

Dr. Vaughan Bowen

Refereed Publications:

Boyer MI and Bowen CVA. Microvascular transplantation of epiphyseal plates: studies utilising allograft donor material. *Orthop Clin North Am* 38:103-108, 2007.

Barandun M, von Tscharnner V, Meuli-Simmen C, Bowen CVA, Valderrabano V. Frequency and conduction velocity analysis of the abductor pollicis brevis muscle during early fatigue. *Science Direct. J Electromyography and Kinesiology electronic publication*, www.sciencedirect.com 2007.

Bray PW, Neligan PC, Bowen CVA, Danska JS and Boyer MI. Development and validation of new model for microvascular transplantation of epiphyseal plate allografts with minimal adjoining epiphyseal and metaphyseal bone. *Microsurgery* 23:153-163, 2003.

Bloom HT, Freeland AE, Bowen CVA, Mrkonjic L. The treatment of chronic scapholunate dissociation: an evidence-based assessment of the literature. *Orthopaedics* 26:195-203, 2003.

Jain R, Hudak PL and Bowen CVA. Validity of health status measures in patients with ulnar wrist disorders. *J Hand Therapy* 14:147-153, 2001.

Glickman AM, Yang JP, Stevens DG and Bowen CVA. Epiphyseal plate transplantation between sites of different growth potential. *J Paed Ortho* 20:289-295, 2000.

Jain R, Hudak P and Bowen CVA. Health status following recessional ulna osteotomy. *Hand Surg* 5:11-17, 2000.

Glickman AM, Hudak P, Yang JP and Bowen CVA. The reliability of a new computerized technique for measuring epiphyseal plate zonal height. *J Musculoskeletal Res* 4:21-29, 2000.

Stevens DG, Boyer MI, Danska JS and Bowen CVA. Epiphyseal plate transplantation between animals of different ages. *J Paed Ortho* 19:398-403, 1999.

- Yang J-P, Glickman AM, Edwards V, Boyer MI and Bowen CVA. An ultrastructural study of the intimal hyperplasia in healing microarterial anastomoses. *Microsurgery* 18:391-396, 1998.
- Tomaino MM and Bowen CVA. Unsatisfactory outcome following lower limb salvage: Analysis of factors. *Am J Ortho* 27:526-529, 1998.
- Glickman A and Bowen CVA. Management of leg-length discrepancies: past, present and future. *University of Western Ontario Medical Journal*, 66:85-90, 1997.
- Bray PW, Bell RS, Bowen CVA, Davis A and O'Sullivan B. Limb salvage surgery and adjuvant radiotherapy for soft tissue sarcomas of the forearm and hand. *J Hand Surg* 22-A:495-503, 1997.
- Bowen CVA. Sample size estimations. *Microsurgery* 17:663, 1996.
- Bowen CVA. Introduction to the Presidential Address given at the Thirteenth Congress of the International Microsurgical Society. *Microsurgery*. 17:588, 1996.
- Bowen CVA. International Microsurgical Society Thirteenth Congress, 1996. *Microsurgery* 17:579-580, 1996.
- Bowen CVA. The foundation of a good paper is good research. *Microsurgery* 17:175, 1996.
- Bowen CVA, Botsford DJ, Hudak PL and Evans PJ. Microsurgical reconstruction of septic nonunion of the tibia: quality of life results. *Clin Orthop* 332:52-61, 1996.
- Carr MM, Boyd JB and Bowen CVA. Riche-Cannieu connection in median nerve injuries. *Can J Plast Surg* 4:117-120, 1996.
- Bowen CVA. Collaboration is a strength and a key to the future. *Microsurgery* 17:1, 1996.
- Wells MD, Bowen CVA, Manktelow RT, Graham J and Boyd JB. Lower extremity free flaps: a review. *Can J Surg* 39:233-239, 1996.

