

SHEINA ANNE MACADAM M.D.

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EDUCATION

Masters Science	Clinical Epidemiology, 2007-2008, Harvard University
Certification of the American College of Surgeons	Diplomate of the ABPS, November 2010
Fellowship of the Royal College of Physicians and Surgeons of Canada	FRCSC Plastic Surgery, May 2007
Medical Doctorate	MD, June 2002, University of British Columbia
Bachelor of Science	BScHnrs, June 1998, McGill University

POSTDOCTORAL TRAINING

Plastic Surgery Resident	University of British Columbia 2004-2007 University of Alberta 2002-2004
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CURRENT POSITION

Clinical Assoc. Professor	Division of Plastic Surgery, Department of Surgery Vancouver General Hospital
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PROFESSIONAL MEMBERSHIPS

Member	Canadian Society of Plastic Surgeons 2001-Present BC Medical Association 2001- Present Royal College of Physicians and Surgeons 2007-Present Canadian Journal of Plastic Surgery Editorial Board 2011-Present
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HONORS & AWARDS

2014 Best Paper Award PRS: Breast	Research Award (2015)
Hjalmer Young Investigator Award	UBC Department of Surgery Award (2014)
Women of Distinction Nomination	Vancouver YWCA (2013)
Mentored Clinician Scientist Award	Vancouver Research Institute Salary Award (2012)
UBC Concept Award	Research Award (2007)
IB Holubitsky Memorial Award	Excellence in a Surgical Residency (2007)
FM Woolhouse Award	Research Award (2005)
William, Sadie and Edwin Rowan Scholarship in Medicine.	Academic Achievement (2002)
Thomas and Myrtle Gibson Scholarship in Medicine.	Academic Achievement (2001)
David and Anne Beach Scholarship in Medicine.	Academic Achievement (2000)
B.C. Cancer Studentship.	The Canadian Cancer Society (1998)

HONORS & Awards

James McGill Entrance Scholarship	June 1994
Canada Scholarship Science & Engineering	June 1994
The Provincial Government Award	June 1994

INSTITUTIONAL/ HOSPITAL AFFILIATIONS

Mercy Hospital	Baltimore MD November 1 2007 – March 1 2008
Vancouver General Hospital	Vancouver BC March 1 2008 – Present

INVITED PRESENTATIONS

Macadam SA. (2017) Becoming a Surgeon. Quantum Leaps Conference. SFU, Burnaby, BC, Canada.

Macadam SA. (2015) Quality of Life and Patient Reported Outcomes in Breast Cancer Survivors: A Multicenter Comparison of Four Abdominally-Based Autologous Reconstruction Methods. Canadian Society of Plastic Surgery 69th Annual Meeting. Victoria, BC, Canada.

Macadam SA. (2015) Quality of Life and Patient Reported Outcomes in Breast Cancer Survivors: A Multicenter Comparison of Four Abdominally-Based Autologous Reconstruction Methods. American Society of Plastic Surgery The Meeting. Boston, MA, USA.

Macadam SA. (2015) Quality of Life and Patient Reported Outcomes in Breast Cancer Survivors: A Multicenter Comparison of Four Abdominally-Based Autologous Reconstruction Methods. UBC Chung Research Day. Vancouver, BC, Canada.

Macadam SA. (2015) Becoming a Surgeon. Career Day, York House School. Vancouver, BC, Canada.

Macadam SA. (2014) Breast Reconstruction: State of the Art. Surgical Oncology Network Fall Meeting. Vancouver BC, Canada.

Macadam SA. (2014) Implants and Breast Reconstruction: Past, Present and Future. Canadian Society of Plastic Surgery 68th Annual Meeting. Montreal, QC, Canada.

Macadam SA. (2013) Direct-to-implant single stage immediate breast reconstruction with acellular dermal matrix: predictors of failure. Northwest Society of Plastic Surgery Annual Meeting. Maui, HI, USA.

Macadam SA. (2011) Direct-to-Implant Breast Reconstruction Using AlloDerm: A Cost Analysis. Lifecell Symposium International Plastic and Reconstructive Surgery Meeting. Vancouver, BC, Canada.

Macadam SA. (2010) Body Augmentation: The Allure of the Hourglass Figure. BodyWorlds Exhibition. Vancouver, BC, Canada.

