

## CURRICULUM VITAE

Name Isao Koshima  
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Isao Koshima is Professor and Chief of International Center for Lymphedema, Hiroshima Univ. Hospital. He was a Senior consultant of National Univ. of Singapore (2009-10), Vice Director of Tokyo University Hospital (2011-13), Visiting Professor, Univ of Barcelona (2012-), Prof Emeritus The Univ. Tokyo, and honored ASRM Bunck lecture 2014, and ASPS Maliniac lecture 2014,

1976: Graduated from Tottori University School of Medicine, 1976-77: Junior Resident, General Surg of Tokyo Women's Med School, 1977-83: Senior and Chief Resident, Plast Reconstr Surg of Tokyo University, 1983-89: Assist Prof. Plast Reconstr Surg of Tsukuba Univ, 1989-2000: Associet Prof. Plast Reconstr Surg of Kawasaki Medical School, .1996-97: Harvard Med School, 2000-: Prof. and Chief, Plast Reconstr Surg, Okayama Univ., 2004-: Prof and Chief, Plast Reconstr Surgery, The University of Tokyo, 2009-10: Senior consultant of National Univ. of Singapore, 2011-13: Vice Director of Tokyo University Hospital, 2012-: Visiting Professor, Univ of Barcelona, 2014 ASRM Bunck lecture, 2014 ASPS Maliniac lecture, Societies: International Society of Reconstructive Microsurgery, Founding member International Course of Perf Flaps since 1997, Founding member The Course of European Supermicrosurgery" since 2011 , etc., Speciality: lymphatic surgery, vascularized nerve flaps, perforator flaps, supermicrosurgery, facial reanimation, chimera flaps head and neck and hand, flow-through flaps for extremity, SCIP flap penile reconstr., ect.

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### Education and Training

- 1.1976: Graduated from Tottori University School of Medicine.
- 2.1976-77: Junior Resident, Department of General Surgery of Tokyo Women's Medical School.
- 3.1977-83: Senior and Chief Resident, Department of Plastic and Reconstructive Surgery of Tokyo University.
- 4.1983-89: Assistant Professor, Department of Plastic and Reconstructive Surgery of Tsukuba University
- 5.1989-2000: Associate Professor, Department of Plastic and Reconstructive Surgery of Kawasaki Medical School
- 6.1996-97: Harvard Medical School (Beth Israel Hp.& New England Deconess Hp., Brigam Women Hp., Boston Children Hp., & MGH Hp.),
- 7.2000-: Professor and Chief, Department of Plastic and Reconstructive Surgery, Okayama University Medical School
8. 2004-: Professor and Chief, Department of Plastic and Reconstructive Surgery, Graduate School of Medicine, University of Tokyo,
9. 2009-10: Senior consultant of National Univ. of Singapore
10. 2011-13: Vice Director of Tokyo University Hospital
11. 2012-: Visiting Professor, Univ of Barcelona
12. 2017-: Prof & Chief International Center for Lymphedema (ICL), Hiroshima Univ Hospital
13. 2017: Prof Emeritus The Univ Tokyo, President of the World Socie Reconstr Microsurg (WSRM)  
President of the International Course on Supermicrosurgery (ICSM)  
2014 ASRM Bunck lecture

2015 ASPS Maliniac lecture

Isao Koshima, MD



Invited Live Surgery in Medical Meeting in Foreign Countries

32 hospitals in 20 countries since 1997

Foreign visitors to the Univ. of Tokyo: 163 (2006-2012)

Societies:

Japanese Society of Plastic and Reconstructive Surgery

International Society of Plastic, Reconstructive and Aesthetic Surgery

Japanese Society of Reconstructive Microsurgery

International Society of Reconstructive Microsurgery

Founding member of "The International Course of Perforator Flaps" since 1997

Founding member of "The Course of Asia Pacific Supermicrosurgery" since 2007

Founding member of "The Course of European Supermicrosurgery" since 2011

Japanese Society of Head and Neck Cancer

Japanese Society of Hand Surgery

International Society of Hand Surgery

Japanese Society of Lymphology

Specialities:

Surgery: Personally over 3000 free tissue transfers since 1980

Publication: 200 original English papers

1. Free tissue transfers with supermicrosurgery: First reporter of various free and pedicle perforator flaps (DIEP flap, ALT chimeric flap, GAP flap, TFL perforator flap, medial plantar perforator flap, SCIP flap etc.)
2. Reconstructions for Extremities: flow-through flaps for ischemic legs, chimeric flaps using vascularized bone grafts, vascularized muscle transfers, & vascularized nerve grafts, island perforator flaps,.
3. Head and Neck Reconstructions after cancer ablation: First advocator for the use of ALT flap, chimeric combined tissue transfers, one-stage reconstruction of established facial paralysis with muscle transfers (rectus femoris, rectus abdominis muscle), vascularized cross face nerve graft, Free SCIP adiposal flap for facial synkinesis, fascicular turnover flap for facial nerve gap, tracheal reconstruction with vascularized auricular concha flap, upper eyelid reconstruction with auricular rim flap
4. Hand: Flow-through flap transfer, island perforator flaps, free vascularized toe tip transfers for fingertip reconstruction, free vascularized nerve graft (experimental and clinical works), degeneration and regeneration of Pacinian corpuscles (experimental works)
5. Penis and urethral reconstruction: Free radial forearm osteocutaneous flap with vascul. appendix transfer. Chimeric SCIP flap-iliac bone flap for urethropepne reconstruction,.
6. Breast: Reconstructions with free DIEP adiposal flap & free paraumbilical perforator adiposal flap
7. Hemifacial microsomia or hemifacial atrophy: free DIEP adiposal flap & paraumbilical perforator adiposal flap (intraoral approach)
8. Lymphedema: 1<sup>st</sup> advocator of (prophylactic) lymphaticovenular anastomosis for lymphedema under local

anesthesia, Vascularized lymphatics and lymphnode transfers for severe edema, ultrastructural changes of human lymphatics.

9. Abdomen: dynamic reconstruction using innervated rectus femoris muscle.

10. 1<sup>st</sup> advocator of GAP flap for sacral decubitus,

#### Invited live surgery

Two times at Gent Univ. (Belgium), Louisiana University (New Orleans USA), (Munick, Germany), Kueit National Hospital, 3 times in Chang-Gung Memorial University (Taiwan), San Paulo University (Brazil), six times at San Pau Hospital (Barcelona Univ.), Gazi University Hospital (Ankara, Turkey), Ganga Hospital (Koinbatour India), Three times in China-Japan Friendship Hospital (Beitin China), Five times in National Univ of Singapore, Zuwall City Hospital (Zuwall Holland), Siberia University (Tomsk, Russia), Mahidon University (Bangkok, Tailand), Mexico National Univ. Hospital (Mexico City), Asan Univ. Hospital (Seoul, Korea), Right Hospital (Chennai India), Univ of Helsinki (Finland), Tri-army Univ. Hospital (Taipei), New York University(USA).

#### References

1: Mihara M, Hara H, Araki J, Kikuchi K, Narushima M, Yamamoto T, Iida T, Yoshimatsu H, Murai N, Mitsui K, Okitsu T, Koshima I. Indocyanine Green (ICG) Lymphography Is Superior to Lymphoscintigraphy for Diagnostic Imaging of Early Lymphedema of the Upper Limbs. PLoS One. 2012;7(6):e38182. Epub 2012 Jun 4. PubMed PMID: 22675520; PubMed Central PMCID: PMC3366958.

2: Mihara M, Kisu I, Hara H, Iida T, Araki J, Shim T, Narushima M, Yamamoto T, Moriguchi H, Kato Y, Tonsho M, Banno K, Aoki D, Sukanuma N, Kagawa N, Takehara Y, Kato O, Koshima I. Uterine autotransplantation in cynomolgus macaques: the first case of pregnancy and delivery. Hum Reprod. 2012 May 30. [Epub ahead of print] PubMed PMID: 22647448.

3: Yoshimatsu H, Yamamoto T, Narushima M, Iida T, Koshima I. Perforator-bridged lymphaticovenular anastomosis. J Plast Reconstr Aesthet Surg. 2012 May 21. [Epub ahead of print] PubMed PMID: 22622508.

4: Yamamoto K, Hojo H, Koshima I, Chung UI, Ohba S. Famotidine suppresses osteogenic differentiation of tendon cells in vitro and pathological calcification of tendon in vivo. J Orthop Res. 2012 May 16. doi: 10.1002/jor.22146. [Epub ahead of print] PubMed PMID: 22592911.

