

CURRICULUM VITAE

Part I: General Information

Date Prepared: February, 2012
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Education:

Year	Degree	Institution
1981	M.D.	Queen's University, Kingston, Ontario, Canada
1986	Ph.D.	Massachusetts Institute of Technology (Nutritional Biochemistry)

Postdoctoral Training:

Year	Title	Specialty/Discipline	Place of Training
1981 – 1982	Intern	Surgery	University of Toronto
1982 – 1983	Resident	General Surgery	University of Toronto
1983 – 1986	Graduate Student	Nutritional Biochemistry	Massachusetts Institute of Technology (Fellow of the Medical Research Council of Canada)
1986 – 1987	Clinical Fellow	Nutritional Support and Critical Care	New England Deaconess Hospital, Harvard Medical School
1987 – 1989	Resident	General Surgery	University of Toronto
1989 – 1990	Chief Resident	General Surgery	University of Toronto
1990 – 1991	Resident	Pediatric Surgery	Toronto Hospital for Sick Children
1991 – 1992	Chief Resident	Pediatric Surgery	Toronto Hospital for Sick Children

Licensure and Certification:

Year	License or Certification
1982	Licentiate of the Medical Council of Canada
1984	Commonwealth of Massachusetts, Medical License
1992	State of Texas, Medical License
1991	American Board of Surgery, General Surgery, (re-certification valid until July 1, 2022)
1993	American Board of Surgery, Critical Care, (re-certification valid until July 1, 2024)
1994	American Board of Surgery, Pediatric Surgery, (re-certification valid until July 1, 2014)

Academic Appointments:

Year	Academic Title	Institution
1992 – 1996	Assistant Professor	Baylor College of Medicine of Surgery
1996 – 1999	Associate Professor	Baylor College of Medicine of Surgery
1999 – 2008	Associate Professor	Harvard Medical School of Surgery
2009 – present	W. Hardy Hendren Professor of Surgery	Harvard Medical School

Hospital or Affiliated Institution Appointments:

Year	Title	Hospital/Affiliated Institution
1992 – 1999	Active Staff	Texas Children’s Hospital
1992 – 1999	Surgical Director of ECMO Program	Texas Children’s Hospital
1992 – 1999	Active Staff	Ben Taub General Hospital
1994 – 1999	Co - Director of Pediatric Injury Center	Ben Taub General Hospital
1992 – 1999	Courtesy Staff	St. Luke’s Episcopal Hospital
1992 – 1999	Courtesy Staff	Methodist Hospital (Houston)
1992 – 1999	Courtesy Staff	Memorial City Hospital
1992 – 1999	Courtesy Staff	Memorial Southwest Hospital
1992 – 1999	Courtesy Staff	Women’s Hospital of Texas
1992 – 1999	Consulting Staff	Texas Institute of Rehabilitation and Research
1992 –1999	Courtesy Staff	Clear Lake Regional Hospital
1992 –1999	Courtesy Staff	St. Joseph’s Hospital (Houston)
1992 –1999	Courtesy Staff	St. John’s Hospital (Clear Lake)
1992 –1999	Courtesy Staff	Hermann Hospital
1999 – 2005	Surgical Associate	Children’s Hospital Boston
1999 – 2006	Associate Director of Surgical Critical Care	Children’s Hospital Boston
1999–present	Surgical Director of The Center for Advanced Intestinal Rehabilitation	Children’s Hospital Boston
2001-present	Surgical Staff	South Shore Hospital
2006-present	Surgical Staff	Boston Medical Center
2006-present	Senior Surgical Associate	Children’s Hospital Boston
2007-present	Vice Chairman Pediatric General Surgery	Children’s Hospital Boston

Other Professional Positions and Major Visiting Appointments:

Year	Position/Title	Institution
1992 – 1999	Research Scientist	United States Department of Agriculture Children’s Nutrition Research Center, Houston
1999-present	Investigator	Harvard Clinical Nutrition Research Center
2005-present	Director of Mass Spectrometry and Metabolomics Core	Harvard Clinical Nutrition Research Center

Major Administrative Responsibilities:

1992 – 1999	Surgical Director	Texas Children’s Hospital ECMO Program
1999 – present	Surgical Director of Center for Advanced Intestinal Rehabilitation	Children’s Hospital Boston
1999 – 2007	Associate Director Surgical Critical Care	Children’s Hospital Boston
2002-present	Treasurer, Surgical Foundation	Children’s Hospital Boston
2005-present	Director, Mass Spectrometry and Metabolomics Core	Harvard Clinical Nutrition Research Center