- Bowen CVA, Leach DH, Crosby NL, and Reynolds R. Microvascular anastomoses. A comparative study of fibrinogen adhesive and interrupted suture technique. *Plast Reconstr Surg* 97:792-800, 1996.
- Bowen CVA. A new editorial era. *Microsurgery* 16:721-722, 1996.
- Tomaino MM and Bowen CVA. The pedicled groin flap in hand surgery: Review of current indications and surgical principles. *Contemporary Orthopaedics* 31:45-48, 1995.
- Stevens D and Bowen CVA. Heterotopic microvascular epiphyseal plate transplantation: A new model using the rabbit metatarsal. *Microsurgery* 16:488-492, 1995.
- Al-Qattan MM, Clarke HM and Bowen CVA. Conservative management of transverse partial flexor digitorum profundus tendon lacerations in zone 2. *Can J Plast Surg* 3:157-160, 1995.
- Boyer MI, Danska JS, Nolan L, Kiral A and Bowen CVA. Microvascular transplantation of physal allografts. *J Bone Joint Surg* 77-B:806-814, 1995.
- Bowen CVA. International Microsurgical Society Twelfth Congress - 1994. *Microsurgery* 16:175-176, 1995.
- Boyer MI, Gilday G, Kiral A, Nolan L and Bowen CVA. Can quantitative Tc99-MDP bone scans be used to predict longitudinal growth of epiphyseal plate allografts after microvascular transplantation? An experimental study. *Microsurgery* 16:155-160, 1995.
- Tomaino M and Bowen CVA. Reconstructive surgery for lower limb salvage. *Can J Surg* 38:221-228, 1995.
- Boyer MI, Hochban T and Bowen CVA. Tarsal tunnel syndrome: An unusual case resulting from an intraneural degenerative cyst. *Can J Surg* 38:371-373, 1995.
- Boyer MI, Bowen CVA and Danska JS. Restriction fragment length polymorphism analysis of the major histocompatibility complex in New Zealand white rabbits. *Transplantation* 59:1043-1046, 1995.

- Boyer MI, Bray PW and Bowen CVA. Epiphyseal plate transplantation: An historic review. *Br J Plast Surg* 47:563-569, 1994.
- Al-Qattan MM, Bowen CVA and Manktelow RT. Factors associated with poor outcome following primary carpal tunnel release in non-diabetic patients. *J Hand Surg* 19-B:622-625, 1994.
- Al-Qattan and Bowen CVA. Patients refusing to undergo carpal tunnel release despite persistent symptoms after conservative therapy. *Can J Plast Surg* 2:171-172, 1994.
- Bowen CVA and Singer S. Bernard O'Brien: The microsurgical transfer of immature bone. *Microsurgery* 15:733-737, 1994.
- Al-Qattan MM, Manktelow RT and Bowen CVA. Outcome of carpal tunnel release in diabetic patients. *J Hand Surg* 19-B:626-629, 1994.
- Bowen CVA, Bray PW, Boyer MI, Fowler JD and Nolan L. Short term response of epiphyseal plate cell populations following selective devascularisation and microsurgical revascularisation. *Microsurgery* 15:555-562, 1994.
- Al-Qattan MM, Manktelow RT, Bowen CVA. Pregnancy-induced carpal tunnel syndrome requiring surgical release longer than 2 years after delivery. *Obstet and Gynecol* 84:249-251, 1994.
- Peat BG, Bell RS, Davis A, O'Sullivan B, Mahoney J, Manktelow RT, Bowen CVA, Catton C, Fornasier VL and Langer F. Wound-healing complications after soft-tissue sarcoma surgery. *Plast Reconstr Surg* 93:980-987, 1994.
- Al-Qattan, Bowen CVA and Manktelow RT. Tuberculosis of the hand. *J Hand Surg [Br]* 19:234-237, 1994.
- Smith AA, Bowen CVA, Rabczak T and Boyd JB. Donor site deficit of the osteocutaneous radial forearm flap. *Ann Plast Surg* 32:372-376, 1994.
- Boyer MI, Bowen CVA and Weiler P. Reconstruction of a severe grinding injury to the medial malleolus and the deltoid ligament of the ankle using a free plantaris tendon graft and vascularized gracilis free