Macadam SA. (2010) Nipple-Sparing Mastectomy and Immediate Reconstruction in Locally Advanced Breast Cancer Patients. British Columbia Breast Tumor Group Meeting. Vancouver, BC, Canada.

Macadam SA (2010) DIEP Breast Reconstruction: A Critical Review of 100 Cases. Plastic Surgery Grand Rounds. Vancouver, BC, Canada.

Macadam SA. (2010) Alloderm in Post-Mastectomy Alloplastic Breast Reconstruction. Dollars and Cents: The UBC Experience. Lifecell Canadian Breast Reconstruction Forum. Whistler, BC, Canada.

Macadam SA. (2009) Patient Satisfaction and Quality of Life Following Alloplastic Breast Reconstruction: A Comparison of Patient-Reported Outcomes Amongst Saline and Silicone Recipients. Canadian Society of Plastic Surgeons Annual Meeting. Kelowna, BC, Canada.

Macadam SA. Paradigm Shift: Drafting a New Blueprint for Research. Plastic Surgery Grand Rounds. Vancouver, BC, Canada.

Macadam SA. (2008) Simple decompression versus Anterior Transposition for Cubital Tunnel Syndrome: A Meta-Analysis. Northwest Society of Plastic Surgery Annual Meeting. HI, USA.

Macadam SA. (2007) Subfascial versus Subpectoral Breast Augmentation: Is There a Difference in Rate of Capsular Contracture? Northwest Society of Plastic Surgery Annual Meeting. Lanai, HI, USA.

**INVITED
PRESENTATIONS**

Macadam SA. (2006) Fat Necrosis Rates in Free TRAM Flap Breast Reconstruction: Incidence Rates Using the Thoracodorsal and Internal Mammary Recipient Vessels. Resident's Corner. Canadian Society of Plastic Surgeons Annual Meeting. Quebec City, PQ, Canada.

Macadam SA. (2005) The Plastic Surgery Workforce Survey: Interpretation and Implications. Resident's Corner. Canadian Society of Plastic Surgeons Annual Meeting. Nanaimo, BC, Canada.

Macadam SA. (2004) Periprosthetic Nontuberculous Infection in Two Canadian Centres. A Retrospective Case Series and Review of the Literature. Resident's Corner. Canadian Society of Plastic Surgeons Annual Meeting. Hamilton, ON, Canada.

Macadam SA. (2003) Retrospective Case Review of Capsular Contracture After Two-stage Breast Reconstruction. Does Colonization of the Tissue Expander Pocket Correlate With Subsequent Implant Capsular Contracture? Resident's Corner. Canadian Society of Plastic Surgeons Annual Meeting. Whistler, B.C., Canada.

Lennox PA, Bovill E, **Macadam SA.** Evidence-Based Medicine: Alloplastic Breast Reconstruction. *Plast Reconstr Surg.* 140(1):94e-108e 2017.

Macadam SA., Bovill E, Buchel E, Lennox PA Evidence-Based Medicine: Autologous Breast Reconstruction. *Plast Reconstr Surg.* 139(1):204e-229e 2017.

Knox ADC, Ho AL, Hynes S, Tashakkor Y, Leung L, Park Y, **Macadam SA,** Bowman C. A Review of Subcutaneous Mastectomies and Male Chest Contouring in Female to Male Transgendered Patients – The UBC Experience *Plast Reconstr Surg* 139(6):1260e-1272e 2017.

Macadam SA., Zhong T, Lennox PA et al. Quality of Life and Patient Reported Outcomes in Breast Cancer Survivors: A Multicenter Comparison of Four Abdominally-Based Autologous Reconstruction Methods *Plast Reconstr Surg.* 137(3):758-71 2016.

Knox ADC, Ho AL, Tashakkor Y, Lennox PA, Van Laeken N, **Macadam SA.** Comparison of Outcomes Following Autologous Breast Reconstruction using the DIEP and Pedicled TRAM Flap: A 12 Year Clinical Retrospective Study and Literature Review *Plast Reconstr Surg* Jul;138(1):16-28 2016.

Song D, Slater KN, Lennox P, Van Laeken N, Zhong T, Hazen A, Vidal DC, Pusic A, **Macadam SA.** Autologous Breast Reconstruction In women Over vs. Under 65 Years of Age: A Multi-Centre Analysis *Ann Plast Surg.* 76(2):155-63 2016.

