

CURRICULUM VITAE

Ram V. Anantha, MD MSc FRCSC
Room 201 Community Services Centre
Royal Alexandra Hospital
10240 Kingsway Avenue NW
Edmonton, Alberta
Canada, T5H 3V9
Email: ram.anantha@ahs.ca
Phone: 1.780.613.5790

UNDERGRADUATE EDUCATION

2006-2010 **Doctor of Medicine**, University of Ottawa, Ottawa, ON
2002-2006 **Bachelor of Science** with Honours in Biopharmaceutical Sciences, University of Ottawa,
Ottawa, ON

POSTGRADUATE TRAINING

2017-2018 **Fellowship (Trauma/Acute Care Surgery)**, Wake Forest University, Winston-Salem, NC
2016-2017 **Fellowship (Surgical Critical Care)**, Wake Forest University, Winston-Salem, NC
2012-2014 **Master of Science (Microbiology and Immunology)**, Western University, London, ON
2012-2014 **Clinical Investigator Program**, Royal College of Physicians and Surgeons of Canada
2010-2016 **General Surgery Residency**, Western University, London, ON

EMPLOYMENT

2018-present Clinical Lecturer, Trauma and Acute Care Surgery, University of Alberta, Edmonton,
Alberta, Canada
2017-2018 Clinical Instructor in Trauma/Acute Care Surgery, Wake Forest Baptist Medical Center,
Winston-Salem, NC
2017-2018 Locum General Surgeon, Wilkes Medical Center: Wake Forest Baptist Health, Wilkesboro,
NC

LICENSURE

2018 College of Physicians and Surgeons of Alberta (CPSA) License Number 029453
2016-2018 North Carolina Medical Board State License Number 2016-01236
2016-2018 College of Physicians and Surgeons of Ontario (CPSO) License Number 93402
2016 Fellow of the Royal College of Surgeons of Canada (FRCSC)
2016 United States Medical Licencing Examination (USMLE) Step 3 (Pass)
2016 Advanced Surgical Skills for Exposure in Trauma (ASSET) Course

2016	Licentiate, Advanced Cardiac Life Support (ACLS) Provider Re-certification Course
2016	United States Medical Licencing Examination (USMLE) Step 2 Clinical Skills (Pass)
2015	United States Medical Licencing Examination (USMLE) Step 2 Clinical Knowledge (Pass)
2015	Fundamentals of Laparoscopic Surgery (FLS) Exam (Pass)
2014	United States Medical Licencing Examination (USMLE) Step 1 (Pass)
2012	Surgical Foundations Examination, Royal College of Physicians and Surgeons of Canada (Pass)
2011	Licentiate of the Medical Council of Canada Part II Exam (Pass)
2010	Licentiate for Resident Practice (College of Physicians and Surgeons of Ontario)
2010	Licentiate, Advanced Trauma Life Support (ATLS) Course
2010	Licentiate of the Medical Council of Canada Part I Exam (Pass)
2009	Licentiate, Advanced Cardiac Life Support (ACLS) Provider Course

AWARDS, HONOURS

2018-2019	Medical Student Preceptor Award , Medical Students Association, University of Alberta, Edmonton, Alberta
2014	Governor General Gold Medal (nominated) , Western University
2014	Canadian Journal of Surgery Editor's Choice Award , Canadian Association for General Surgeons, Vancouver, British Columbia
2014	Basic Science Award , Canadian Association for General Surgeons, Vancouver, British Columbia
2014	Resident Research Award , Robert Zhong Department of Surgery Research Day, London, Ontario
2014	Resident Travel Reimbursement Award , Postgraduate Medical Education, Schulich School of Medicine and Dentistry, Western University
2014	Resident Research Presentation Award , General Surgery Residents' Research Day, London, Ontario
2014	Presentation Award (1st place) , Western Research Forum, Western University
2013	Resident Travel Reimbursement Award , Postgraduate Medical Education, Schulich School of Medicine and Dentistry, Western University
2013	Travel Award , Advanced Course in Basic and Clinical Immunology, Federation of Clinical Immunology Societies
2013	Poster Award , Infection and Immunity Research Forum, Western University
2013	Poster Award , Young Investigator's Forum- Clinical Investigator Training Association of Canada Annual Conference, Ottawa
2013	Danone Science Award , Department of Microbiology and Immunology, Western University
2013	Western Graduate Research Scholarship , Faculty of Science, Western University
2013	Frederick Banting and Charles Best Canada Graduate Scholarship , Canadian Institutes of Health Research
2013	CSCI/CIHR Resident Research Award , Canadian Society for Clinical Investigation/ Canadian Institutes of Health Research, Royal College of Physicians and Surgeons of Canada

- 2013 **Resident Travel Grant**, Division of General Surgery, Western University
- 2013 **Graduate Student Travel Award**, Department of Microbiology and Immunology, Western University
- 2013 **Ontario Graduate Scholarship (declined)**, Western University
- 2013 **Class of Meds'49 Award for Excellence in Teaching by Resident (Nominated)**, Western University
- 2012 **Novus Biologicals Award for Excellence in Oral Presentation**, Infection and Immunity Research Forum, Western University
- 2012 **Western Graduate Entrance Scholarship**, Department of Microbiology and Immunology, Western University
- 2012 **Western Graduate Research Scholarship**, Faculty of Science, Western University
- 2012 **Resident Research Presentation Award**, General Surgery Residents' Research Day, London, Ontario
- 2011 **Resident Research Poster Award**, Canadian Association for General Surgeons, London, Ontario
- 2011 **Highest standing**, Canadian Association of General Surgeons In-Training Exam, London, Ontario
- 2010-2012 **Nominated for Outstanding Resident Teaching Award**, Division of General Surgery, London, Ontario
- 2006-2010 **Honours standing, Years I, II, III**, Faculty of Medicine, University of Ottawa
Nominated for an award for outstanding clinical performance in psychiatry
Nominated for an award for outstanding clinical performance in family medicine
Nominated for an award for outstanding clinical performance in internal medicine
Nominated for an award for outstanding clinical performance in emergency medicine
- 2007 **Student Research Poster Award**, Faculty of Medicine, University of Ottawa
- 2007 **Summer Student Scholarship**, Faculty of Medicine, University of Ottawa
- 2006 **Professional Training Scholarship**, Faculty of Medicine, University of Ottawa
- 2006 **International Post-graduate Scholarship (declined)**, NSERC
- 2006 **Canada Graduate Scholarship (declined)**, NSERC
- 2006 **Student Research Poster Award**, Faculty of Science, University of Ottawa
- 2005 **Summer Research Fellowship**, Ontario Genomics Institute
- 2005 **NSERC Undergraduate Summer Research Award**, NSERC
- 2004 **NSERC Undergraduate Summer Research Award**, NSERC
- 2002-2003 **Undergraduate Research Scholarship**, University of Ottawa
- 2002-2006 **High Academic Distinction (*Summa Cum Laude*)**, University of Ottawa
- 2002-2006 **Dean's Honours List**, Faculty of Science, University of Ottawa
- 2002-2006 **Entrance Scholarship**, Faculty of Science, University of Ottawa