5: Mihara M, Hara H, Hayashi Y, Iida T, Araki J, Yamamoto T, Todokoro T, Narushima M, Murai N, Koshima I. Upper-Limb Lymphedema Treated Aesthetically with Lymphaticovenous Anastomosis using Indocyanine Green Lymphography and Noncontact Vein Visualization. J Reconstr Microsurg. 2012 Jun;28(5):327-32. Epub 2012 Apr 19. PubMed PMID: 22517571.

6: Yoshimatsu H, Yamamoto T, Seki Y, Narushima M, Iida T, Koshima I. A new device expanding operability of fingertip replantation: Subzone 1 fingertip replantation assisted by non-enhanced angiography in a 2-year-old boy. J Plast Reconstr

Aesthet Surg. 2012 Apr 16. [Epub ahead of print] PubMed PMID: 22512940.

7: Iida T, Mihara M, Narushima M, Yoshimatsu H, Hara H, Koshima I. Preexcisional artery reconstruction: A new strategy in multiple hepatic artery reconstruction for reducing ischemic injury of the liver. *Microsurgery*. 2012 Apr 18. doi: 10.1002/micr.21986. [Epub ahead of print] PubMed PMID: 22511322.

8: Mihara M, Hara H, Murai N, Todokoro T, Iida T, Narushima M, Koshima I. Severe lymphedema caused by repeated self-injury. *Lymphology*. 2011 Dec;44(4):183-6. PubMed PMID: 22458120.

9: Mihara M, Iida T, Hara H, Hayashi Y, Yamamoto T, Narushima M, Hayami S, Sawamoto N, Naito M, Koshima I. Autologous groin lymph node transfer for "sentinel lymph network" reconstruction after head-and-neck cancer resection and neck lymph node dissection: a case report. *Microsurgery*. 2012 Feb;32(2):153-7. PubMed PMID: 22389902.

10: Hara H, Mihara M, Iida T, Narushima M, Koshima I. Blood glucose measurement in flap monitoring for salvage of flaps from venous thrombosis. *Plast Reconstr Surg*. 2012 Mar;129(3):587e-589e. PubMed PMID: 22374034.

11: Mundinger GS, Narushima M, Hui-Chou HG, Jones LS, Ha JS, Shipley ST, Drachenberg CB, Dorafshar AH, Koshima I, Bartlett ST, Barth RN, Rodriguez ED. Infrared fluorescence imaging of lymphatic regeneration in nonhuman primate facial vascularized composite allografts. *Ann Plast Surg*. 2012 Mar;68(3):314-9. PubMed PMID: 22356782.

12: Mihara M, Hayashi Y, Iida T, Narushima M, Koshima I. Instruments for supermicrosurgery in Japan. *Plast Reconstr Surg*. 2012 Feb;129(2):404e-406e. PubMed PMID: 22286490.

13: Mihara M, Hara H, Narushima M, Hayashi Y, Yamamoto T, Oshima A, Kikuchi K, Murai N, Koshima I. Lower limb lymphedema treated with lymphatico-venous anastomosis based on pre- and intraoperative icg lymphography and non-contact vein visualization: A case report. *Microsurgery*. 2012 Mar;32(3):227-30. doi: 10.1002/micr.20977. Epub 2012 Jan 20. PubMed PMID: 22262581.

14: Iida T, Mihara M, Narushima M, Todokoro T, Hara H, Yoshimatsu H, Koshima I, Kadono T. Dynamic Reconstruction of Full-Thickness Abdominal Wall Defects Using Free Innervated Vastus Lateralis Muscle Flap Combined With Free Anterolateral Thigh Flap. *Ann Plast Surg*. 2012 Jan 5. [Epub ahead of print] PubMed PMID: 22214798.

15: Mihara M, Hayashi Y, Hara H, Todokoro T, Koshima I, Murai N. Lymphatic-venous anastomosis for the radical cure of a large pelvic lymphocyst. *J Minim Invasive*

Gynecol. 2012 Jan-Feb;19(1):125-7. PubMed PMID: 22196262.

16: Ito S, Shimohata N, Iwanaga S, Ito W, Ohba M, Mochizuki M, Nakagawa T, Suzuki S, Sasaki N, Koshima I, Chung UI. Prevention of intubation-induced mucosal damage using a tube coated with 2-methacryloyloxyethyl phosphorylcholine polymer. *Eur J Anaesthesiol.* 2012 Feb;29(2):100-4. PubMed PMID: 22183157.

17: Hara H, Mihara M, Iida T, Narushima M, Todokoro T, Yamamoto T, Koshima I. Blood glucose measurement for flap monitoring to salvage flaps from venous thrombosis. *J Plast Reconstr Aesthet Surg.* 2012 May;65(5):616-9. Epub 2011 Dec 8. PubMed PMID: 22153849.

18: Mihara M, Iida T, Hara H, Hayashi Y, Yamamoto T, Mitsunaga N, Todokoro T, Uchida G, Koshima I. Reconstruction of the larynx and aryepiglottic fold using a free radial forearm tendocutaneous flap after partial laryngopharyngectomy: a case report. *Microsurgery.* 2012 Jan;32(1):50-4. doi: 10.1002/micr.20940. Epub 2011 Nov 28. PubMed PMID: 22121068.

19: Suzuki S, Iwamoto T, Koshima I. Adipofascial turnover perforator flap for dorsal hand reconstruction based on both the posterior interosseous artery and radial artery. *J Hand Surg Eur Vol.* 2012 Feb;37(2):178-80. Epub 2011 Nov 24. PubMed PMID: 22117016.

20: Iida T, Mihara M, Narushima M, Koshima I. A simple method for preventing pharyngocutaneous fistula after pharyngolaryngectomy using a mesenteric turnover flap. *J Plast Reconstr Aesthet Surg.* 2012 Jun;65(6):830-1. Epub 2011 Nov 21. PubMed PMID: 22100895.

21: Araki J, Mihara M, Narushima M, Iida T, Sato T, Koshima I. Vascularized anal autotransplantation model in rats: preliminary report. *Transplant Proc.* 2011 Nov;43(9):3552-6. PubMed PMID: 22099840.

22: Mihara M, Murai N, Hayashi Y, Hara H, Iida T, Narushima M, Todokoro T, Uchida G, Yamamoto T, Koshima I. Using indocyanine green fluorescent lymphography and lymphatic-venous anastomosis for cancer-related lymphedema. *Ann Vasc Surg.* 2012 Feb;26(2):278.e1-6. Epub 2011 Nov 12. PubMed PMID: 22079465.

23: Suzuki S, Koshima I. Digital artery perforator flap for reconstruction of fingertip after resection of melanoma in situ. *Hand Surg.* 2011;16(3):395-8. PubMed PMID: 22072483.

24: Iida T, Mihara M, Narushima M, Koshima I. A sensate superficial circumflex iliac perforator flap based on lateral cutaneous branches of the intercostal nerves. *J Plast Reconstr Aesthet Surg.* 2012 Apr;65(4):538-40. Epub 2011 Sep 22. PubMed PMID: 21943679.

25: Yamamoto T, Matsuda N, Doi K, Oshima A, Yoshimatsu H, Todokoro T, Ogata F, Mihara M, Narushima M, Iida T, Koshima I. The earliest finding of indocyanine green lymphography in asymptomatic limbs of lower extremity lymphedema patients secondary to cancer treatment: the modified dermal backflow stage and concept of subclinical lymphedema. *Plast Reconstr Surg*. 2011 Oct;128(4):314e-321e. PubMed PMID: 21921744.

26: Narushima M, Yamasoba T, Iida T, Yamamoto T, Yoshimatsu H, Hara H, Oshima A, Todokoro T, Kikuchi K, Araki J, Mihara M, Koshima I. Pure skin perforator flap for microtia and congenital aural atresia using supermicrosurgical techniques. *J Plast Reconstr Aesthet Surg*. 2011 Dec;64(12):1580-4. Epub 2011 Sep 7. PubMed PMID: 21900061.

27: Mihara M, Kisu I, Hara H, Iida T, Yamamoto T, Araki J, Hayashi Y, Moriguchi H, Narushima M, Banno K, Suganuma N, Aoki D, Koshima I. Uterus autotransplantation in cynomolgus macaques: intraoperative evaluation of uterine blood flow using indocyanine green. *Hum Reprod*. 2011 Nov;26(11):3019-27. Epub 2011 Sep 6. PubMed PMID: 21896548.

28: Hara H, Mihara M, Narushima M, Yamamoto T, Todokoro T, Araki J, Iida T, Koshima I, Shim TW. Flap salvage following postoperative venous thrombosis diagnosed by blood glucose measurement in the flaps. *Eplasty*. 2011;11:e28. Epub 2011 Jun 22. PubMed PMID: 21734920; PubMed Central PMCID: PMC3124330.