- muscle transfer: Case report. *J Trauma* 36:454-457, 1994.
- Al-Qattan MM and CVA Bowen. Distal rupture of the biceps tendon with median nerve neurological symptoms. *Can J Plast Surg* 1:191, 1994.
- Carr MM, Mahoney JL and Bowen CVA. Extremity arteriovenous malformations: Review of a series. *Can J Surg* 37:293-299, 1993.
- Kumar RA, Boyer MI and Bowen CVA. A reliable method of anaesthesia for extensive surgery in small rabbits. *Lab Animal Science*, 265-266, 1993.
- Al Qattan MM and CVA Bowen. Cumulative trauma disorders of the hand and wrist. *Current Opinion in Orthopaedics* 4:68-72, 1993.
- Bowen CVA. Introduction to *Frontiers in Microsurgery: Complications associated with microvascular surgery*. *Microsurgery* 14:151, 1993.
- Al Qattan MM and Bowen CVA. The effect of pre-existing health conditions on the results of reconstructive microvascular surgery. *Microsurgery* 14:152-157, 1993.
- Wells MD, Manktelow RT, Boyd JB and Bowen CVA. The medical leech. An old treatment revisited. *Microsurgery* 14:183-186, 1993.
- Bowen CVA and Manktelow RT. Complications and unsatisfactory results in the microsurgical reconstruction of lower extremities. *Microsurgery* 14:196-202, 1993.
- Richards RS and Bowen CVA. Recessional ulnar osteotomy: Use of reduction forceps for intraoperative radiography and plate application. *J Hand Surg [Am]* 18:56-57, 1993.
- Nolan LM and Bowen CVA. Extremity transplantation. A review of its current state of development. *J Hand Surg [Am]* 18:153-159, 1993.

- Nolan LM, Bowen CVA and Boyer MI. Skeletal fixation in the rabbit knee transplantation model. *Microsurgery* 13:291-292, 1992.
- Richards RS, Bowen CVA and Glynn MFX. Microsurgical free flap transfer in sickle cell disease. *Ann Plast Surg* 29:278-281, 1992.
- Forrest CR, Boyd JB, Manktelow RT, Zuker RM and Bowen CVA. The free vascularised iliac crest tissue transfer: donor site complications associated with eighty-two cases. *Brit J Plast Surg*, 45:89-93, 1992.
- Bowen CVA, Beveridge J, Milliken RG and Johnston GHF. Rotating shaft avulsion amputations of the thumb. *J Hand Surg [Am]* 16:117-121, 1991.
- Guest Editor for 'Frontiers in Microsurgery' section entitled Veterinary Microvascular Surgery. Introduction. *Microsurgery* 12:102, 1991.
- Miller CW, Fowler JD, Bowen CVA and Chang P. Experimental and clinical free cutaneous transfers in the dog. *Microsurgery* 12:113-117, 1991.
- Basher AWP, Fowler JD and Bowen CVA. Free tissue transfer of digital foot pads for reconstruction of the digital limb in the dog. *Microsurgery* 12:118-124, 1991.
- Remedios AM, Bauer MS, Bowen CVA and Fowler JD. Axial pattern skin flaps in cats. *Microsurgery* 12:125-129, 1991.
- Lees MJ, Fretz PB, Bowen CVA and Leach DH. Experimental cutaneous free flap transfers in the horse. *Microsurgery* 12:130-135, 1991.
- Fowler JD, Levitt L and Bowen CVA. Microsurgical free bone transfer in the dog. *Microsurgery* 12:145-150, 1991.
- Basher AWP, Fowler JD, Bowen CVA, Clark EG and Crosby NL. Microneurovascular free digital pad transfer in the dog. *Vet Surg* 19:226-231, 1990.