PUBLICATIONS

Peer-Reviewed Journal Articles:

1. **Anantha RV**, Painter M, Diaz-Garelli F, Nunn AM, Miller PR, Chang MC, Hoth JJ. 2020. Undertriage Despite Use of Geriatric-Specific Trauma Team Activation Guidelines: Who Are We Missing? *American Surgeon* 2020 Oct 7. <https://doi.org/10.1177/0003134820951450>
2. Jiang H, Maclean A, Yoon J, Hughes S, Kim MJ, **Anantha RV**, Widder SL. 2020. Evaluation of trauma resources in rural northern Alberta identifies opportunities for improvement. *Canadian Journal of Surgery* 63(5): E383-E390.
3. **Anantha RV**, Zamiara P, Merritt NH. 2018. Surgical intervention in pediatric trauma at a level 1 trauma hospital: a retrospective cohort study and report of cost data. *Canadian Journal of Surgery* 61(2): 94.
4. **Anantha RV***, Shaler CR*, Meilleur CE, Parfitt J, Haeryfar SM, Hernandez-Alejandro R. 2016. The future liver remnant in patients undergoing the Associating Liver Partition with Portal Vein Ligation for Staged hepatectomy (ALPPS) maintains the immunological components of a healthy organ. *Frontiers in Medicine* 3:32 *- equal contribution.
5. **Anantha RV**, Salvadori M, Hussein M, Merritt N. 2015. Clinical Picture: Abdominal Cocoon Syndrome Caused by *Mycobacterium bovis* from Consumption of Unpasteurized Cow's Milk. *Lancet Infectious Diseases* 15(12):1498.
6. Szabo PA, **Anantha RV**, Shaler CR, McCormick JK, Haeryfar SM. 2015. CD1d- and MR1-restricted T Cells in Sepsis. *Frontiers in Immunology* 6:401.
7. Pepe DL*, **Anantha RV***, Currie M, Chu M, Mele T. 2014. Recalcitrant Prosthetic Valve Endocarditis Requiring Multiple Reconstruction: Running Out of Options. *Canadian Journal of Cardiology* 30(12):1732.e5-e8. *- equal contribution.
8. **Anantha RV***, Jegatheswaran J, Pepe DL, Delpont J, Haeryfar SMM, McCormick JK, Mele T. 2014. Risk factors for mortality among Canadian patients with Staphylococcus aureus bacteremia: a retrospective cohort study. *CMAJ Open* 2(4):E352-E359. *- corresponding author.
9. **Anantha RV**, Mazzuca D, Xu S, Porcelli S, Fraser D, Martin C, Welch I, Mele T, Haeryfar SM, McCormick JK. 2014. Th2-polarized invariant natural killer T cells reduce disease severity in intra-abdominal sepsis. *Clinical Experimental Immunology* 178(2):292-309.
10. Delpont J, Wakabayashi AT*, **Anantha RV***, McCormick J, Lannigan R, John M. 2014. Case Report: *Cellulosimicrobium cellulans* Isolated from a Patient with Acute Renal Failure. *Journal of Medical Microbiology Case Reports* (doi: 10.1099/jmmcr.0.000976). *- equal contribution.
11. Shrum B*, **Anantha RV***, Xu SX, McCormick JK, Mele T. 2014. A Robust Scoring System to Evaluate Sepsis Severity in an Animal Model. *BMC Research Notes*, 7:233. *- equal contribution.

12. **Anantha RV**, Parry N, Vogt KN, Jain V, Crawford S, Leslie K. 2014. The Implementation of an Acute Care Emergency Surgical Service: A Cost Analysis from the Surgeon's Perspective. *Canadian Journal of Surgery*, 57(2):e9-e14.
13. **Anantha RV**, Paskar D, Parry N, Vogt KN, Crawford S, Leslie K. 2014. Allocation of Resources Towards an Acute Surgical Care Service Does not Affect Wait-times for Elective Cancer Operations: A Retrospective Cohort Study. *World Journal of Emergency Surgery*, 9:21.
14. **Anantha RV**, Brackstone M, Parry N, Leslie K. 2014. ACCESS to Surgery: An Acute Care Surgery Service Expedites the Treatment of Patients with Emergency Colorectal Cancer: A Retrospective Case-Control Study. *World Journal of Emergency Surgery*, 9:19.
15. **Anantha RV**, Lim R, Merritt, NH. 2014. Laparoscopic Removal of an Occult Foreign Body Causing Penetrating Abdominal Trauma in a Child. *Canadian Medical Association Journal (CMAJ)* 186(4):285-288.
16. **Anantha RV**, Stewart TC, Rajagopalan A, Walsh J, Merritt NH. 2014. Analgesia in the Management of Pediatric Trauma during the Resuscitative Phase: The Role of the Pediatric Trauma Centre. *Injury*, 45(5):845-849.
17. Ranger AM, Patel YK, Chaudhary N, **Anantha RV**. 2014. Familial Syndromes Associated with Intracranial Tumours: A Review. *Child's Nervous System*, 30(1):47-64.
18. **Anantha RV***, Kasper K, Zeppa JJ, Patterson K, Delpont J, McCormick JK. 2013. Fournier's Gangrene of the Penis Caused by *Streptococcus dysgalactiae* subspecies *equisimilis*: Case Report and Incidence Review in a Tertiary-Care Centre. *BMC Infectious Diseases* 13(1):381. *- corresponding author
19. **Anantha RV**, Chadi SA, Merritt NH. 2013. Trichobezoar Causing Intussusception: Youngest Case of Rapunzel Syndrome in a Boy in North America. *Journal of Pediatric Surgery Case Reports* 1(1): e11-e13.
20. Celo V, **Anantha RV**, Scott SL, Lean DRS. 2004. Methylmercury Artefact Formation During Solid-Phase Extraction of Water Samples Using Sulfhydryl Cotton Fiber Adsorbent. *Analytica Chimica Acta* 516: 171-177.