2007-present Vice Chairman Pediatric General Surgery

Children's Hospital Boston

Major Committee Assignments:

Medical School

Year	Name of Committee	Role	Institution
1993 – 1999	Surgery Residency	Member	Baylor College of Medicine
1995 – 1996	Strategic Planning	Member	Baylor College of Medicine
1995 – 1996	Appointments and Promotions	Member	Baylor College of Medicine
1996	Search Committee, Chief of Division of Plastic Surgery	Member	Baylor College of Medicine
1995 – 1999	International Programs	Member	Baylor College of Medicine
1996 – 1999	Surgical Education	Member	Baylor College of Medicine
1996 – 1999	Oversight Committee for Outcomes Office	Member	Baylor College of Medicine
2009-present	Promotions and Re-appointments Committee	Member	Harvard Medical School
2010	Ad hoc Promotion Review (Professor of Pathology)	Chairman	Harvard Medical School

Hospital

Year	Name of Committee	Role	Institution
1993 –1996	CPR Committee	Member	Texas Children's Hospital
1994 –1996	Dietary Committee	Member	Texas Children's Hospital
1995 – 1999	Perinatal Advisory Committee	Member	Texas Children's Hospital
1995 – 1999	Intensive Care Committee	Member	Texas Children's Hospital
1997 – 1998	QI Medical Staff Committee	Member	Texas Children's Hospital
1997 – 1999	Pharmacy and Therapeutics Committee	Member	Texas Children's Hospital
1994 – 1999	Clinical Nutrition and GI Committee	Member	Ben Taub General Hospital
1994 – 1999	Trauma Committee	Member	Ben Taub General Hospital
1999 – present	Nutrition Committee	Member	Children's Hospital Boston
2000- 2003	Clinical Standards Group	Member	Children's Hospital Boston
2000-2003	Ambulatory Policy Council	Member	Children's Hospital Boston
2003-present	Surgical Research Council	Member	Children's Hospital Boston
2003-present	Research Faculty Council	Member	Children's Hospital Boston
2003-2010	GCRC Scientific Advisory Committee	Member	Children's Hospital Boston
2003-2008	Physician's Organization Leadership Council	Member	Children's Hospital Boston
2004-2008	Clinical Research Executive Committee	Member	Children's Hospital Boston
2004-present	Robotic Surgery Credentials Committee	Member	Children's Hospital Boston
2008-2010	Translational and Clinical Research Exec- utive Committee	Member	Children's Hospital Boston
2008-present	Search Committee Pathology Chairman	Member	Children's Hospital Boston

2008-2010	Patient Experience Committee	Member	Children's Hospital Boston
2011-present	Search Committee Urology Chairman	Member	Children's Hospital Boston
2011-present	Physician Organization Congress	Member	Children's Hospital Boston

National and International

Year	Name of Committee	Role	Institution
1997 – 2003	Committee on Nutrition	Member	American Academy of Pediatrics
1998	Publications Committee	Member	American Pediatric Surgical Association
1999 – 2001	Publications Committee	Vice-Chair	American Pediatric Surgical Association
2001-2003	Publications Committee	Chair	American Pediatric Surgical Association
2000- Present	Clinical Guidelines Task Force	Member	American Society of Parenteral and Enteral Nutrition
2003	Nominating Committee	Member	American Pediatric Surgical Association
2004-2006	Consultant Committee Surgical Critical Care Examination	Member	American Board of Surgery
2006	Canadian Liver Foundation	Reviewer	Canadian Liver Foundation Research Awards
2002-2004 2006-2008	Research Committee	Member	American Society of Parenteral and Enteral Nutrition
2004-present	Vermont-Oxford Trials	Surgical Advisor	Vermont-Oxford Neonatal Network
2008-2011	Program Committee	Member	American Pediatric Surgical Association
2008-present	Board of Directors	Director	American Society of Parenteral and Enteral Nutrition
2009	Nominating Committee	Chairman	American Pediatric Surgical Association

Professional Societies:

Year	Society	Role
1990	Royal College of Surgeons of Canada	Fellow
1992	Canadian Association of Pediatric Surgeons	Member
1994	Association for Academic Surgery	Member
1994	Society of Critical Care Medicine	Member
1995	American Academy of Pediatrics	Member
	Member of Committee on Nutrition 1997-2003	
	Local Chair, 60th Annual Meeting of the American Academy of Pediatrics Surgical Section, 2008	
1995	American College of Surgeons	Fellow
1996	American Pediatric Surgical Association	Member