Lees MJ, Bowen CVA, Fretz PB and Leach DH. Identification of a free skin flap from the region vascularized by the deep circumflex iliac artery of horses. *Am J Vet Res* 51:796-799, 1990.

Lees MJ, Bowen CVA, Fretz PB and Leach DH. Transfer of deep circumflex iliac flaps to the tarsus by microvascular anastomosis in the horse. *Vet Surg* 18:292-299, 1989.

Report of the 1987 ABC Traveling Fellows. *J Bone Joint Surg [Am]* 70:784-789, 1988.

Mierau D, Cassidy JD, Bowen CVA, Dupuis P and Noftall F. Manipulation and mobilization of the third metacarpophalangeal joint. A quantitative radiographic and range of motion study. *Manual Medicine* 3:135-140, 1988.

Johnston GHF and Bowen CVA. Attritional flexor tendon ruptures by an old lunate dislocation. *J Hand Surg [Am]* 13:701-703, 1988.

Yong-Hing K, Wedge JW and Bowen CVA. Chronic injuries to the distal ulnar and radial growth plates in an adolescent gymnast. A case report. *J Bone Joint Surg [Am]* 70:1087-1089, 1988.

Bowen CVA, Hochban T and Johnston GHF. Angular deformity in fractures of the fifth metacarpal. *Advances in Orthopaedic Surgery* 11:214-217, 1988.

Bowen CVA, O'Brien BMcC and Gumley GJ. Experimental microvascular free growth plate transfers. Part 2. Investigation of feasibility. *J. Bone Joint Surg [Br]* 70:311-314, 1988.

Bowen CVA, Ethridge CP, O'Brien BMcC, Frykman GK and Gumley GJ. Experimental microvascular free growth plate transfers. Part I. Investigation of vascularity. *J Bone Joint Surg [Br]* 70:305-310, 1988.

Bowen CVA and Chang P. An operating table for surgery of the hand. *Plast Reconstr Surg* 81:270-273, 1988.

- Bowen CVA, Johnson J, Boyle J and Snelling CFT. Tetanus - A continuing problem in minor injuries. *Can J Surg* 31:7-9, 1988.
- Levitt L, Fowler JD, Longley M, Bowen CVA and Wilkinson AA. A developmental model for free vascularized bone transfers in the dog. *Vet Surg* 17:194-202, 1988.
- Bowen CVA, Dzus AK and Hardy DA. Osteoid osteomata of the distal phalanx. *J. Hand Surg [Br]* 12:387-390, 1987.
- McKerrell J, Bowen CVA, Johnston GHF and Zondervan J. Boxers' fractures. Conservative or operative treatment? *J Trauma* 27:486-490, 1987.
- Thomas E, Holden FA, Bowen CVA and Silver WA. Osteomyelitis due to *Haemophilus aphrophilus*. *Can Med Assoc J* 136:841-842, April 15, 1987.
- Bowen CVA, Loback D and Tokaryk R. Snowblower injuries to the hand. *Can J Surg* 30:111-112, 1987.
- Miller CW, Bowen CVA and Chang P. Microvascular distant transfer of a cervical axial-pattern skin flap in a dog. *J Am Vet Med Assoc* 190:203-204, 1987.
- Fowler JD, Miller CW, Bowen CVA and Johnston GHF. Transfer of free cutaneous flaps by microvascular anastomosis. Results in six dogs. *Vet Surg* 16:446-450, 1987.
- Bowen CVA. Experimental free vascularized epiphyseal transplants. *Orthopaedics* 9:893-898, 1986.
- Miller CW, Chang P and Bowen CVA. Identification and transfer of free cutaneous flaps by microvascular anastomosis in the dog. *Vet Surg* 15:199-204, 1986.
- Miller CW, Holmberg DL, Bowen CVA, Pharr JW and Kruth S. Microsurgical management of Tetralogy of Fallot in a cat. *J Am Vet Med Assoc* 186:705-709, 1985.