Peer-Reviewed Abstract Publications:

1. Sun W, Beck J, **Anantha RV**. 2019. Mortality in Blunt Chest Trauma Depends on the Severity of Head Injury: A Single-Center Proportional Hazards Analysis. *Journal of the American College of Surgeons* 229(4): e234-e235.
2. **Anantha RV**, Meilleur C, Shaler R, Parfitt J, Haeryfar SMM, Hernandez-Alejandro R. 2016. Alterations in the immune composition of the liver following ALPPS: A prospective analysis. *HPB* 18 (S1):e135-136.

3. Murphy P, Pepe D, **Anantha RV**, Priestap F, McCormick J, Mele T. 2015. The impact of health care contact and invasive procedures on *Staphylococcus aureus* bacteremia: a 5-year retrospective cohort study. *Can J Surg* 58(4 Suppl 2): S181.
4. **Anantha RV**, Bateman A, Murphy P, Delpont J, Haeryfar SMM, McCormick JK, Mele T. 2015. *Staphylococcus aureus* bacteremia in a pediatric population: a retrospective study in a tertiary-care referral centre. *Can J Surg* 58(4 Suppl 2): S189.
5. Pepe DL, **Anantha RV**, Delpont J, McCormick JK, Mele T. 2015. A prospective interim analysis of microbiological gene expression profile of *Staphylococcus aureus* bacteremia and its clinical implications. *Can J Surg* 58(4 Suppl 2): S192.
6. **Anantha RV**, Jegatheswaran J, Pepe DL, Priestap F, Delpont J, Haeryfar SMM, McCormick JK, Mele T. 2014. Predictors of mortality among Canadian patients with *Staphylococcus aureus* bacteremia: a retrospective cohort study. *Can J Surg* 57 (4 Suppl 1): S108.
7. **Anantha RV**, Mazzuca D, Xu SX, Porcelli S, Fraser D, Martin C, Welch I, Mele T, Haeryfar SMM, McCormick JK. 2014. Polarizing invariant natural killer T cells towards a Th2 phenotype reduces disease severity in intra-abdominal sepsis. *Can J Surg* 57 (4 Suppl 1): S107.
8. Pepe DL, **Anantha RV**, Jegatheswaran J, Delpont J, McCormick JK, Mele T. 2014. Catheter-related bloodstream infections due to *Staphylococcus aureus*: a retrospective review. *Can J Surg* 57 (4 Suppl 1): S108
9. **Anantha RV**, Jegatheswaran J*, Pepe DL*, Delpont J, McCormick JK, Mele T. 2014. Predictors of mortality among intravenous drug users with *Staphylococcus aureus* bacteremia. *Surg Infect (Larchmt)* 15 (Suppl 1): S17.
10. **Anantha RV**, Mazzuca D, Xu SX, Shrum B, Mele T, Fraser D, Martin C, Haeryfar SM, McCormick J. 2014 Mitigation of splenocyte apoptosis by Th2-polarized invariant natural killer T cells reduces disease severity in intra-abdominal sepsis. *Surg Infect (Larchmt)* 15 (Suppl 1): S13.
11. **Anantha RV**, Mazzuca D, Xu SX, Shrum B, Mele T, Fraser D, Martin C, Haeryfar SM, McCormick J. 2013 Polarizing invariant natural killer T cells towards a Th2 phenotype reduces disease severity in intra-abdominal sepsis. *Can J Surg* 56 (4 Suppl 3): S85 (**Winner**).
12. **Anantha RV**, Parry N, Leslie K. 2013. An Acute Care Surgery Service Facilitates the Timely Treatment of Emergency Colorectal Cancer Patients. *Can J Surg* 56 (4 Suppl 3): S91.
13. **Anantha RV**, Bottoni D, Fortin, D, Inculet, R, Malthaner, R. Closed Video-Assisted Thoracoscopic Surgery (VATS) is a Viable Alternative to Thoracotomy to Resect Pulmonary Metastases: Nine Years of Experience at a Single Institution. *Can J Surg* 56 (4 Suppl 3): S112.