29: Yamamoto T, Yamamoto N, Hara H, Mihara M, Narushima M, Koshima I. Upper Extremity Lymphedema Index: A Simple Method for Severity Evaluation of Upper Extremity Lymphedema. *Ann Plast Surg*. 2011 Jul 5. [Epub ahead of print] PubMed PMID: 21734534.

30: Mihara M, Murai N, Hayashi Y, Moriguchi H, Iida T, Hara H, Yamamoto T, Narushima M, Uchida G, Koshima I. Popliteal lymphatico-venous anastomosis for lower limb lymphedema to allow patients to adopt the traditional Japanese "seiza" sitting position. *J Plast Reconstr Aesthet Surg*. 2011 Nov;64(11):1544-6. Epub 2011 Jun 24. PubMed PMID: 21704577.

31: Suzuki S, Tanaka H, Koshima I. Reconstruction of cerebrospinal fluid leakage on the occipital region of the head with the pedicled pectoralis major myocutaneous flap. *Plast Reconstr Surg*. 2011 Jul;128(1):17e-8e. PubMed PMID: 21701296.

32: Yamamoto T, Iida T, Matsuda N, Kikuchi K, Yoshimatsu H, Mihara M, Narushima M, Koshima I. Indocyanine green (ICG)-enhanced lymphography for evaluation of facial lymphoedema. *J Plast Reconstr Aesthet Surg*. 2011 Nov;64(11):1541-4. Epub 2011 Jun 17. PubMed PMID: 21683666.

33: Yamamoto T, Yamamoto N, Doi K, Oshima A, Yoshimatsu H, Todokoro T, Ogata F, Mihara M, Narushima M, Iida T, Koshima I. Indocyanine green-enhanced lymphography for upper extremity lymphedema: a novel severity staging system using dermal backflow patterns. *Plast Reconstr Surg*. 2011 Oct;128(4):941-7. PubMed PMID: 21681123.

34: Narushima M, Yamamoto T, Yamamoto Y, Hirai R, Mihara M, Koshima I. Lateral intercostal artery perforator-based reversed thoracodorsal artery flap for reconstruction of a chronic radiation ulcer of the lower back wall. *Ann Plast Surg*. 2011 Oct;67(4):352-6. PubMed PMID: 21629107.

35: Hara H, Koshima I, Okuda I, Narushima M, Mihara M, Todokoro T. Assessment of configuration of thoracic duct using magnetic resonance thoracic ductography in idiopathic lymphedema. *Ann Plast Surg*. 2012 Mar;68(3):300-2. PubMed PMID: 21629101.

36: Narushima M, Mihara M, Yamamoto Y, Iida T, Koshima I, Matsumoto D. Hair Transplantation for Reconstruction of Scalp Defects Using Artificial Dermis. *Dermatol Surg*. 2011 May 17. doi: 10.1111/j.1524-4725.2011.02025.x. [Epub ahead of print] PubMed PMID: 21585600.

37: Tachi K, Furukawa KS, Koshima I, Ushida T. New microvascular anastomotic ring-coupling device using negative pressure. *J Plast Reconstr Aesthet Surg*. 2011 Sep;64(9):1187-93. Epub 2011 May 8. PubMed PMID: 21550865.

38: Yamamoto T, Narushima M, Kikuchi K, Yoshimatsu H, Todokoro T, Mihara M, Koshima I. Lambda-shaped anastomosis with intravascular stenting method for safe and effective lymphaticovenular anastomosis. *Plast Reconstr Surg*. 2011 May;127(5):1987-92. PubMed PMID: 21532425.

39: Yamamoto T, Narushima M, Doi K, Oshima A, Ogata F, Mihara M, Koshima I, Mundinger GS. Characteristic indocyanine green lymphography findings in lower extremity lymphedema: the generation of a novel lymphedema severity staging system using dermal backflow patterns. *Plast Reconstr Surg*. 2011 May;127(5):1979-86. PubMed PMID: 21532424.

40: Mihara M, Hayashi Y, Murai N, Moriguchi H, Iida T, Hara H, Todokoro T, Narushima M, Uchida G, Koshima I. Regional diagnosis of lymphoedema and selection of sites for lymphaticovenular anastomosis using elastography. *Clin Radiol*. 2011 Aug;66(8):715-9. Epub 2011 Apr 23. PubMed PMID: 21524415.

41: Kikuchi K, Yoshimatsu H, Mihara M, Narushima M, Iida T, Koshima I. Vascularized nerve flap for spinal cord repair-a preliminary study. *Eplasty*. 2011 Mar 16;11:e13. PubMed PMID: 21436891; PubMed Central PMCID: PMC3060049.

42: Kobayashi N, Ueki K, Okazaki Y, Iwane A, Kubota N, Ohsugi M, Awazawa M, Kobayashi M, Sasako T, Kaneko K, Suzuki M, Nishikawa Y, Hara K, Yoshimura K, Koshima I, Goyama S, Murakami K, Sasaki J, Nagai R, Kurokawa M, Sasaki T, Kadowaki T. Blockade of class IB phosphoinositide-3 kinase ameliorates obesity-induced inflammation and insulin resistance. *Proc Natl Acad Sci U S A*. 2011 Apr 5;108(14):5753-8. Epub 2011 Mar 21. PubMed PMID: 21436039; PubMed Central PMCID: PMC3078379.

43: Yamamoto T, Matsuda N, Todokoro T, Yoshimatsu H, Narushima M, Mihara M, Uchida G, Koshima I. Lower extremity lymphedema index: a simple method for severity evaluation of lower extremity lymphedema. *Ann Plast Surg*. 2011 Dec;67(6):637-40. PubMed PMID: 21407058.

44: Mihara M, Uchida G, Hara H, Hayashi Y, Moriguchi H, Narushima M, Iida T, Yamamoto T, Koshima I. Lymphaticovenous anastomosis for facial lymphoedema after multiple courses of therapy for head-and-neck cancer. *J Plast Reconstr Aesthet Surg*. 2011 Sep;64(9):1221-5. Epub 2011 Mar 5. PubMed PMID: 21377943.

45: Iida T, Mihara M, Narushima M, Koshima I, Asakage T, Kawai K. Rapidly enlarging orbital tumor in a facial fibrous dysplasia lesion. *Ann Plast Surg*. 2012 Jan;68(1):49-51. PubMed PMID: 21372666.

46: Sugawara Y, Tamura S, Kaneko J, Iida T, Mihara M, Makuuchi M, Koshima I, Kokudo N. Single artery reconstruction in left liver transplantation. *Surgery*. 2011 Jun;149(6):841-5. Epub 2011 Feb 12. PubMed PMID: 21316724.

47: Pignatti M, Ogawa R, Hallock GG, Mateev M, Georgescu AV, Balakrishnan G, Ono S, Cubison TC, D'Arpa S, Koshima I, Hyakusoku H. The "Tokyo" consensus on propeller flaps. *Plast Reconstr Surg*. 2011 Feb;127(2):716-22. PubMed PMID: 21285776.

48: Mundinger GS, Narushima M, Koshima I. Pedicled perforator flaps: a new principle in reconstructive surgery. *Plast Reconstr Surg*. 2010 Dec;126(6):2295-6; author reply 2296. PubMed PMID: 21124195.

49: Yamamoto T, Koshima I, Yoshimatsu H, Narushima M, Miahara M, Iida T. Simultaneous multi-site lymphaticovenular anastomoses for primary lower extremity and genital lymphoedema complicated with severe lymphorrhea. *J Plast Reconstr Aesthet Surg*. 2011 Jun;64(6):812-5. Epub 2010 Nov 18. PubMed PMID: 21093398.

50: Koshima I, Yamamoto T, Narushima M, Mihara M, Iida T. Perforator flaps and supermicrosurgery. *Clin Plast Surg*. 2010 Oct;37(4):683-9, vii-iii. PubMed PMID: 20816523.



51: Chim H, Drolet B, Duffy K, Koshima I, Gosain AK. Vascular anomalies and lymphedema. *Plast Reconstr Surg.* 2010 Aug;126(2):55e-69e. Review. PubMed PMID: 20679788.

52: Rozen WM, Grinsell D, Koshima I, Ashton MW. Dominance between angiosome and perforator territories: a new anatomical model for the design of perforator flaps. *J Reconstr Microsurg.* 2010 Oct;26(8):539-45. Epub 2010 Jul 16. PubMed PMID: 20640977.