Abedi N, Knox A, Ho AL, Tashakkor Y, Omeis T, Van Laeken N, Lennox PA, **Macadam SA.** Predictors of Mastectomy Flap Necrosis in Patients Undergoing Immediate Breast Reconstruction. *Ann Pl Surg* 76(6):629-34 2016.

Gdalevitch P, Van Laeken N, Bang J, Ho AL, Bovill E, Lennox PA, **Macadam SA.** Effects of Nitroglycerin Ointment on Mastectomy Flap Necrosis in Immediate Breast Reconstruction: A Randomized Controlled-Trial. *Plast Reconstr Surg* 135(6):1530-1539 2015.

Matros E, Albornoz CR, Razdan S, **Macadam SA,** Ro T, Cordeiro PG, Mehrara BJ, McCarthy CM, Disa JJ, Pusic AL. Cost-Effectiveness Analysis of Implants vs. Autologous Perforator Flaps Using the BREASTQ. *Plast Reconstr Surg.* 135(4):937-946 2015.

Genoway K, Leung L, Tyldesley S, Knox A, **Macadam SA.** Effects of Chemotherapy and Radiotherapy on Outcomes in Immediate vs Delayed Autologous Breast Reconstruction (Submitted *J Clin Onc*)

Albornoz CR, Matros E, McCarthy CM, Klassen A, Cano SJ, Alderman AK, VanLaeken N, Lennox P, **Macadam SA.** Disa JJ, Mehrara BJ, Cordeiro PG, Pusic AL. Implant breast reconstruction and radiation: a multicenter analysis of long-term health-related quality of life and satisfaction. *Ann Surg Onc.* 21(7):2159-64, 2014.

Gdalevitch P, Ho AL, Genoway K, Alvrtsyan H, Bovill E, Lennox P, Van Laeken N, **Macadam SA.** Direct-to-Implant Single-Stage Immediate (DISSI) Breast Reconstruction with Acellular Dermal Matrix: Predictors of Failure *Plast Reconstr Surg* 133(6):738-747e 2014.

Ho A, Tyldesley S, **Macadam SA,** Lennox PA. Postmastectomy Radiation Therapy after Immediate Two-Stage Tissue Expander/Implant Breast Reconstruction: A University of British Columbia Perspective *Plast Reconstr Surg* 134(1):1e-10e 2014.