14. Choi J, **Anantha RV**, Bottoni D, Fortin, D, Inculet, R, Malthaner, R. 2013. A completely closed VATS technique appears to be superior to thoracotomy for the resection of primary lung cancers: a single-institution experience. *Can J Surg* 56 (4 Suppl 3): S116.
15. Rieder S, **Anantha RV**, Leslie K. 2013. From colonoscopy to colectomy: wait-times for colorectal cancer resection are reduced when diagnostic colonoscopies are performed by general surgeons. 2013. *Can J Surg* 56 (4 Suppl 3): S137.
16. **Anantha RV**, Vogt KN, Crawford S, Parry N, Leslie K. 2012. Implementation of an acute care surgery service does not affect wait-times for elective cancer surgeries: an institutional experience. *Can J Surg* 55(4 Suppl 2): S88-S89.
17. **Anantha RV**, Vogt KN, Crawford S, Parry N, Leslie K. 2011. Impact of an acute surgical care team on the management of general surgical emergencies: an institutional experience. *Can J Surg* 54 (Suppl): S63-S64.
18. **Anantha RV**, Jain V, Vogt KN, Crawford S, Parry N, Leslie K. 2011. The Implementation of an Acute Care Emergency Surgical Service: What Does It Cost Surgeons? *Can J Surg* 54 (Suppl): S69.

PRESENTATIONS

International Meetings:

1. Sun W, Beck J, **Anantha RV**. 2019. Mortality in Blunt Chest Trauma Depends on the Severity of Head Injury: A Single-Center Proportional Hazards Analysis. *Journal of the American College of Surgeons* 229(4): e234-e235.
2. **Anantha RV**, Diaz-Garrelli F, Hess A, Nunn AM, Miller PR, Chang MC, Hoth JJ, Mowery NT. Undertriage Despite Use of Geriatric-Specific Trauma Team Activation Guidelines: Who are we missing? Quickshot paper podium presentation at the 2019 Eastern Association for the Surgery of Trauma Annual Scientific Assembly, Austin, TX.
3. **Anantha RV**, Mazzuca D, Xu SX, Shrum B, Mele T, Fraser D, Martin C, Haeryfar SM, McCormick J. Mitigation of splenocyte apoptosis by Th2-polarized invariant natural killer T cells reduces disease severity in intra-abdominal sepsis. Podium presentation at the 2014 Surgical Infection Society Annual Meeting, Baltimore, MD.
4. **Anantha RV**, Jegatheswaran J, Pepe DL, Delpont J, McCormick JK, Mele T. Predictors of Mortality Among Intravenous Drug Users with *Staphylococcus aureus* Bacteremia. Podium presentation at the 2014 Surgical Infection Society Annual Meeting, Baltimore, MD.
5. Jegatheswaran J, **Anantha RV**, Pepe DL, Delpont J, McCormick JK, Mele T. Infective Endocarditis Among Intravenous Drug Users with *Staphylococcus aureus* Bacteremia. Poster presentation at the 2014 American College of Physicians Annual Meeting, Orlando, FL (**Finalist**).

6. Pepe DL, **Anantha RV**, Jegatheswaran J, Delpont J, McCormick JK, Mele T. Recurrent prosthetic valve endocarditis following valve replacement and aortic root reconstruction for infective endocarditis. Podium presentation at the 2014 American College of Physicians Annual Meeting, Orlando, FL (**Finalist**).
7. **Anantha RV**, Mazzuca D, Xu SX, Shrum B, Mele T, Fraser D, Martin C, Haeryfar SM, McCormick J. Polarizing invariant natural killer T cells towards a Th2 phenotype reduces disease severity in intra-abdominal sepsis. Poster presentation at the 2013 American College of Surgeons Clinical Congress, Washington, D.C.

National Meetings:

1. Murphy P, Pepe D, **Anantha RV**, Priestap F, McCormick J, Mele T. 2015. The impact of health care contact and invasive procedures on *Staphylococcus aureus* bacteremia: a 5-year retrospective cohort study. Poster presentation at the 2015 Canadian Surgical Forum, Quebec City, Quebec.
2. **Anantha RV**, Bateman A, Murphy P, Delpont J, Haeryfar SMM, McCormick JK, Mele T. 2015. *Staphylococcus aureus* bacteremia in a pediatric population: a retrospective study in a tertiary-care referral centre. Poster presentation at the 2015 Canadian Surgical Forum, Quebec City, Quebec.
3. Pepe DL, **Anantha RV**, Delpont J, McCormick JK, Mele T. 2015. A prospective interim analysis of microbiological gene expression profile of *Staphylococcus aureus* bacteremia and its clinical implications. Poster presentation at the 2015 Canadian Surgical Forum, Quebec City, Quebec.
4. **Anantha RV**, Mazzuca D, Xu SX, Shrum B, Mele T, Fraser D, Martin C, Haeryfar SM, McCormick J. Th2-polarized invariant natural killer T cells reduces disease severity in intra-abdominal sepsis. Podium presentation at the 2014 Canadian Surgical Forum, Vancouver, British Columbia (**Winner**).
5. **Anantha RV**, Jegatheswaran J, Pepe DL, Delpont J, McCormick JK, Mele T. Predictors of Mortality Among Patients with *Staphylococcus aureus* Bacteremia. Poster presentation at the 2014 Canadian Surgical Forum, Vancouver, British Columbia.
6. Pepe DL, **Anantha RV**, Jegatheswaran J, Delpont J, McCormick JK, Mele T. Assessment of Catheter-Related *Staphylococcus aureus* bloodstream infections in a Canadian cohort. Poster presentation at the 2014 Canadian Surgical Forum, Vancouver, British Columbia.
7. **Anantha RV**, Parry N, Leslie K. An Acute Care Surgery Service Facilitates the Timely Treatment of Emergency Colorectal Cancer Patients. Poster presentation at the Canadian Surgical Forum, Ottawa, ON.
8. **Anantha RV**, Mazzuca D, Xu SX, Shrum B, Mele T, Fraser D, Martin C, Haeryfar SM, McCormick J. Polarizing invariant natural killer T cells towards a Th2 phenotype reduces disease severity in intra-abdominal sepsis. Podium presentation at the Canadian Surgical Forum, Ottawa, ON.