Gropper PT and Bowen CVA. Cerclage wiring of metacarpal fractures. *Clin Orthop* 188:203-207, 1984.

Gropper PT, Pisesky WA, Bowen CVA and Clement P. Flexor tenosynovitis caused by *Coccidioides immitis*. *J Hand Surg* 8:344-347, 1983.

Bowen CVA and Cassidy JD. Macroscopic and microscopic anatomy of the sacroiliac joint from embryonic life until the eighth decade. *Spine* 6:620-628, 1981.

Bowen CVA, Shannon R and Kirkaldy-Willis WH. Lumbar spinal stenosis: A review article. *Child's Brain* 4:257-277, 1981.

2) Books and/or Chapters in Books Published:

Casey H and Bowen CVA. Fractures and dislocations in the hand. *In: Handbook of Plastic Surgery*. Steven E. Greer (ed), Marcel Dekker Inc., New York, Chapter 69, 2004.

Kaufman DL, Bloom H and Bowen CVA. Wrist injuries. *In: Handbook of Plastic Surgery*. Steven E. Greer (ed), Marcel Dekker Inc., New York, Chapter 70, 2004.

Casey H, Bloom H, Le T, Bowen CVA and Malizos KN. Thumb and finger reconstruction with microsurgical techniques. *In Reconstructive Microsurgery*. Malizos KN (ed), Landes Bioscience, Georgetown, pp135-153, 2003.

Zhong T and Bowen CVA. Microvascular Surgical Techniques. *In Reconstructive Microsurgery*. Malizos KN (ed), Landes Bioscience, Georgetown, pp1-7, 2003.

Le TB and Bowen CVA. Ulna shortening osteotomy. *In Master Techniques in Orthopaedic Surgery. The Wrist*. Gelberman RH (ed), Lippincott Williams and Wilkins, Philadelphia, pp307-321, 2002.

Bowen CVA, Bray PW and Boyer MI. Vascularised Epiphyseal Plate Transplantation. *In Surgery of the Growth Plate*. Julio de Pablos (ed.). Ergon, Madrid, pp126-139, 1998.

- Bowen CVA. Epiphyseal Plate Transplantation: Clinical and Research Directions. *In Proceedings of the International Federation of Societies of Surgery of the Hand*. CIC Edizioni Internazionali, Rome, pp489-493, 1998.
- Bray PW, Boyer MI and Bowen CVA. Complex injuries of the forearm - coverage considerations. *In Hand Clin North America*. Moy OJ (ed), Vol 13, No. 2, pp263-278, May 1997.
- Bowen CVA and Bray PW. Amputation of the thumb. *In Emergency Surgery*. Zivorad D, Titrovic M and Sukalo M (eds), CIC Edizioni Internazionali, Rome, pp34-40, 1996.
- Bowen CVA and Tomaino M. Vascularised Bone Transfers. *In Surgery of the Hand and Upper Extremity*. CA Peimer (ed), McGraw-Hill, New York, pp1941-1974, 1996.
- Bowen CVA and Weinberg M. Overuse syndrome: A common soft tissue cause of wrist pain. *In Wrist disorders. Current concepts and challenges*. R Nakamura, RL Linscheid and T Miura (eds.), Springer-Verlag, Tokyo, pp247-251, 1992.
- Bowen CVA. MANUS, the Canadian Society for Surgery of the Hand. 1974-1990. *In Medical Specialty Societies of Canada*. TP Morley (ed), The Boston Mills Press, Erin, Ontario, pp165-172, 1991.
- Bowen CVA. Assistant Editor for section on Agricultural Trauma. *In: Principles of Health and Safety in Agriculture*. (Dosman JA, Cockcroft DW, eds). CRC Press, Boca Raton, 1989.
- Bowen CVA. Agricultural Injuries to the Upper Extremity. *In Principles of Health and Safety in Agriculture*. James A Dosman and Donald W Cockcroft (eds), CRC Press, Boca Raton, pp352-354, 1989.
- Bowen CVA. Microsurgical Growth Plate Transfers. *In Behaviour of the Growth Plate*. Hans K Uthoff and James J Wiley (eds), Raven Press, New York, pp55-59, 1988.