53: Koshima I, Narushima M, Mihara M, Yamamoto Y, Iida T, Uchida G. Prophylactic cross-face nerve flap for muscle protection prior to facial palsy. *J Plast Reconstr Aesthet Surg.* 2011 Feb;64(2):185-8. Epub 2010 Jun 26. PubMed PMID: 20579947.

54: Narushima M, Mihara M, Yamamoto Y, Iida T, Koshima I, Munding GS. The intravascular stenting method for treatment of extremity lymphedema with multiconfiguration lymphaticovenous anastomoses. *Plast Reconstr Surg.* 2010 Mar;125(3):935-43. PubMed PMID: 20195120.

55: Hong JP, Koshima I. Using perforators as recipient vessels (supermicrosurgery) for free flap reconstruction of the knee region. *Ann Plast Surg.* 2010 Mar;64(3):291-3. PubMed PMID: 20179475.

56: Koshima I, Narushima M, Mihara M, Uchida G, Nakagawa M. Cross-face nerve transfer for established trigeminal branch II palsy. *Ann Plast Surg.* 2009 Dec;63(6):621-3. PubMed PMID: 19934846.

57: Mitsunaga N, Mihara M, Koshima I, Gonda K, Takuya I, Kato H, Araki J, Yamamoto Y, Yuhei O, Todokoro T, Ishikawa S, Eri U, Munding GS. Digital artery perforator (DAP) flaps: modifications for fingertip and finger stump reconstruction. *J Plast Reconstr Aesthet Surg.* 2010 Aug;63(8):1312-7. Epub 2009 Sep 2. PubMed PMID: 19729356.

58: Aoi N, Yoshimura K, Kadono T, Nakagami G, Iizuka S, Higashino T, Araki J, Koshima I, Sanada H. Ultrasound assessment of deep tissue injury in pressure ulcers: possible prediction of pressure ulcer progression. *Plast Reconstr Surg.* 2009 Aug;124(2):540-50. PubMed PMID: 19644272.

59: Koshima I, Narushima M, Mihara M, Uchida G, Nakagawa M. Fascicular turnover flap for nerve gaps. *J Plast Reconstr Aesthet Surg.* 2010 Jun;63(6):1008-14. Epub 2009 Apr 22. PubMed PMID: 19395329.

60: Yamamoto K, Igawa K, Ueno H, Yano F, Chung UI, Koshima I. Temporal and spatial changes in element distribution in bone and cartilage. *J Orthop Sci.* 2009 Mar;14(2):198-203. Epub 2009 Apr 1. PubMed PMID: 19337812.

- 61: Suzuki S, Nakasato M, Shibue T, Koshima I, Taniguchi T. Therapeutic potential of proapoptotic molecule Noxa in the selective elimination of tumor cells. *Cancer Sci.* 2009 Apr;100(4):759-69. Epub 2009 Mar 9. PubMed PMID: 19298224.
- 62: Nishizawa S, Yamaoka H, Matsui M, Hirabayashi S, Hoshi K, Koshima I, Yamaoka K. Selection and effect of ointment bases for preparing collagenase inhibitor ointment using high-performance liquid chromatography and Franz cell apparatus. *Ann Plast Surg.* 2009 Feb;62(2):187-93. PubMed PMID: 19158532.
- 63: Narushima M, Mihara M, Koshima I, Gonda K, Takuya I, Kato H, Nakanishi K, Yamamoto Y, Araki J, Abe H, Mundinger GS, Kikuchi K, Uehara E. Intravascular stenting (IVaS) method for fingertip replantation. *Ann Plast Surg.* 2009 Jan;62(1):38-41. PubMed PMID: 19131717.
- 64: Koshima I, Narushima M, Mihara M, Iida T, Gonda K, Uchida G, Nakagawa M. New thoracodorsal artery perforator (TAPcp) flap with capillary perforators for reconstruction of upper limb. *J Plast Reconstr Aesthet Surg.* 2010 Jan;63(1):140-5. Epub 2008 Nov 14. PubMed PMID: 19013115.
- 65: Matsuo T, Ohara N, Namba Y, Koshima I, Ida K, Kanazawa S. Ophthalmic artery embolization as pretreatment of orbital exenteration for conjunctival squamous cell carcinoma. *Cardiovasc Intervent Radiol.* 2009 May;32(3):554-7. Epub 2008 Aug 14. PubMed PMID: 18704568.
- 66: Mihara M, Nakanishi M, Nakashima M, Narushima M, Koshima I. Utility and anatomical examination of the DIEP flap's three-dimensional image with multidetector computed tomography. *Plast Reconstr Surg.* 2008 Jul;122(1):40e-41e. PubMed PMID: 18594374.
- 67: Koshima I, Narushima M, Mihara M, Uchida G, Nakagawa M. Short pedicle thoracodorsal artery perforator (TAP) adiposal flap for three-dimensional reconstruction of contracted orbital cavity. *J Plast Reconstr Aesthet Surg.* 2008 Dec;61(12):e13-7. Epub 2008 Apr 25. PubMed PMID: 18440287.
- 68: Kawahara N, Sasaki T, Asakage T, Nakao K, Sugasawa M, Asato H, Koshima I, Saito N. Long-term outcome following radical temporal bone resection for lateral skull base malignancies: a neurosurgical perspective. *J Neurosurg.* 2008 Mar;108(3):501-10. PubMed PMID: 18312097.
- 69: Gonda K, Shigeura T, Sato T, Matsumoto D, Suga H, Inoue K, Aoi N, Kato H, Sato K, Murase S, Koshima I, Yoshimura K. Preserved proliferative capacity and multipotency of human adipose-derived stem cells after long-term cryopreservation. *Plast Reconstr Surg.* 2008 Feb;121(2):401-10. PubMed PMID: 18300956.

70: Narushima M, Koshima I, Mihara M, Uchida G, Gonda K. Intravascular stenting (IVaS) for safe and precise supermicrosurgery. *Ann Plast Surg.* 2008 Jan;60(1):41-4. PubMed PMID: 18281794.

71: Koshima I. Atypical arteriole anastomoses for fingertip replantations under digital block. *J Plast Reconstr Aesthet Surg.* 2008;61(1):84-7. Epub 2007 Jan 31. PubMed PMID: 18068656.

72: Suga H, Shigeura T, Matsumoto D, Inoue K, Kato H, Aoi N, Murase S, Sato K, Gonda K, Koshima I, Yoshimura K. Rapid expansion of human adipose-derived stromal cells preserving multipotency. *Cytherapy.* 2007;9(8):738-45. PubMed PMID: 18058361.

73: Koshima I, Narushima M, Mihara M, Nakai I, Akazawa S, Fukuda N, Watanabe Y, Nakagawa M. Island medial plantar artery perforator flap for reconstruction of plantar defects. *Ann Plast Surg.* 2007 Nov;59(5):558-62. PubMed PMID: 17992152.

74: Nagase T, Koshima I, Maekawa T, Kaneko J, Sugawara Y, Makuuchi M, Koyanagi H, Nakagami G, Sanada H. Ultrasonographic evaluation of an unusual peri-anal induration: a possible case of deep tissue injury. *J Wound Care.* 2007 Sep;16(8):365-7. Review. PubMed PMID: 17927084.

75: Ogata F, Narushima M, Mihara M, Azuma R, Morimoto Y, Koshima I. Intraoperative lymphography using indocyanine green dye for near-infrared fluorescence labeling in lymphedema. *Ann Plast Surg.* 2007 Aug;59(2):180-4. PubMed PMID: 17667413.

76: Aiba-Kojima E, Tsuno NH, Inoue K, Matsumoto D, Shigeura T, Sato T, Suga H, Kato H, Nagase T, Gonda K, Koshima I, Takahashi K, Yoshimura K. Characterization of wound drainage fluids as a source of soluble factors associated with wound healing: comparison with platelet-rich plasma and potential use in cell culture. *Wound Repair Regen.* 2007 Jul-Aug;15(4):511-20. PubMed PMID: 17650095.

77: Ogata F, Azuma R, Kikuchi M, Koshima I, Morimoto Y. Novel lymphography using indocyanine green dye for near-infrared fluorescence labeling. *Ann Plast Surg.* 2007 Jun;58(6):652-5. PubMed PMID: 17522489.

78: Mihara M, Nakanishi M, Nakashima M, Narushima M, Gonda K, Koshima I. Distal phalanx replantation using the delayed venous method: a high success rate in 21 cases without specialised technique. *J Plast Reconstr Aesthet Surg.* 2008;61(1):88-93. Epub 2007 Apr 5. PubMed PMID: 17418654.