9. Rieder S, **Anantha RV**, Leslie K. From colonoscopy to colectomy: wait-times for colorectal cancer resection are reduced when diagnostic colonoscopies are performed by general surgeons. Podium presentation at the Canadian Surgical Forum, London, ON.
10. **Anantha RV**, Bottoni D, Fortin, D, Inculet, R, Malthaner, R. Closed CO₂VATS is a Viable Alternative to Thoracotomy to Resect Pulmonary Metastases: Nine Years of Experience at a Single Institution. Poster presentation at the Canadian Association of Thoracic Surgeons Meeting, Ottawa, ON.
11. Choi J, **Anantha RV**, Bottoni D, Fortin, D, Inculet, R, Malthaner, R. A completely closed VATS technique appears to be superior to thoracotomy for the resection of primary lung cancers: a single-institution experience. Poster presentation at the Canadian Association of Thoracic Surgeons Meeting, Ottawa, ON.
12. **Anantha RV**, Mazzuca D, Xu SX, Shrum B, Mele T, Fraser D, Martin C, Haeryfar SM, McCormick J. Th2-polarized invariant natural killer T cells reduce disease severity in intra-abdominal sepsis. Poster presentation at the 2013 Clinician Investigator Trainee Association of Canada/Canadian Society for Clinical Investigation Annual Meeting, Ottawa, ON (**Second Place Winner**).
13. **Anantha RV**, Mazzuca D, Xu SX, Shrum B, Mele T, Fraser D, Martin C, Haeryfar SM, McCormick J. Polarizing invariant natural killer T cells towards a Th2 phenotype reduces disease severity in intra-abdominal sepsis. Podium presentation at the 2013 Clinician Investigator Training Association of Canada Young Investigators Forum, Ottawa, ON.
14. **Anantha RV**, Vogt KN, Crawford S, Parry N, Leslie K. Evaluation of Elective Cancer Surgery Wait-times Following the Implementation of an Acute Care Service at a Tertiary-Care Centre. Poster at the Canadian Surgical Forum: TAC/ACS Canadian Resident Papers Competition, Calgary, Alberta, September 2012.
15. **Anantha RV**, Vogt KN, Crawford S, Parry N, Leslie K. Implementation of an acute care surgery service does not affect wait-times for elective cancer surgeries: an institutional experience. Poster at the Canadian Surgical Forum, Calgary, Alberta, September 2012.
16. **Anantha RV**, Jain V, Vogt KN, Crawford S, Parry N, Leslie K. The Implementation of an Acute Care Emergency Surgical Service: What Does It Cost Surgeons? Poster presentation at the Canadian Surgery Forum, London, Ontario, September 2011 (**Winner**).
17. **Anantha RV**, Vogt KN, Crawford S, Parry N, Leslie K. Assessment of the Impact of an Acute Surgical Care Service in London Ontario. Podium presentation at the Canadian Surgical Forum: TAC/ACS Canadian Resident Papers Competition, London, Ontario, May 2011.

Local and Regional Meetings:

1. Verhoeff K, Connell M, Klooster A, **Anantha RV**. Adequacy of Venous Thromboprophylaxis in Hepatobiliary Cancer: Interim Results from a Single-Institution Prospective Study. Oral presentation at Surgical Foundations Research Day, Edmonton AB

2. Connell M, Verhoeff K, Klooster A, Anantha RV. Trauma Patients Lack Adequate Venous Thromboprophylaxis Despite Conventional Dosing of Low Molecular Weight Heparin: A Single-Centre Prospective Observational Study. Oral presentation at Surgical Foundations Research Day, Edmonton AB
3. Dwyer C, **Anantha RV**. Geospatial Analysis of Rural Trauma Patients in Northern Alberta: Staged Care Versus Direct Transfer. Oral presentation at Surgical Foundations Research Day, Edmonton AB
4. **Anantha RV**, Mazzuca D, Xu SX, Porcelli SA, Fraser D, Martin C, Welch I, Mele T, Haeryfar SMM, McCormick JK. Polarizing invariant natural killer T cells towards a Th2 phenotype reduces disease severity in intra-abdominal sepsis. Podium presentation at the Annual Robert Zhong Department of Surgery Research Day, London, ON (**Winner**).
5. **Anantha RV**, Mazzuca D, Xu SX, Porcelli SA, Fraser D, Martin C, Welch I, Mele T, Haeryfar SMM, McCormick JK. Mitigation of splenocyte apoptosis by Th2-polarized invariant natural killer T cells reduces disease severity in intra-abdominal sepsis. General Surgery Residents Research Day, Division of General Surgery, London, Ontario (**Winner**).
6. **Anantha RV**, Jegatheswaran J, Pepe DL, Delpont J, McCormick JK, Mele T. Predictors of Mortality Among Intravenous Drug Users with *Staphylococcus aureus* Bacteremia. Podium presentation at the 2014 Western Research Forum, Western University, London, Ontario (**Winner**).
7. Jegatheswaran J, **Anantha RV**, Pepe DL, Delpont J, McCormick JK, Mele T. Infective Endocarditis Among Intravenous Drug Users with *Staphylococcus aureus* Bacteremia. Poster presentation at the 2014 London Health Research Day, Western University, London, Ontario.
8. **Anantha RV**, Mazzuca D, Xu SX, Shrum B, Mele T, Fraser D, Martin C, Haeryfar SM, McCormick J. Mitigation of splenocyte apoptosis by Th2-polarized invariant natural killer T cells reduces disease severity in intra-abdominal sepsis. Poster presentation at the 2014 London Health Research Day, Western University, London, Ontario.
9. Pepe DL, **Anantha RV**, Jegatheswaran J, Delpont J, McCormick JK, Mele T. Assessment of Catheter-Related *Staphylococcus aureus* bloodstream infections in a Canadian cohort. Poster presentation at the 2014 London Health Research Day, Western University, London, Ontario.
10. **Anantha RV**, Mazzuca D, Xu SX, Shrum B, Mele T, Fraser D, Martin C, Haeryfar SM, McCormick J. Th2-polarized invariant natural killer T cells reduce disease severity in intra-abdominal sepsis. Poster presentation at the 2013 Infection and Immunity Research Forum, Western University, London, Ontario.
11. **Anantha RV**, Jegatheswaran J, Pepe DL, Delpont J, McCormick JK, Mele T. Predictors of Mortality Among Intravenous Drug Users with *Staphylococcus aureus* Bacteremia. Poster presentation at the 2013 Infection and Immunity Research Forum, Western University, London, Ontario (**Second Place Winner**).