Kirkaldy-Willis WH, Heithoff KB, Tchang S, Bowen CVA and Cassidy JD. Lumbar Spondylosis and Stenosis: Correlation of Pathological Anatomy with High Resolution Computed Tomography Scanning. Chapter 32 *In* Computed Tomography of the Spine. J Donovan Post (ed.), Williams & Wilkins, pp546-569, 1984.

Kirkaldy-Willis WH, Heithoff KB, Bowen CVA and Shannon R. Pathological Evaluation of Lumbar Spondylosis and Stenosis Correlated with the CT Scan. *In* Radiographic Evaluation of the Spine. Judith Donovan Post (ed.), Masson Publishing, New York, pp34-55, 1980.

3) **Non-Refereed Publications:**

Bowen CVA. The importance of medical history and physical examination in the diagnosis of the painful wrist. Newsletter. American Society for Surgery of the Hand 2009.

Bowen CVA, Book review of "The Hand. Volume IV, edited by Raoul Tubiana. (First published in French by Masson, Paris, 1991). English translation published by WB Saunders Company, 1993. ISBN 0-7216-8910-8". *Can J Surg* 37:171, 1994.

Bowen CVA and Dindar F. How to recognise and treat carpal tunnel syndrome. *Patient Care* 4:16-23, 1993.

Boyer MI, Wedge JH and Bowen CVA. Recognizing tibial osteomyelitis in children and adults. *Can J Diag* 10:139-156, 1993.

Bowen CVA. Replantation of amputated extremities. *Bodycast* (Journal of the Canadian Society of Orthopaedic Technologists) 6:10-13, 1991.

Bowen CVA. Book review of "Microsurgical Tissue Transplantation, edited by D. Riediger and M. Ehrenfeld. Quintessence Publishing Company, Inc., Lombard, Illinois, 1989. ISBN 0-86715-219-2". *Microsurgery* 11:80, 1990.

Bowen CVA, Manktelow RT and Boyd JB. Evaluating the injured hand quickly and effectively. *Can J Diag* 7:43-57, 1990.

- Bowen CVA, Manktelow RT and Boyd JB. Microsurgical bone transplantation. *Transplantation Implantation Today* 5:27-31, 1989.
- Bowen CVA and Manktelow RT. Initial management of hand injuries. *Emerg Med* 21:131-142, 1989.
- Bowen CVA. Reconstructive microsurgery: Historical background, application and techniques for small blood vessel repair. *Transplantation Implantation Today* 5:37-43, 1988.
- Bowen CVA. Boxer's fractures: minor but controversial injuries. *Bodycast (Journal of the Canadian Society of Orthopaedic Technologists)* 3:8-10, 1988. (*Awarded the Smith and Nephew Award*).
- Bowen CVA. Book review of "Methods and Concepts in Hand Surgery, by N. Watson and R.J. Smith. Butterworth's London, 1986. ISBN 0-407-00428-9". *Can J. Surg.* 30:347, 1987.
- Bowen CVA. Microsurgical growth plate transplantation. *Transplantation Implantation Today* 4:17-27, 1987.
- Bowen CVA. Microsurgery and Bone Growth. *Medscan (A College of Medicine, University of Saskatchewan, Publication)* 1:1-3, 1986.
- Bowen CVA. Book review of "The Hand: Diagnosis and Indications, 2nd Ed., by Dr. Graham Lister. Churchill Livingstone, Edinburgh/London/Melbourne/New York". *The Medical Post*, February 5, 1985.
- Bowen CVA and O'Brien BMcC. Reconstructive microvascular surgery. *Ambulance World* 7:7-17, 1983.