79: Nagase T, Hisatomi T, Koshima I, Hattori N, Koyanagi H, Sanada H. Heterotopic

ossification in the sacral pressure ulcer treated with basic fibroblast growth factor: coincidence or side effect? *J Plast Reconstr Aesthet Surg*. 2007;60(3):327-9. Epub 2006 Jun 12. PubMed PMID: 17293296.

80: Koshima I, Urushibara K, Fukuda N, Ohkochi M, Nagase T, Gonda K, Asato H, Yoshimura K. Digital artery perforator flaps for fingertip reconstructions. *Plast Reconstr Surg*. 2006 Dec;118(7):1579-84. PubMed PMID: 17102731.

81: Sarukawa S, Okazaki M, Asato H, Koshima I. Volumetric changes in the transferred flap after anterior craniofacial reconstruction. *J Reconstr Microsurg*. 2006 Oct;22(7):499-505; discussion 506-7. PubMed PMID: 17048130.

82: Namba Y, Kimata Y, Koshima I, Sugihara S, Sato T. Fibular osteoadiposal flap for treatment of tibial adamantinoma: a case report. *Acta Med Okayama*. 2006 Aug;60(4):233-6. PubMed PMID: 16943861.

83: Itano H, Andou A, Date H, Koshima I, Shimizu N. Chest wall reconstruction with perforator flaps after wide full-thickness resection. *J Thorac Cardiovasc Surg*. 2006 Jul;132(1):e13-4. PubMed PMID: 16798290.

84: Koshima I, Nanba Y, Nagai A, Nakatsuka M, Sato T, Kuroda S. Penile reconstruction with bilateral superficial circumflex iliac artery perforator (SCIP) flaps. *J Reconstr Microsurg*. 2006 Apr;22(3):137-42. PubMed PMID: 16780040.

85: Yoshimura K, Sato K, Aiba-Kojima E, Matsumoto D, Machino C, Nagase T, Gonda K, Koshima I. Repeated treatment protocols for melasma and acquired dermal melanocytosis. *Dermatol Surg*. 2006 Mar;32(3):365-71. PubMed PMID: 16640680.

86: Yamaoka H, Asato H, Ogasawara T, Nishizawa S, Takahashi T, Nakatsuka T, Koshima I, Nakamura K, Kawaguchi H, Chung UI, Takato T, Hoshi K. Cartilage tissue engineering using human auricular chondrocytes embedded in different hydrogel materials. *J Biomed Mater Res A*. 2006 Jul;78(1):1-11. PubMed PMID: 16596585.

87: Yoshimura K, Shigeura T, Matsumoto D, Sato T, Takaki Y, Aiba-Kojima E, Sato K, Inoue K, Nagase T, Koshima I, Gonda K. Characterization of freshly isolated and cultured cells derived from the fatty and fluid portions of liposuction aspirates. *J Cell Physiol*. 2006 Jul;208(1):64-76. PubMed PMID: 16557516.

88: Ozkan O, Koshima I, Gonda K. A supermicrosurgical flap model in the rat: a free true abdominal perforator flap with a short pedicle. *Plast Reconstr Surg*. 2006 Feb;117(2):479-85. PubMed PMID: 16462329.

89: Nagase M, Nagase T, Koshima I, Fujita T. Critical time window of hedgehog-dependent angiogenesis in murine yolk sac. *Microvasc Res*. 2006

Mar;71(2):85-90. Epub 2006 Jan 18. PubMed PMID: 16414085.

90: Yamada Y, Nagase T, Nagase M, Koshima I. Gene expression changes of sonic hedgehog signaling cascade in a mouse embryonic model of fetal alcohol syndrome. *J Craniofac Surg*. 2005 Nov;16(6):1055-61; discussion 1062-3. PubMed PMID: 16327553.

91: Koshima I, Ozaki T, Gonda K, Okazaki M, Asato H. Posterior tibial adiposal flap for repair of wide, full-thickness defect of the Achilles tendon. *J Reconstr Microsurg*. 2005 Nov;21(8):551-4. PubMed PMID: 16292732.

92: Nagai A, Tokuyama E, Nanba Y, Tsutsui T, Kimata Y, Nakatsuka M, Koshima I, Saika T, Nasu Y, Kumon H. Sex reassignment surgery for male to female transsexuals: initial experience in Okayama university hospital. *Acta Med Okayama*. 2005 Oct;59(5):231-3. PubMed PMID: 16286961.

93: Nagase T, Gonda K, Inoue K, Higashino T, Fukuda N, Gorai K, Mihara M, Nakanishi M, Koshima I. Treatment of lymphedema with lymphaticovenular anastomoses. *Int J Clin Oncol*. 2005 Oct;10(5):304-10. Review. PubMed PMID: 16247656.

94: Koshima I. Short pedicle superficial inferior epigastric artery adiposal flap: new anatomical findings and the use of this flap for reconstruction of facial contour. *Plast Reconstr Surg*. 2005 Sep 15;116(4):1091-7. PubMed PMID: 16163100.

95: Nagase T, Nagase M, Yoshimura K, Fujita T, Koshima I. Angiogenesis within the developing mouse neural tube is dependent on sonic hedgehog signaling: possible roles of motor neurons. *Genes Cells*. 2005 Jun;10(6):595-604. PubMed PMID: 15938717.

96: Kaji N, Nagase T, Nagase M, Koshima I. Changes in angiogenic gene expression in a case of expanded capillary malformation: does an expanded capillary malformation grow? *Ann Plast Surg*. 2005 Jun;54(6):645-50. PubMed PMID: 15900153.

97: Namba Y, Ito S, Tsutsui T, Koshima I. Facial augmentation with groin osteoadiposal flap transfer. *J Reconstr Microsurg*. 2005 Jan;21(1):25-8. PubMed PMID: 15672315.

98: Koshima I, Fujitsu M, Ushio S, Sugiyama N, Yamashita S. Flow-through anterior thigh flaps with a short pedicle for reconstruction of lower leg and foot defects. *Plast Reconstr Surg*. 2005 Jan;115(1):155-62. PubMed PMID: 15622246.

99: Koshima I, Yamashita S, Sugiyama N, Ushio S, Tsutsui T, Nanba Y. Successful

delayed venous drainage in 16 consecutive distal phalangeal replantations. *Plast Reconstr Surg.* 2005 Jan;115(1):149-54. PubMed PMID: 15622245.

100: Koshima I, Nanba Y, Tsutsui T, Takahashi Y, Itoh S, Fujitsu M. Minimal invasive lymphaticovenular anastomosis under local anesthesia for leg lymphedema: is it effective for stage III and IV? *Ann Plast Surg.* 2004 Sep;53(3):261-6. PubMed PMID: 15480014.

101: Koshima I, Nanba Y, Tsutsui T, Takahashi Y, Itoh S. New one-stage nerve pedicle grafting technique using the great auricular nerve for reconstruction of facial nerve defects. *J Reconstr Microsurg.* 2004 Jul;20(5):357-61. PubMed PMID: 15237353.

102: Nishimura T, Furukawa M, Koshima I. Scapular bone flap harvests of patients in a supine position. *Laryngoscope.* 2004 Jun;114(6):1130-2. PubMed PMID: 15179227.

103: Namba Y, Takahashi Y, Ito S, Koshima I. Multiple vascular anastomoses with vein grafts for salvage of congestive flaps. *J Reconstr Microsurg.* 2003 Nov;19(8):531-6. PubMed PMID: 14722840.

104: Koshima I, Nanba Y, Tsutsui T, Takahashi Y, Urushibara K, Inagawa K, Hamasaki T, Moriguchi T. Superficial circumflex iliac artery perforator flap for reconstruction of limb defects. *Plast Reconstr Surg.* 2004 Jan;113(1):233-40. PubMed PMID: 14707641.

105: Koshima I, Nanba Y, Tsutsui T, Itoh S. Sequential vascularized iliac bone graft and a superficial circumflex iliac artery perforator flap with a single source vessel for established mandibular defects. *Plast Reconstr Surg.* 2004 Jan;113(1):101-6. PubMed PMID: 14707627.

106: Mimura H, Kanazawa S, Yasui K, Fujiwara H, Hyodo T, Mukai T, Dendo S, Iguchi T, Hiraki T, Koshima I, Hiraki Y. Percutaneous sclerotherapy for venous malformations using polidocanol under fluoroscopy. *Acta Med Okayama.* 2003 Oct;57(5):227-34. PubMed PMID: 14679400.

107: Koshima I, Itoh S, Nanba Y, Tsutsui T, Takahashi Y. Medial and lateral malleolar perforator flaps for repair of defects around the ankle. *Ann Plast Surg.* 2003 Dec;51(6):579-83. PubMed PMID: 14646653.