Member, Co-Chair and Chair of Publications Committee 1998-2003
 Member of Nominating Committee 2003
 Member of Program Committee 2008-2011
 Chairman Nominating Committee 2009

1999	American Society of Parenteral and Enteral Nutrition	Member
	Member of Guidelines Taskforce 2000-2002	
	Member of Research Committee 2002-2004 and 2006-2008	
	Board of Directors 2008 - present	
	President-elect 2011	
	President 2012-2013)	
1999	Society of University Surgeons	Member
2000	Boston Surgical Society	Member
2002	New England Surgical Society	Member
2007	American Surgical Association	Member

Editorial Reviewer:

Year	Role	Publication
1996-present	ad hoc reviewer	Journal of Pediatric Surgery
1999-present	ad hoc reviewer	Pediatric Research
2002-present	ad hoc reviewer	Pediatrics
2002-present	ad hoc reviewer	Journal of Parenteral and Enteral Nutrition
2004-present	ad hoc reviewer	Annals of Surgery
2004-present	ad hoc reviewer	Gastroenterology
2005-present	ad hoc reviewer	Clinical Gastroenterology and Hepatology
2006-present	ad hoc reviewer	American Journal of Clinical Nutrition
2006-present	ad hoc reviewer	Nature Clinical Practice (Endocrinology and Metabolism)
2008-present	ad hoc reviewer	Journal of Perinatology
2009-present	Editorial Board	Journal of Pediatric Surgery

Awards and Honors:

Undergraduate (1975 – 1977):

Queen’s University Honors Matriculation Scholarship
 Summer Scholarship Banting and Best Institute (University of Toronto)

Medical School (1977 – 1981):

Edgar Forrester Scholarship
 G.H. Ettinger Scholarship
 Alice Pierce Waddington Scholarship
 Rattray Prize in Urology
 Physician’s Services Incorporated Research Grant

Post-graduate:

1983 – 1986	Medical Research Council of Canada Fellowship
1988	Finalist Gallie-Bateman Prize
1994	Resident Award, Best Basic Science Paper (Awardee: postdoctoral fellow Dr. Ronna Miller) for presentation entitled “Defective Cysteine and Proline Synthesis in Premature Infants”. Presented at the annual meeting of the Surgical Section of the American Academy of Pediatrics, Dallas, TX (Senior Author on Study)
1995	First Prize for Poster Exhibit at Annual Meeting of Texas Pediatric Society, Houston, TX

- 1996 First Prize for Poster Exhibit at Annual Meeting of Texas Pediatric Society, Dallas, TX
- 1996 Resident Award, Best Clinical Paper (Awardee: postdoctoral fellow Dr. Tamir Keshen), “Does Extracorporeal Life Support Benefit Neonates with Congenital Diaphragmatic Hernia?”. Presented at the annual meeting of the Canadian Association of Pediatric Surgeons Halifax, Nova Scotia, Canada. (Senior Author on Study)
- 1998 Resident Award, Best Basic Science Paper (Awardee: postdoctoral fellow Dr. Steven Shew), “The Determinants of Protein Catabolism in Neonates on Extracorporeal Membrane Oxygenation”. Presented at the annual meeting of the Canadian Association of Pediatric Surgeons, Toronto, Ontario, Canada. (Senior Author on Study)
- 1998 Robert H. Bartlett Award, Best Paper (Awardee: postdoctoral fellow Dr. Steven Shew), “Does ECMO improve survival in neonates with congenital diaphragmatic hernia – a report of the congenital diaphragmatic hernia study group”. Presented at the annual meeting of the Extracorporeal Life Support Organization, San Antonio, TX. (Senior Author on Study)
- 2000 Norman Yoshimura Grant (Awardee: postdoctoral fellow Alex Dzakovic), “Stable isotopic evaluation of hepatic glutathione synthesis.”, American Society of Parenteral and Enteral Nutrition. (Research Supervisor)
- 2002 Resident Award, Clinical Paper (Rosencrantz Award) (Awardee: postdoctoral fellow Dr. Heung Bae Kim) for presentation entitled: “Serial transverse enteroplasty for short bowel syndrome”. Presented at the annual meeting of the Surgical Section of the American Academy of Pediatrics, Boston, MA. (Senior Author on Study)
- 2003 NRSA grant (Awardee: postdoctoral fellow Dr. Patrick Javid) for the use of a hyperinsulinemic euglycemic clamp to decrease protein breakdown in critically ill neonates. (Research Supervisor)
- 2003 Resident Award, Basic Science Paper (Rosencrantz Award) (Awardee: postdoctoral fellow Dr. Patrick Javid) for presentation entitled: “Intravenous insulin improves protein breakdown in infants on extracorporeal membrane oxygenation”. Presented at the annual meeting of the Surgical Section of the American Academy of Pediatrics, New Orleans, LA. (Senior Author on Study)
- 2003 Resident Award, Best Clinical Paper (Awardee: postdoctoral fellow Dr. Patrick Javid), “Survival rate in congenital diaphragmatic hernia: the experience of the Canadian neonatal network.” Presented at the annual meeting of the Canadian Association of Pediatric Surgeons, Niagara on the Lake, Ontario, Canada. (Senior Author on Study)
- 2005 Best Clinical Research Paper (Awardee: postdoctoral fellow Dr. Hannah Piper), “Serial Transverse Enteroplasty: Nutritional Benefits”, University of British Columbia Surgical Research Day, Vancouver, Canada. (Senior Author on Study)
- 2006 Poster of Distinction (Awardee: postdoctoral fellow Dr. Biren Modi), “Improved Survival in a Multidisciplinary Short Bowel Syndrome Program”, Massachusetts Chapter of the American College of Surgeons. (Senior Author on Study)
- 2008 Resident Award, Best Clinical Research Paper (Awardee: postdoctoral fellow Dr. Shimae Fitzgibbons), “Relationship Between Serum Citrulline Levels and Progression to Parenteral Independence in Children with Short Bowel Syndrome.” Presented at the annual meeting of the Canadian Association of Pediatric Surgeons, Toronto, Ontario, Canada. (Senior author on Study).
- 2009 W. Hardy Hendren Professor of Surgery, Harvard Medical School
- 2010 Stanley J. Dudrick Research Scholar Award, American Society for Parenteral and Enteral Nutrition. Given for significant achievement