12. Jegatheswaran J, **Anantha RV**, Jegatheswaran J, Pepe DL, Delpont J, McCormick JK, Mele T. Infective Endocarditis among Patients with *Staphylococcus aureus* Bacteremia: A Tale of Two Populations. Poster presentation at the 2013 Infection and Immunity Research Forum, Western University, London, Ontario.
13. **Anantha RV**, Mazzuca D, Xu SX, Shrum B, Mele T, Fraser D, Martin C, Haeryfar SM, McCormick J. Polarizing invariant natural killer T cells towards a Th2 phenotype reduces disease severity in intra-abdominal sepsis. Poster presentation at the Annual Robert Zhong Department of Surgery Research Day, London, ON.
14. **Anantha RV**, Mazzuca D, Xu SX, Shrum B, Mele T, Fraser D, Martin C, Haeryfar SM, McCormick J. Polarizing invariant natural killer T cells towards a Th2 phenotype reduces disease severity in intra-abdominal sepsis. Oral presentation at the General Surgery Residents Research Day, Division of General Surgery, London, ON.
15. Choi J, **Anantha RV**, Bottoni D, Fortin, D, Inculet, R, Malthaner, R. COVATS in the treatment of lung cancers compared to conventional thoracotomy. Oral presentation at the General Surgery Residents Research Day, Division of General Surgery, London, ON.
16. Rieder S, **Anantha RV**, Leslie K. From colonoscopy to colectomy: wait-times for colorectal cancer resection are reduced when diagnostic colonoscopies are performed by general surgeons. Oral presentation at the General Surgery Residents Research Day, Division of General Surgery, London, ON.
17. Howe B, Ott M, **Anantha RV**. Chest Imaging in Colorectal Cancer. Oral presentation at the General Surgery Residents Research Day, Division of General Surgery, London, ON
18. **Anantha RV**, Mazzuca D, Xu SX, Shrum B, Mele T, Fraser D, Martin C, Haeryfar SM, McCormick J. The Role of Invariant Natural Killer T Cells in Intra-abdominal Sepsis. Poster at the London Health Research Day, Western University, London, Ontario, March 2013.
19. **Anantha RV**, Mazzuca D, Mele T, Fraser D, Martin C, Haeryfar SM, McCormick J. Elevated Frequency of invariant Natural Killer T Cells in Septic Patients. Podium presentation at the Infection and Immunity Research Forum, Western University, London, Ontario, November 2012 (**Winner**).
20. **Anantha RV**, Vogt KN, Crawford S, Parry N, Leslie K. Evaluation of Elective General Surgery Wait-times Following the Implementation of an Acute Care Service at a Tertiary-Care Centre. Podium presentation at the General Surgery Residents Research Day, Division of General Surgery, London, Ontario, May 2011 (**Winner**).
21. **Anantha RV**, Vogt KN, Crawford S, Parry N, Leslie K. Distribution of General Surgery Cases Before and After the Implementation of ACCESS at Victoria Hospital. Podium presentation at the General Surgery Residents Research Day, Division of General Surgery, London, Canada, May 2011.
22. Perron LBC, **Anantha RV**, Nagpal S, Brandys T, Goeree R. Comparison of Open Repair and Fenestrated Endografting in the Treatment of Type IV Thoracoabdominal Aortic Aneurysms— A Systematic Review. Poster

presentation at the Collins Surgical Research Day, The Civic Hospital, Ottawa, Ontario, April 2010
(**Honourable Mention**).

23. **Anantha RV**, Huang A, Wehbe H, Nokhbeh R, Dimock K. Knockdown of sialyltransferase ST3Gal4 reduces susceptibility to Enterovirus 70 in human corneal epithelial cells. Podium presentation at the Summer Research Fellows meeting, University of Ottawa, Ottawa, Ontario, October 2007 (**Winner**).
24. **Anantha RV**, Nokhbeh R, Dimock K. Detection of α -2,3 Sialyltransferases in different cell lines by RT-PCR. Podium presentation at the Research Fellows meeting, Ontario Genomics Institute, Toronto, Ontario, August 2005.

SCHOLARLY AND PROFESSIONAL ACTIVITIES

Professional Memberships:

2018-present	Member , American College of Surgeons
2018-present	Member , Canadian Association of General Surgeons
2013-present	Resident Member , American Physician Scientists Association
2013-2015	Member , Canadian Institutes for Health Research
2013-2015	Resident Member , Canadian Society for Clinical Investigation
2013-2014	Resident Member , Clinician Investigator Trainee Association of Canada
2012-2014	Student Member , Canadian Society of Immunology
2012-2014	Student Member , American Society of Microbiology
2010-present	Resident Member , American College of Surgeons
2010-2016	Resident Member , Royal College of Physicians and Surgeons of Canada
2010-present	Resident Member , College of Physicians and Surgeons of Ontario
2006-present	Resident Member , Canadian Medical Association
2006-present	Resident Member , Ontario Medical Association
2006-2010	Student Member , Canadian Federation of Medical Students

Journal Reviewer:

2014-present	Ad-hoc Journal Reviewer , <i>Canadian Journal of Surgery</i>
2014	Ad-hoc Journal Reviewer , <i>Clinical Medicine Insights: Case Reports</i>
2014	Ad-hoc Journal Reviewer , <i>Journal of Medical Microbiology Case Reports</i>
2013	Ad-hoc Journal Reviewer , <i>Pathogens and Disease</i>
2013	Ad-hoc Journal Reviewer , <i>Journal of Medical Microbiology</i>
2013	Ad-hoc Journal Reviewer , <i>African Journal of Microbiology Research</i>