108: Koshima I, Nanba Y, Tsutsui T, Takahashi Y. Deep peroneal nerve transfer for established plantar sensory loss. *J Reconstr Microsurg.* 2003 Oct;19(7):451-4. PubMed PMID: 14634907.

109: Koshima I, Nanba Y, Tsutsui T, Takahashi Y, Kawai A. Vascularized femoral nerve graft with anterolateral thigh true perforator flap for massive defects after cancer ablation in the upper arm. *J Reconstr Microsurg*. 2003 Jul;19(5):299-302. PubMed PMID: 14506577.

110: Blondeel PN, Van Landuyt KH, Monstrey SJ, Hamdi M, Matton GE, Allen RJ, Dupin C, Feller AM, Koshima I, Kostakoglu N, Wei FC. The "Gent" consensus on perforator flap terminology: preliminary definitions. *Plast Reconstr Surg*. 2003 Oct;112(5):1378-83; quiz 1383, 1516; discussion 1384-7. PubMed PMID: 14504524.

111: Koshima I, Nanba Y, Tsutsui T, Takahashi Y. Medial plantar perforator flaps with supermicrosurgery. *Clin Plast Surg*. 2003 Jul;30(3):447-55, vii. PubMed PMID: 12916599.

112: Koshima I, Tsutsui T, Takahashi Y, Nanba Y. Free gluteal artery perforator flap with a short, small perforator. *Ann Plast Surg*. 2003 Aug;51(2):200-4. PubMed PMID: 12897526.

113: Koshima I, Nanba Y, Tsutsui T, Takahashi Y, Watanabe A, Ishii R. Free perforator flap for the treatment of defects after resection of huge arteriovenous malformations in the head and neck regions. *Ann Plast Surg*. 2003 Aug;51(2):194-9. PubMed PMID: 12897525.

114: Koshima I, Nanba Y, Tsutsui T, Takahashi Y, Itoh S. Long-term follow-up after lymphaticovenular anastomosis for lymphedema in the leg. *J Reconstr Microsurg*. 2003 May;19(4):209-15. PubMed PMID: 12858242.

115: Koshima I, Nanba Y, Tsutsui T, Takahashi Y. New anterolateral thigh perforator flap with a short pedicle for reconstruction of defects in the upper extremities. *Ann Plast Surg*. 2003 Jul;51(1):30-6. PubMed PMID: 12838122.

116: Koshima I, Nanba Y, Tsutsui T, Takahashi Y, Itoh S, Kobayashi R. Dynamic reconstruction of large abdominal defects using a free rectus femoris musculocutaneous flap with normal motor function. *Ann Plast Surg*. 2003 Apr;50(4):420-4. PubMed PMID: 12671387.

117: Namba Y, Ito S, Tsutsui T, Koshima I. Treatment of meralgia paresthetica with a deep inferior epigastric perforator adiposal flap: case report. *J Reconstr Microsurg*. 2003 Feb;19(2):69-72. PubMed PMID: 12632302.

118: Unlü RE, Uysal AC, Alagöz MS, Sensöz O, Koshima I. One-stage facial contour augmentation with intraoral transfer of a paraumbilical perforator adiposal flap. *Plast Reconstr Surg*. 2003 Jan;111(1):492; author reply 492-3. PubMed PMID: 12496628.

119: Koshima I, Nanba Y, Tsutsui T, Takahashi Y, Itoh S. Perforator flaps in lower extremity reconstruction. *Handchir Mikrochir Plast Chir.* 2002 Jul;34(4):251-6. PubMed PMID: 12491184.

120: Koshima I, Tsutsui T, Nanba Y, Takahashi Y, Akisada K. Free radial forearm osteocutaneous perforator flap for reconstruction of total nasal defects. *J Reconstr Microsurg.* 2002 Oct;18(7):585-8; discussion 589-90. PubMed PMID: 12404131.

121: Usui H, Makino H, Shikata K, Sugimoto T, Wada J, Yamana J, Matsuda M, Yoneda M, Koshima I. A case of congenital generalized lipodystrophy with lipoatrophic diabetes developing anti-insulin antibodies. *Diabet Med.* 2002 Sep;19(9):794-5. PubMed PMID: 12207821.

122: Kim JT, Kim SK, Koshima I, Moriguchi T. An anatomic study and clinical applications of the reversed submental perforator-based island flap. *Plast Reconstr Surg.* 2002 Jun;109(7):2204-10. PubMed PMID: 12045537.

123: Koshima I. A new classification of free combined or connected tissue transfers: introduction to the concept of bridge, siamese, chimeric, mosaic, and chain-circle flaps. *Acta Med Okayama.* 2001 Dec;55(6):329-32. Review. PubMed PMID: 11779094.

124: Koshima I, Itoh S, Takahashi Y, Nanba Y, Kishimoto K. Free vascularized nail graft under digital block. *J Reconstr Microsurg.* 2001 Nov;17(8):599-601; discussion 602. PubMed PMID: 11740654.

125: Koshima I, Inagawa K, Urushibara K, Moriguchi T. One-stage facial contour augmentation with intraoral transfer of a paraumbilical perforator adiposal flap. *Plast Reconstr Surg.* 2001 Sep 15;108(4):988-94. PubMed PMID: 11547160.

126: Koshima I, Urushibara K, Inagawa K, Moriguchi T. Free tensor fasciae latae perforator flap for the reconstruction of defects in the extremities. *Plast Reconstr Surg.* 2001 Jun;107(7):1759-65. PubMed PMID: 11391196.

127: Koshima I, Urushibara K, Inagawa K, Hamasaki T, Moriguchi T. Free medial plantar perforator flaps for the resurfacing of finger and foot defects. *Plast Reconstr Surg.* 2001 Jun;107(7):1753-8. PubMed PMID: 11391195.

128: Koshima I, Urushibara K, Inagawa K, Moriguchi T. One-stage facial augmentation with an intraoral groin adipose flap transfer. *Ann Plast Surg.* 2001 Apr;46(4):450-3. PubMed PMID: 11324892.



129: Koshima I. Free Anterolateral Thigh Flap for Reconstruction of Head and Neck Defects following Cancer Ablation. *Plast Reconstr Surg.* 2000 Jun;105(7):2358-2360. PubMed PMID: 11242347.

130: Koshima I, Inagawa K, Urushibara K, Moriguchi T. Combined submental flap with toe web for reconstruction of the lip with oral commissure. *Br J Plast Surg.* 2000 Oct;53(7):616-9. PubMed PMID: 11000080.

131: Koshima I, Inagawa K, Urushibara K, Moriguchi T. Supermicrosurgical lymphaticovenular anastomosis for the treatment of lymphedema in the upper extremities. *J Reconstr Microsurg.* 2000 Aug;16(6):437-42. PubMed PMID: 10993089.

132: Koshima I, Hosoda M, Moriguchi T, Kawada S. New multilobe "accordion" flaps for three-dimensional reconstruction of wide, full-thickness defects in the oral floor. *Ann Plast Surg.* 2000 Aug;45(2):187-92. PubMed PMID: 10949349.

133: Koshima I, Inagawa K, Yamamoto M, Moriguchi T. New microsurgical breast reconstruction using free paraumbilical perforator adiposal flaps. *Plast Reconstr Surg.* 2000 Jul;106(1):61-5. PubMed PMID: 10883612.

134: Koshima I, Inagawa K, Urushibara K, Ohtsuki M, Moriguchi T. Deep inferior epigastric perforator dermal-fat or adiposal flap for correction of craniofacial contour deformities. *Plast Reconstr Surg.* 2000 Jul;106(1):10-5. PubMed PMID: 10883606.

135: Koshima I, Inagawa K, Urushibara K, Okumoto K, Moriguchi T. Fingertip reconstructions using partial-toe transfers. *Plast Reconstr Surg.* 2000 Apr;105(5):1666-74. PubMed PMID: 10809096.

136: Koshima I, Urushibara K, Okuyama H, Moriguchi T. Ear helix flap for reconstruction of total loss of the upper eyelid. *Br J Plast Surg.* 1999 Jun;52(4):314-6. PubMed PMID: 10624302.

137: Koshima I, Inagawa K, Etoh K, Moriguchi T. [Supramicrosurgical lymphaticovenular anastomosis for the treatment of lymphedema in the extremities]. *Nihon Geka Gakkai Zasshi.* 1999 Sep;100(9):551-6. Japanese. PubMed PMID: 10516971.

138: Koshima I, Moriguchi T, Inagawa K, Urushibara K. Dynamic reconstruction of the abdominal wall using a reinnervated free rectus femoris muscle transfer. *Ann Plast Surg.* 1999 Aug;43(2):199-203. PubMed PMID: 10454330.