ent in nutritional support

Part II: Research, Teaching and Clinical Contributions

Funding Information (Research):

Tom Jaksic, M.D., Ph.D.

Years Covered	Funding Source	Role	Grant Title
1992-1999	USDA/ARS No. 58-6250-1-003	PI	Neonatal Amino Acid Requirements
1998-2001	U.S. Surgical	PI	Metabolic Effects of Laparoscopic Surgery
1999-2002	NIH Pilot Study Grant, Awarded by Harvard Clinical Nutrition Re- search Center	PI	Intestinal Glutathione Metabolism
2002-2006	Medtronics	Co-PI	Continuous Glucose Monitoring in Critically Ill Patients
2002-2007	Children's Surgical Foundation	PI	Serial Transverse Enteroplasty (STEP) Bowel Lengthening Procedure in Pediatric Patients
2003-2009	Glaser Foundation	Site PI	Glaser Neonatal Network
2004-2008	Good Samaritan Foundation	PI	Development of an Insulin Treatment Algorithm to Prevent Infection in Critically Ill Pediatric Patients
2003-2007	NIH 5R01HD041531	PI	Protein Metabolism in Critically Ill Neonates
2007-2012	NIH RO1HL08844801	Co-Investigator	Safe Pediatric Euglycemia in Cardiac Surgery
2008-2013	NIH RO1FD00343601	Co-Investigator	Cholestasis prevention: Efficacy of IV Fish Oil
2010-2012	Harvard Catalyst Award (5 UL1 RR025758-03)	PI	Treatment of Intestinal Failure Associated Liver Disease with Enteral Fish Oil
2006-2017	NIH P30DK040561	Director Mass Spectrometry Core	Harvard Clinical Nutrition Research Center

Report of Current Research Activities:

Projects

1. Determining the effect of insulin upon protein metabolism in critically ill surgical neonates, PI
2. Development of a treatment algorithm to prevent infection in critically ill pediatric patients, PI
3. Prospective database collection that aims to define outcomes of necrotizing enterocolitis and incidence of short bowel syndrome. Site-PI
4. SPECS (safe pediatric euglycemia in cardiac surgery) trial. This is a prospective randomized trial of the effect of euglycemia upon clinical and nutritional outcomes in pediatric patients undergoing cardiac surgery. The primary outcome variable is the evolution of perioperative infections. Co-PI
5. ¹³C-methionine to determine liver function in children with short bowel syndrome. PI
6. Porcine model to assess nutrient absorption, bowel adaptation, bacterial overgrowth, and bowel motility in response to the Serial Transverse Enteroplasty (STEP) operation. PI
7. H¹³CO₂ infusion to determine energy expenditure in critically ill neonates with necrotizing enterocolitis. PI
8. Randomized prospective trial of ethanol locks for the prevention of CVL infection in pediatric patients with short bowel syndrome. PI
9. Randomized prospective trial of enteral omega-3 supplements to limit hepatic injury in children with short bowel syndrome. PI