RESEARCH

Basic Science Research:

- 2013-2016 **Determination of Immunological, Microbiological and Clinical Risk Factors for Mortality Among Patients with *Staphylococcus aureus* Bacteremia**
Dr. John McCormick, Dr. Johan Delport, Dr. Tina Mele, Division of General Surgery and Department of Microbiology and Immunology, Western University, London, Ontario
- 2013-2016 **Analysis of immune determinants involved in liver hypertrophy following Associated Liver Partition Prior to Staged Hepatectomy (ALPPS) procedures**
Dr. Mansour Haeryfar, Dr. Jeremy Parfitt, Dr. Ian Welch, Dr. Roberto Hernandez-Alejandro, Division of General Surgery and Department of Microbiology and Immunology, Western University, London, Ontario
- 2012-2014 **Analysis of invariant Natural Killer T cell populations in human omentum**
Dr. John McCormick, Dr. Mansour Haeryfar, Dr. Tina Mele, Dr. Ken Leslie, Division of General Surgery and Department of Microbiology and Immunology, Western University, London, Ontario
- 2005-2007 **Targeting Enterovirus 70 susceptibility in human corneal epithelial cells by modulation of sialyltransferase ST3GAL4 activity**
Dr. Ken Dimock, Department of Microbiology, University of Ottawa, Ottawa, Ontario
- 2004 **Synthesis of a linker between a second-generation Grubbs' catalyst and a polystyrene bead**
Dr. William Ogilvie, Department of Chemistry, University of Ottawa, Ottawa, Ontario
- 2003 **Abiotic formation of methylmercury in wetland and aquatic ecosystems**
Dr. David Lean, Department of Biology, University of Ottawa, Ottawa, Ontario
- 2002 **Methylation of mercury by organic matter in aquatic ecosystems**
Dr. Susannah Scott, Department of Chemistry, University of Ottawa, Ottawa, Ontario

Clinical Research:

- 2020-present **Implementation of a Traumatic Brain Injury Clinic in Edmonton**
Dr. Trevor Lashyn, Amanda Klooster, Dr. Erica Lester, Department of Surgery and Department of Physical Medicine and Rehabilitation, University of Alberta, Edmonton, AB
- 2020-present **Geospatial Analysis of Rural Trauma Patients in Northern Alberta**
Dr. Chris Dwyer (General Surgery Resident), Department of Surgery, University of Alberta, Edmonton, AB
- 2018-present **Evaluation of Blunt Chest Trauma Outcomes in Northern Alberta: A Retrospective Analysis**

Dr. Warren Sun (General Surgery Resident), Jenna Beck, Department of Surgery, University of Alberta, Edmonton, AB

- 2018-present **Evaluation of Outcomes Among Trauma Patients in Northern Alberta**
Department of Surgery, University of Alberta, Edmonton, AB
- 2018-2020 **Cluster Analysis of Geriatric Trauma Patients Reveals Heterogeneous Populations**
Dr. Jason Hoth, Dr. Preston Miller, Dr. Andrew Nunn, Dr. Nathan Mowery, Department of Trauma and Acute Care Surgery, Wake Forest Baptist Medical Center, Winston-Salem, NC
- 2017-2019 **Evaluation of Undertriage among Geriatric Trauma Patients**
Dr. Jason Hoth, Dr. Preston Miller, Dr. Andrew Nunn, Dr. Nathan Mowery, Department of Trauma and Acute Care Surgery, Wake Forest Baptist Medical Center, Winston-Salem, NC
- 2017-2018 **Characterizing the Kinetics of Physiologic Response in Geriatric Trauma in the Prehospital and Emergency Department Setting**
Dr. Jason Hoth, Dr. Preston Miller, Dr. Andrew Nunn, Dr. Nathan Mowery, Department of Trauma and Acute Care Surgery, Wake Forest Baptist Medical Center, Winston-Salem, NC
- 2016-2017 **Independence from Mechanical Ventilation Among Patients with Cervical Spinal Cord Injury Patients**
Dr. Preston Miller, Dr. Shayn Martin, Department of Trauma and Acute Care Surgery, Wake Forest Baptist Medical Center, Winston-Salem, NC
- 2012-2014 **Risk factors associated with mortality in *Staphylococcus aureus* bacteremia**
Dr. Januvi Jegatheswaran, Dr. Daniel L. Pepe, Dr. Johan Delpont, Dr. John McCormick and Dr. Tina Mele, Department of Surgery and Department of Microbiology and Immunology, Western University, London, Ontario
- 2012-2013 **From colonoscopy to colectomy: assessment of time differences among general surgeons and gastroenterologists in the operative management of patients with colorectal cancer in Southwestern Ontario**
Dr. Scott Rieder and Dr. Ken Leslie, London Health Sciences Centre, London, Ontario
- 2012 **Analysis of the epidemiology of Non Group A, Group B Streptococci (NABS) in a tertiary-care centre in Southern Ontario**
Dr. John McCormick, Dr. Johan Delpont, Department of Microbiology and Immunology, Western University, London, Ontario
- 2012-2014 **Comparison of Carbon Dioxide Video-Assisted Thoracoscopic Surgery (COVATS) and thoracotomy in the resection of pulmonary metastases**
Dr. Richard Malthaner, London Health Sciences Centre, London, Ontario

