:1455-72	62
89	815	Clough KB, Kroll SS, Audretsch W	An approach to the repair of partial mastectomy defects.	Plast Reconstr Surg	1999;104:409-20	62
90	458	Kroll SS, Evans GR, Reece GP, et al.	Comparison of resource costs between implant-based and TRAM flap breast reconstruction.	Plast Reconstr Surg	1996;97:364-72	62
91	187	Balch CM, Singletary SE, Bland KI.	Clinical decision-making in early breast cancer.	Ann Surg	1993;217:207-25	62
92	1,114	Simmons RM, Brennan M, Christos P, et al.	Analysis of nipple/areolar involvement with mastectomy: can the areola be preserved?	Ann Surg Oncol	2002;9:165-8	61
93	971	Morrow M, Scott SK, Menck HR, et al.	Factors influencing the use of breast reconstruction postmastectomy: a National Cancer Database study.	J Am Coll Surg	2001;192:1-8	61
94	413	Spear SL, Baker JL Jr.	Classification of capsular contracture after prosthetic breast reconstruction.	Plast Reconstr Surg	1995;96:1119-23	61
95	378	Banic A, Boeckx W, Greulich M, et al.	Late results of breast reconstruction with free TRAM flaps: a prospective multicentric study.	Plast Reconstr Surg	1995;95:1195-204	61
96	1,558	Chevray PM.	Breast reconstruction with superficial inferior epigastric artery flaps: a prospective comparison with TRAM and DIEP flaps.	Plast Reconstr Surg	2004;114:1077-83	60
97	1,154	Rogers NE, Allen RJ	Radiation effects on breast reconstruction with the deep inferior epigastric perforator flap.	Plast Reconstr Surg	2002;109:1919-24	60
98	1,009	Nissen MJ, Swenson KK, Ritz LJ, et al.	Quality of life after breast carcinoma surgery: a comparison of three surgical procedures.	Cancer	2001;91:1238-46	60
99	854	Brandberg Y, Malm M, Blomqvist L	A prospective and randomized study, "SVEA," comparing effects of three methods for delayed breast reconstruction on quality of life, patient-defined problem areas of life, and cosmetic result.	Plast Reconstr Surg	2000;105:66-74	60