139: Shirai H, Imai S, Kajihara Y, Yamashita T, Goto T, Tokiya R, Koshima I, Moriguchi T. [Usefulness of percutaneous sclerosing treatment for low-flow

vascular lesions]. *Nihon Igaku Hoshasen Gakkai Zasshi*. 1999 Jun;59(7):325-32. Japanese. PubMed PMID: 10429431.

140: Koshima I, Moriguchi T. Denervation of Pacinian corpuscles: electron microscopic observations in the rat following nerve transection. *J Reconstr Microsurg*. 1999 May;15(4):273-9. PubMed PMID: 10363550.

141: Koshima I, Saisho H, Kawada S, Hamanaka T, Umeda N, Moriguchi T. Flow-through thin latissimus dorsi perforator flap for repair of soft-tissue defects in the legs. *Plast Reconstr Surg*. 1999 Apr;103(5):1483-90. PubMed PMID: 10190449.

142: Koshima I, Inagawa K, Okuyama N, Moriguchi T. Free vascularized appendix transfer for reconstruction of penile urethras with severe fibrosis. *Plast Reconstr Surg*. 1999 Mar;103(3):964-9. PubMed PMID: 10077089.

143: Koshima I, Hosoda S, Inagawa K, Urushibara K, Moriguchi T. Free combined anterolateral thigh flap and vascularized fibula for wide, through-and-through oromandibular defects. *J Reconstr Microsurg*. 1998 Nov;14(8):529-34. PubMed PMID: 9853941.

144: Koshima I, Inagawa K, Sahara K, Tsuda K, Moriguchi T. Flow-through vascularized toe-joint transfer for reconstruction of segmental loss of an amputated finger. *J Reconstr Microsurg*. 1998 Oct;14(7):453-7; discussion 457-8. PubMed PMID: 9819091.

145: Turowski GA, Koshima I, Upton J. Muscle stapling technique for free muscle transfer to the face. *Plast Reconstr Surg*. 1998 Oct;102(5):1639-41. PubMed PMID: 9774025.

146: Koshima I, Inagawa K, Urushibara K, Moriguchi T. Paraumbilical perforator flap without deep inferior epigastric vessels. *Plast Reconstr Surg*. 1998 Sep;102(4):1052-7. PubMed PMID: 9734423.

147: Shimizu M, Hirokawa M, Fukuya T, Osugi N, Koshima I, Manabe T. Postmastectomy angiosarcoma (Stewart-Treves syndrome). *Acta Cytol*. 1997 Nov-Dec;41(6):1865-6. PubMed PMID: 9390164.

148: Koshima I, Umeda N, Moriguchi T, Handa T, Akisada K, Orita Y. A full-thickness chondrocutaneous flap from the auricular concha for repair of tracheal defects. *Plast Reconstr Surg*. 1997 Jun;99(7):1887-93. PubMed PMID: 9180712.

149: Koshima I, Umeda N, Handa T, Moriguchi T, Orita Y. A double-muscle transfer

using a divided rectus femoris muscle for facial-paralysis reconstruction. *J Reconstr Microsurg.* 1997 Apr;13(3):157-62. PubMed PMID: 9101444.

150: Koshima I, Hosoda M, Moriguchi T, Ishii R, Orita Y, Yamamoto H. Three-dimensional combined flaps for reconstruction of complex facial defects following cancer ablation. *J Reconstr Microsurg.* 1997 Feb;13(2):73-80; discussion 80-1. PubMed PMID: 9044180.

151: Koshima I, Tsuda K, Hamanaka T, Moriguchi T. One-stage reconstruction of established facial paralysis using a rectus abdominis muscle transfer. *Plast Reconstr Surg.* 1997 Jan;99(1):234-8. PubMed PMID: 8982211.

152: Koshima I, Hosoda M, Inagawa K, Moriguchi T, Orita Y. Free medial thigh perforator-based flaps: new definition of the pedicle vessels and versatile application. *Ann Plast Surg.* 1996 Nov;37(5):507-15. PubMed PMID: 8937604.

153: Hirano N, Sasaki A, Watanabe T, Hori T, Horie Y, Koshima I. Malignant fibrous histiocytoma of the lateral wall of the orbit. *Neurol Med Chir (Tokyo).* 1996 Apr;36(4):246-50. PubMed PMID: 8741256.

154: Koshima I, Okumoto K, Umeda N, Moriguchi T, Ishii R, Nakayama Y. Free vascularized deep peroneal nerve grafts. *J Reconstr Microsurg.* 1996 Apr;12(3):131-41. PubMed PMID: 8726331.

155: Koshima I, Kawada S, Moriguchi T, Kajiwara Y. Ultrastructural observations of lymphatic vessels in lymphedema in human extremities. *Plast Reconstr Surg.* 1996 Feb;97(2):397-405; discussion 406-7. PubMed PMID: 8559823.

156: Koshima I, Inagawa K, Jitsuiki Y, Tsuda K, Moriguchi T, Watanabe A. Scarpa's adipofascial flap for repair of wide scalp defects. *Ann Plast Surg.* 1996 Jan;36(1):88-92. PubMed PMID: 8722992.

157: Koshima I, Moriguchi T, Etoh H, Tsuda K, Tanaka H. The radial artery perforator-based adipofascial flap for dorsal hand coverage. *Ann Plast Surg.* 1995 Nov;35(5):474-9. PubMed PMID: 8579264.

158: Koshima I, Kawada S, Etoh H, Saisho H, Moriguchi T. Free combined thin wrap-around flap with a second toe proximal interphalangeal joint transfer for reconstruction of the thumb. *Plast Reconstr Surg.* 1995 Oct;96(5):1205-10. PubMed PMID: 7568501.

159: Koshima I, Kawada S, Moriguchi T, Hamanaka T, Ono Y. Connected deep femoral and gluteal perforator-based flap for repair of an extensive defect on the posterior thigh. *Plast Reconstr Surg.* 1995 Jul;96(1):201-6. PubMed PMID: 7604103.

160: Koshima I, Kawada S, Etoh H, Kawamura S, Moriguchi T, Sonoh H. Flow-through anterior thigh flaps for one-stage reconstruction of soft-tissue defects and revascularization of ischemic extremities. *Plast Reconstr Surg.* 1995 Feb;95(2):252-60. PubMed PMID: 7824604.

161: Koshima I, Handa T, Satoh Y, Akisada K, Orita Y, Yamamoto H. [Free rectus abdominis muscle perforating artery flaps for reconstruction of the head and neck defects]. *Nihon Jibiinkoka Gakkai Kaiho.* 1995 Jan;98(1):1-7. Japanese. PubMed PMID: 7897566.

162: Koshima I, Hosoda M, Ohta S, Moriguchi T, Soeda S, Nakayama Y, Kusakari J. Free vascularized iliac osteomusculocutaneous flaps based on the lateral circumflex femoral system for repair of large mandibular defects. *Ann Plast Surg.* 1994 Dec;33(6):581-8. PubMed PMID: 7880046.

163: Koshima I, Yamamoto H, Moriguchi T, Kawada S, Ono Y. Combined anteroposterior tibial perforator-based flap with a vascularized deep peroneal nerve for repair of facial defect. *Ann Plast Surg.* 1994 Oct;33(4):421-5. PubMed PMID: 7810961.

164: Koshima I, Moriguchi T, Soeda S, Hamanaka T, Tanaka H, Ohta S. Free rectus femoris muscle transfer for one-stage reconstruction of established facial paralysis. *Plast Reconstr Surg.* 1994 Sep;94(3):421-30. PubMed PMID: 8047592.

165: Koshima I, Yamamoto H, Moriguchi T, Orita Y. Extended anterior thigh flaps for repair of massive cervical defects involving pharyngoesophagus and skin: an introduction to the "mosaic" flap principle. *Ann Plast Surg.* 1994 Mar;32(3):321-7. PubMed PMID: 8192396.

166: Koshima I, Etoh H, Moriguchi T, Soeda S. Sixty cases of partial or total toe transfer for repair of finger losses. *Plast Reconstr Surg.* 1993 Dec;92(7):1331-8; discussion 1339-41. PubMed PMID: 8248409.

167: Koshima I, Moriguchi T, Soeda S. Reinnervation of denervated Pacinian corpuscles: ultrastructural observations in rats following free nerve grafts. *Plast Reconstr Surg.* 1993 Sep;92(4):728-35. PubMed PMID: 8356135.

168: Koshima I, Fukuda H, Yamamoto H, Moriguchi T, Soeda S, Ohta S. Free anterolateral thigh flaps for reconstruction of head and neck defects. *Plast Reconstr Surg.* 1993 Sep;92(3):421-8; discussion 429-30. PubMed PMID: 8341740.