**PEER
REVIEWED
PUBLICATIONS**

**PEER
REVIEWED
PUBLICATIONS**

- Zhong T, Bagher S, Kunaal J, Delong Z, O'Neill A, **Macadam SA**, Butler K, Hofer S, Pusic A, Metcalfe K. The Influence of Dispositional Optimism on Decision Regret to Undergo Major Reconstructive Surgery *J Surg Onc* 108(8):526-30 2013.
- Macadam SA**, Ho AI, Lennox PA, et al. Patient Satisfaction and Health-Related Quality of Life Following Breast Reconstruction : A Comparison of Patient-Reported Outcomes Amongst Shaped Cohesive Gel and Round Silicone Implant Recipients. *Plast Reconstr Surg* 131(3):431-41 2013.
- Macadam SA**, Lennox PL. Acellular Dermal Matrices: Use in Reconstructive and Aesthetic Breast Surgery (Review) *Can J of Plast Surg* 20(2):75-89 2012.
- Jansen LA, Hynes SL, **Macadam SA**, et al. Reduced Length of Stay for Burn Patients Following a Change in Practice Guidelines: Financial Implications *J Burn Care Res* 33(6): 275-79 2012.
- Tashakkor Y, **Macadam SA**. Lower Extremity Anterior Compartment Syndrome Complicating Bilateral Mastectomy and Immediate Breast Reconstruction: A Case Report and Review of Literature *Can J of Plast Surg* 20(2):103-106 2012.
- Macadam SA**, Lennox PA. Acellular Dermal Matrices: Economic Considerations in Reconstructive and Aesthetic Breast Surgery *Clinics in Plastic Surgery* 39(2) 2012.
- Lefaiivre KA, Slobogean G, Valeriote J, O'Brien PJ, **Macadam SA**. Reporting and Interpretation of the Functional Outcomes After the Surgical Treatment of Disruptions of the Pelvic Ring: A Systematic Review *J Bone Joint Surg Br* 94(4). 2012.
- Ho A, Lennox P, **Macadam SA**, Tyldesley S. Skin-Sparing Mastectomy and Immediate Autologous Breast Reconstruction in Locally Advanced Breast Cancer Patients: A UBC Perspective. *Ann Surg Onc* 19:892-900 2012.
- Jansen L, **Macadam SA**. The Use of AlloDerm in Post-Mastectomy Alloplastic Breast Reconstruction: A Systematic Review. *Plast Reconstr Surg* 127(6) 2011.
- Jansen L, **Macadam SA**. The Use of AlloDerm in Post-Mastectomy Alloplastic Breast Reconstruction: A Cost Analysis. *Plast Reconstr Surg* 127(6) 2011.
- Kropf N, **Macadam SA**, McCarthy C, Disa JL, Pusic AL, Da Lio A, Crisera C, Mehrara BJ. Influence of the recipient vessel on fat necrosis after breast reconstruction with a free transverse rectus abdominis myocutaneous flap. *J Plast Surg & Hand Surg*. 44(2) 2010.
- Macadam SA**, Ho A, Lennox P, Pusic A. Patient Satisfaction and Quality of Life Following Alloplastic Breast Reconstruction: A Comparison of Patient-Reported Outcomes Amongst Saline and Silicone Recipients. *Plast Reconstr Surg*. 125 (3) 2010.
- Yau FM, **Macadam SA**, Kuusk UA *et al.* The Surgical Management of Granulomatous Mastitis. *Annals of Plastic Surgery* 64(1) 2010.
- Macadam SA**, Bezuhly M, Lefaiivre KA. Outcomes Measures Used to Assess Results After Surgery for Cubital Tunnel Syndrome: A Systematic Review of the Literature. *Journal of Hand Surgery (Am)* 34(8) 2009.
- Lefaiivre KA, **Macadam SA**, Davidson DJ *et al.* Length of Stay, Mortality, Morbidity and Delay to Surgery in Hip Fractures. *Journal of Bone & Joint Surgery (Br)* 91B(7) 2009.
- Macadam SA**, Gandhi R, Bezuhly M *et al.* Simple decompression versus Anterior Transposition for Cubital Tunnel Syndrome: A Meta-Analysis. *Journal of Hand Surgery (Am)*. 33(8) 2008.
- Macadam SA**, Kennedy S., Anzarut A, *et al.* The Plastic Surgery Workforce Survey: Interpretation and Implications *Plastic & Reconstructive Surgery* 119(7) 2007.
- Macadam SA**, Mehling BM, Dufton JA, *et al.* Periprosthetic Nontuberculous Infection in Two Canadian Centres. A Retrospective Case Series and Review of the Literature *Plastic & Reconstructive Surgery* 119(1) 2007.
- Macadam SA**, Clugston PA, Germann ET. Retrospective Case Review of Capsular Contracture After Two-Stage Breast Reconstruction. Does Colonization of the Tissue Expander Pocket Correlate With Subsequent Implant Capsular Contracture? *Annals of Plastic Surgery* 53(5) 2004.
- Macadam SA**, Cimolai N. Anti-Mycoplasma Pneumoniae Secretory Antibody in Human Breast Milk. *Diagnostic Microbiology and Infectious Disease*. 43 2002.
- Wong FMP, **Macadam SA**, Kim A, *et al.* A Lipid-Based Delivery System for Antisense Oligonucleotides Derived From a Hydrophobic Complex. *Journal of Drug Targeting*. 10(8) 2002.

WORK IN PROGRESS

Bovill E, Macadam SA. Breast Reconstruction in the BRCA+ Patient: Does Breast Reconstruction Increase Wait Time to Prophylactic Mastectomy?

Ho A, Macadam SA, Lennox PA. The Use of Botulinum Toxin-A in Two-stage Tissue Expander/Implant Reconstruction – A Randomized Controlled Trial.

Seal S, Martin M, Lennox PA, Macadam SA. Preoperative and Postoperative Assessment of Rectus Abdominis Muscle Size and Function Following Deep Inferior Epigastric Perforator (DIEP) Surgery

Zhong T, Brown M, Hofer S, Semple J, Macadam SA et al. One-stage Breast Reconstruction Using Dermal Matrix/Implant Versus Two-stage Expander/Implant Reconstruction.