- 2011-2012 **Assessment of surgical wait-times following implementation of an acute surgical care service in London, Ontario**
Dr. Kelly Vogt, Dr. Neil Parry and Dr. Ken Leslie, London Health Sciences Centre, London, Ontario
- 2011-2014 **Assessment of a Carbon Dioxide Video-Assisted Thoracoscopic Surgery (COVATS) technique in resection of lung cancer**
Dr. James Choi, Dr. David Bottoni and Dr. Richard Malthaner, London Health Sciences Centre, London, Ontario
- 2010-2011 **Evaluation of Clinical and Economic Outcomes of An Acute Surgical Care Service in London, Ontario**
Dr. Kelly Vogt, Dr. Neil Parry and Dr. Ken Leslie, London Health Sciences Centre, London, Ontario
- 2009-2010 **Comparison of open repair and fenestrated endografting in the treatment of Type IV thoracoabdominal aortic aneurysms**
Dr. Lygia Perron, Dr. Sudhir Nagpal and Dr. Tim Brandys, The Ottawa Hospital, Ottawa, Ontario
- 2008-2010 **Cost comparison of open surgical repair versus endovascular graft repair of juxtarenal aortic aneurysms**
Dr. Lygia Perron, Dr. Sudhir Nagpal, The Ottawa Hospital, Ottawa, Ontario

Students and Residents Supervised for Research:

- 2020-present Kevin Verhoeff (MD): Evaluation of Venous Thromboprophylaxis In Patients with Hepatobiliary Cancer
- 2020-present Matthew Connell (MD): Evaluation of Venous Thromboprophylaxis In Trauma Patients in the Edmonton Zone
- 2020-present Christopher Dwyer (MD): Evaluation of Outcomes In Rural Trauma Patients Transferred from Northern Alberta
- 2018-2019 Computer Science Course 2018-2019: Machine Learning Approaches to Calculating Mortality among patients in a Level 1 Trauma Centre
- 2018-present Warren Sun (MD): Assessment of Blunt Chest Trauma Outcomes in Edmonton Zone
- 2016-2018 Alexis Hess (MD): Evaluation of outcomes in geriatric trauma at Wake Forest Baptist Medical Center

2013-2014	Januvi Jegatheswaran (MD): Assessment of Risk Factors Contributing to Mortality in Patients with <i>Staphylococcus aureus</i> Bacteremia and Infective Endocarditis.
2013-2015	Daniel Pepe (MD): Predictors of Mortality in Patients with <i>Staphylococcus aureus</i> Bacteremia.
2012-2014	James Choi (MD): Comparison of COVATS and Conventional Thoracotomy for Resection of Lung Cancer at the London Health Sciences Centre.
2012-2014	Scott Rieder (MD): Evaluation of Wait-times for Surgical Resection of Colorectal Cancer Following Diagnostic Colonoscopy at the London Health Sciences Centre.

GRANT SUPPORT

1. Academic Medical Organization of Southwestern Ontario (AMOSO) Innovation Fund (INN14-006), May 1, 2014 – April 30, 2016. Evidence-based medicine for the enhanced management of complicated *Staphylococcus aureus* infections: Can we do better? Co-investigator, \$97 400.
2. Department of Surgery (Western University, London, Ontario) Internal Research Fund (R4923A02), July 1, 2014 to June 30, 2016. Analysis of immune determinants involved in liver hypertrophy following Associated Liver Partition Prior to Staged Hepatectomy (ALPPS). Co-investigator, \$20 000.

PATENTS

1. **Anantha RV**, McCormick JK, Haeryfar SMM. “Modulation of Invariant Natural Killer T Cells in the Treatment of Sepsis” International Patent Number WO 2015/154195. Published October 15 2015.

ACADEMIC ACTIVITIES

Teaching:

2018-present	Resident Teaching (Wet lab, Classroom, Simulation), University of Alberta, Edmonton, Alberta
2018-present	Medical Student Classroom Lectures, University of Alberta, Edmonton, Alberta
2019-present	Course Director , Advanced Trauma Life Support Course, University of Alberta, Edmonton, Alberta
2016-2018	Instructor , Advanced Trauma Life Support Course, Wake Forest Baptist Medical Centre
2013	Instructor , Clinical Skills Methods for Clinical Clerks, Schulich School of Medicine and Dentistry, Western University
2012-2014	Instructor , Advanced Trauma Life Support Course, Western University
2010-present	Resident Teacher for Clinical Clerks , Division of General Surgery, Western University

Invited Lectures:

- 2018 “Geriatric Trauma outcomes in a Level 1 Trauma Centre” Invited talk for Department of Surgery, University of Alberta, Edmonton, AB.
- 2018 “Geriatric Trauma outcomes in a Level 1 Trauma Centre” Invited talk for Department of Surgery, Northern Ontario School of Medicine, Sudbury, ON.
- 2014 “Strategies in the Management of Sepsis: Translational Approaches” Invited talk for fourth-year undergraduate students (Clinical Immunology Course IMM4300), Schulich School of Medicine and Dentistry, Western University
- 2013 “Why is Immunology Important in Medicine?” Invited talk for first-year medical students, Schulich School of Medicine and Dentistry, Western University

Committees:

- 2013 **Attendee**, Western Research Symposium, Western University
- 2012-2013 **Resident Member**, Resident Training Committee (General Surgery), Western University
- 2008-2009 **Class Representative**, Clerkship Committee, Faculty of Medicine, University of Ottawa
- 2008 **Secretary**, ORBIS Vision 2020 East Africa Conference, Dar Es Salaam, Tanzania

Leadership:

- 2020 **Facilitator**, Trauma Quality Improvement Program, Royal Alexandra Hospital Edmonton AB
- 2020 **Facilitator**, Edmonton Complex Hernia Group, University of Alberta, Edmonton, AB
- 2010-2016 **Attendee**, General Surgery Journal Club, Western University, London, Ontario
- 2013 **Resident Judge**, Medical Student Poster Sessions, American College of Surgeons Clinical Congress, Washington D.C.
- 2011 **Instructor Candidate**, Advanced Trauma Life Support Course, University of Western Ontario, London, Ontario
- 2008 **Participant**, Canadian Medical Association Leadership Training Workshop, Ottawa
- 2007-2008 **Organizer**, Mentorship Group, Faculty of Medicine, University of Ottawa, Ottawa
- 2007-2008 **Coordinator**, Seminars on Manuscripts Revolutionizing Therapies, Faculty of Medicine