169: Koshima I, Yamamoto H, Hosoda M, Moriguchi T, Orita Y, Nagayama H. Free combined composite flaps using the lateral circumflex femoral system for repair

of massive defects of the head and neck regions: an introduction to the chimeric flap principle. *Plast Reconstr Surg.* 1993 Sep;92(3):411-20. PubMed PMID: 8341739.

170: Koshima I, Hosoda M, Moriguchi T, Hamanaka T, Kawata S, Hata T. A combined anterolateral thigh flap, anteromedial thigh flap, and vascularized iliac bone graft for a full-thickness defect of the mental region. *Ann Plast Surg.* 1993 Aug;31(2):175-80. PubMed PMID: 8215136.

171: Koshima I, Soeda S, Murashita T. Extended wrap-around flap for reconstruction of the finger with recurrent arteriovenous malformation. *Plast Reconstr Surg.* 1993 May;91(6):1140-4. PubMed PMID: 8479981.

172: Koshima I, Moriguchi T, Soeda S, Kawata S, Ohta S, Ikeda A. The gluteal perforator-based flap for repair of sacral pressure sores. *Plast Reconstr Surg.* 1993 Apr;91(4):678-83. PubMed PMID: 8446721.

173: Koshima I, Moriguchi T, Umeda N, Yamada A. Trimmed second toetip transfer for reconstruction of claw nail deformity of the fingers. *Br J Plast Surg.* 1992 Nov-Dec;45(8):591-4. PubMed PMID: 1493531.

174: Tsujino A, Hayashi K, Koshima I. [A histo-morphometric study on peripheral nerve allografts in rats with cyclosporin A]. *Nihon Seikeigeka Gakkai Zasshi.* 1992 Oct;66(10):1043-50. Japanese. PubMed PMID: 1460375.

175: Koshima I, Moriguchi T, Ohta S, Hamanaka T, Inoue T, Ikeda A. The vasculature and clinical application of the posterior tibial perforator-based flap. *Plast Reconstr Surg.* 1992 Oct;90(4):643-9. PubMed PMID: 1410001.

176: Koshima I, Moriguchi T, Soeda S, Yamamoto H, Orita Y, Hara A. Extended latissimus dorsi musculocutaneous flaps for extremely wide cervical skin defects involving the cervical esophagus. *Ann Plast Surg.* 1992 Aug;29(2):149-52. PubMed PMID: 1530265.

177: Koshima I, Moriguchi T, Soeda S, Tanaka H, Umeda N. Free thin paraumbilical perforator-based flaps. *Ann Plast Surg.* 1992 Jul;29(1):12-7. PubMed PMID: 1386718.

178: Hiramatsu Y, Sakakibara Y, Koshima I, Akishima S, Hirabayashi K, Mitsui T, Hori M. [A case report of poststernotomy mediastinitis treated with the pectoralis major muscle flap after protracted wound irrigation]. *Kyobu Geka.* 1992 May;45(5):432-4. Japanese. PubMed PMID: 1593816.

179: Koshima I, Soeda S, Moriguchi T, Higaki H, Miyakawa S, Yamasaki M. The use of arteriovenous anastomosis for replantation of the distal phalanx of the

fingers. *Plast Reconstr Surg.* 1992 Apr;89(4):710-4. PubMed PMID: 1546084.

180: Koshima I, Moriguchi T, Soeda S. Electron microscopic observations of degeneration of human Pacinian corpuscles in amputated fingers. *Plast Reconstr Surg.* 1992 Feb;89(2):243-8; discussion 249-50. PubMed PMID: 1732891.

181: Koshima I, Moriguchi T, Soeda S, Ishii M, Murashita T. Free thin osteo-onychocutaneous flaps from the big toe for reconstruction of the distal phalanx of the fingers. *Br J Plast Surg.* 1992 Jan;45(1):1-5. PubMed PMID: 1737199.

182: Koshima I, Moriguchi T, Fukuda H, Yoshikawa Y, Soeda S. Free, thinned, paraumbilical perforator-based flaps. *J Reconstr Microsurg.* 1991 Oct;7(4):313-6. PubMed PMID: 1836498.

183: Koshima I, Soeda S, Nakayama Y, Ishii M, Harada S, Kaneko M. A combined rectus abdominis musculocutaneous flap and vascularized iliac bone graft with double vascular pedicles. *Plast Reconstr Surg.* 1991 Sep;88(3):492-6;discussion 497-8. PubMed PMID: 1871230.

184: Koshima I, Moriguchi T, Soeda S, Hamanaka T, Umeda N. Free second toe transfer for reconstruction of the distal phalanx of the fingers. *Br J Plast Surg.* 1991 Aug-Sep;44(6):456-8. PubMed PMID: 1933118.

185: Koshima I, Higaki H, Soeda S. Combined vascularized fibula and peroneal composite-flap transfer for severe heat-press injury of the forearm. *Plast Reconstr Surg.* 1991 Aug;88(2):338-41. PubMed PMID: 1852831.

186: Koshima I, Moriguchi T, Soeda S, Murashita T. High-voltage electrical injury: electron microscopic findings of injured vessel, nerve, and muscle. *Ann Plast Surg.* 1991 Jun;26(6):587-91. PubMed PMID: 1883168.

187: Koshima I, Moriguchi T, Soeda S. One-stage reconstruction for amputated thumbs with melanoma. *J Reconstr Microsurg.* 1991 Apr;7(2):113-7; discussion 119. PubMed PMID: 2051433.

188: Koshima I, Soeda S. Free posterior tibial perforator-based flaps. *Ann Plast Surg.* 1991 Mar;26(3):284-8. PubMed PMID: 2029140.

189: Koshima I, Murashita T, Soeda S. Free vascularized deep peroneal neurocutaneous flap for repair of digital nerve defect involving severe finger damage. *J Hand Surg Am.* 1991 Mar;16(2):227-9. PubMed PMID: 2022829.

190: Koshima I, Soeda S, Nakayama Y, Fukuda H, Tanaka J. An arterialised venous flap using the long saphenous vein. *Br J Plast Surg*. 1991 Jan;44(1):23-6. PubMed PMID: 1993230.

191: Koshima I, Soeda S, Ohno A. Combined tensor fasciae latae musculocutaneous flap and sartorius musculocutaneous flap for the repair of wide defects of the lower leg. *Plast Reconstr Surg*. 1990 Dec;86(6):1198-201. PubMed PMID: 2243863.

192: Koshima I, Shozima M, Soeda S. Osteocutaneous flap from the big toe for repair of osteomyelitis of the second toe. *Ann Plast Surg*. 1990 Oct;25(4):283-6. PubMed PMID: 2244738.

193: Koshima I, Soeda S. Inferior epigastric artery skin flaps without rectus abdominis muscle. *Br J Plast Surg*. 1989 Nov;42(6):645-8. PubMed PMID: 2605399.

194: Koshima I, Shozima M, Soeda S. Repair of elbow defects and the biochemical characteristics of Werner's syndrome. *Ann Plast Surg*. 1989 Oct;23(4):357-62. PubMed PMID: 2817719.

195: Koshima I, Ohno A, Yamasaki M. Free vascularized osteoonychocutaneous flap for reconstruction of the distal phalanx of the fingers. *J Reconstr Microsurg*. 1989 Oct;5(4):337-42. PubMed PMID: 2810202.

196: Koshima I, Harada S, Yamasaki M. Use of the metatarsal venous arch for replantation in the metacarpal region of the hand. *J Hand Surg Am*. 1989 Sep;14(5):915-6. PubMed PMID: 2794419.

197: Koshima I, Endo T. Experimental study of vascularized muscle: multifactorial analysis of muscle regeneration following denervation. *J Reconstr Microsurg*. 1989 Jul;5(3):225-30. PubMed PMID: 2769626.

198: Koshima I, Fukuda H, Utunomiya R, Soeda S. The anterolateral thigh flap; variations in its vascular pedicle. *Br J Plast Surg*. 1989 May;42(3):260-2. PubMed PMID: 2758197.

199: Koshima I, Fukuda H, Soeda S. Free combined anterolateral thigh flap and vascularized iliac bone graft with double vascular pedicle. *J Reconstr Microsurg*. 1989 Jan;5(1):55-61. PubMed PMID: 2645400.

200: Koshima I, Soeda S, Yamasaki M, Kyou J. The free or pedicled anteromedial thigh flap. *Ann Plast Surg*. 1988 Nov;21(5):480-5. PubMed PMID: 2976584.