RESEARCH SUPPORT

Granting Agency: CIHR

Project Title: *“Development of a national Quality Improvement Program in Postmastectomy Breast Reconstruction to Optimize Patient-Centred Experience”*

Role: Program Expert. Principle Investigator: Dr T Zhong.

Amount: \$860,000 01/2016-06/2018.

Granting Agency: Canadian Society of Plastic Surgery Education Foundation

Project Title: *“Effects of Nitroglycerin Ointment on Mastectomy Flap Necrosis in Immediate Alloplastic Breast Reconstruction: A Randomized Controlled-Trial”*

Role: Co-investigator. Principle Investigator: Dr P Gdalevitch.

Amount: \$10,000 06/2013-06/2014.

Granting Agency: Canadian Breast Cancer Foundation

Project Title: *“Breast Reconstruction in the BRCA+ Patient: Does Breast Reconstruction Increase Wait Time to Prophylactic Mastectomy?”*

Role: Co-investigator. Principle Investigator: Dr E Bovill.

Amount: \$80,000 06/2013-06/2014.

Granting Agency: Canadian Breast Cancer Foundation

Project Title: *“The Use of Botulinum Toxin-A in Two-stage Tissue Expander/Implant Reconstruction”*

Role: Co-investigator. Principle Investigator: Dr A Ho.

Amount: \$137,000 06/2011-06/2013.

Granting Agency: Canadian Breast Cancer Foundation Research

Project Title: *“Quality of Life and Patient Reported Outcomes of Reconstruction in Breast Cancer Survivors”*

Role: Principal Investigator.

Amount: \$115,000 11/2010-11/2013.

Granting Agency: University of British Columbia Center for Surgical Excellence

Project Title: *“Measuring Patient Satisfaction and Health-Related quality of Life Following Breast Reconstruction: A comparison of Patient-reported outcomes among saline and silicone implant recipients”.*

Role: Principle Investigator.

Amount: \$5000 09/2008-09/2009.

**RESEARCH
ACTIVITY**

Surgeon scientist representative for the UBC Clinical Investigator Program
Reviewer for The Canadian Journal of Plastic Surgery
Reviewer for The Canadian Journal of Surgery
Reviewer for The Journal of Brachial Plexus and Peripheral Nerve Injury

CERTIFICATES

Basic Life Support (2011)
AO/ASIF Course (2006)
Advanced Burn and Life Support (2005)
Advanced Cardiac Life Support (2002)
Advanced Trauma and Life Support (2002)
Pediatric Advanced Cardiac Life Support (2002)

**MEDIA
APPEARANCES**

Global TV Morning Live "Breast Reconstruction Awareness Day"
Wednesday October 17, 2012.
<http://www.globalltvc.com/video/breast+reconstruction+awareness+day/video.html?v=2293649695&p=1&s=dd#quests>

CTV Your Health with Rhonda Low "Breast Reconstruction Awareness Day"
Tuesday October 16, 2012.
<http://bc.ctvnews.ca/video?clipId=785356&playlistId=1.998796&binId=1.821980>

Article Vancouver Sun November 1 2012: Battle Scars: Rebuilding After Breast Cancer
<http://www.vancouversun.com/health/women/battle-scars/index.html>

<http://www.vancouversun.com/health/women/Handful+Canadian+doctors+offer+nipple+sparing+mastectomy/7470944/story.html>

<http://www.vancouversun.com/health/women/Surgeons+debate+ways+improve+patient+access+breast/7458934/story.html>

Article Vancouver Sun October 24 2015: Creating New Breasts From Patient Tissue Gains Popularity
<http://www.vancouversun.com/health/Creating+breasts+from+patient+tissue+gains+popularity/11463354/story.html>

CKNW Radio Interview October 27 2015: Breast Reconstruction Awareness

CBC Radio Interview (On the Coast with Stephen Quinn) October 28 2015: Breast Reconstruction Awareness & Wait Times

Other

Breast Reconstruction and the Family Practitioner *J of Fam Prac Onc.* Issue 26, Spring 2016.
Medical consultant to CTV series "Motive". Series 3, Episode 10, 2015.
Medical consultant to movie "Brain on Fire", 2015.