Report of Teaching

1. Local Contributions:

a. Medical/Ph.D. Courses:

- 2001-2004 Nutritional Biochemistry Course. A set of two, one hour lectures, on “Human Amino Acid Biochemistry,” were given in the spring, to about 20 students in Ph.D. programs. The initial preparation time was six hours per lecture.
- 2004-present Harvard Medical School Clinical Anatomy Course. This annual lecture on “The Surgical Anatomy of the Abdomen” is given to third and fourth year medical school students in the spring. Each lecture is one hour in length. Approximately 20 medical students attend. The initial preparation time was six hours.
- 2006 Harvard Medical School first year Chemistry and Biology of the Cell lecture on “Nutritional Biochemistry and Metabolism of Critically Ill Patients”. Approximately 100 medical students attended. The initial preparation time was six hours.
- 2006-present Harvard Medical School Pediatrics Clerkship Lecture Series. A lecture on “Neonatal Surgical Emergencies” is given every four months. Approximately 20 medical students attend. Initial preparation time was six hours.
- 2007 Harvard Medical School “Human Body Course”. A lecture on “The Clinical Embryology of the Abdomen”. This is for the whole first year medical class. The initial preparation time was six hours.
- 2008-present Harvard Medical School “Human Body Course”. A lecture on “The Anatomic Basis for Intestinal Failure”. This is for the whole first year medical class. The initial preparation time was six hours.
- 2011-present Harvard Medical School Nutrition Course. A lecture on “The Metabolism of Critical Illness”. This is for the whole first year class. The initial preparation time was six hours.

b. Graduate Medical Course:

- 1999-present Children’s Hospital Pediatric Surgery Core Lecture Series. Four one hour lectures are given on a rotating basis approximately every three months. The lectures are: “Necrotizing Enterocolitis”, “Short Bowel Syndrome”, “Fluids and Electrolytes” and “Hirschsprung’s Disease”. Approximately 10 surgical residents, 2 pediatric surgical fellows, and 2 medical students attend. Initial preparation time for each lecture was four hours.

c. Local Invited Teaching Presentations:

All of these lectures were primarily intended for medical doctors, medical students and nurses. Each presentation was approximately one hour in length.

- 1999 “Feeding the Surgical Neonate”, Boston Nutrition Seminars, sponsored by the Harvard Clinical Nutrition Research Center, presented at the M.I.T. Faculty Club, Cambridge MA.
- 2003 “The Metabolic Management of the Surgical Patient”. Brigham and Women’s Hospital, Boston, Surgical Grand Rounds.
“Metabolic Management of Pediatric Surgical Patients”. Presented at Children’s Hospital, Boston, Surgical Grand Rounds.
- 2005 “Recent Advances in the Management of Short Bowel Syndrome”. Presented at the Children’s Hospital Boston, Surgical Grand Rounds.
- 2006 “The Management of Neonates with Short Bowel Syndrome”. Presented at the Brigham and Women’s Hospital, Neonatology Core Lecture Series.
“The Surgical Treatment of Gastroesophageal Reflux”. Presented at the Children’s Hospital Boston, Gastroenterology Core Lecture Series.

“Update in Short Bowel Syndrome”. Presented at Surgical Grand Rounds, Children’s Hospital Boston.

“The Surgical Treatment of Short Bowel Syndrome”. Presented at Seminars in Surgical Research, Beth Israel Deaconess Medical Center.

“Pectus Deformities”. Presented at the Brigham and Women’s Hospital, Thoracic Surgery Core Lecture Series.

2007 “Energy and Protein Metabolism in Critically Ill Children”. Invited Speaker, Medical Staff Meeting, Shriners Hospital Boston, MA.

“Everything that you wanted to know about inguinal hernias but were afraid to ask”. Presented at the Children’s Hospital Emergency Medicine Core Lecture Series.

“Current Management Strategies for Intestinal Failure”. Presented at Surgical Grand Rounds, Children’s Hospital Boston.

2008 “Controversies in Pediatric Inguinal Hernia Repair” Presented at Surgical Grand Rounds, Children’s Hospital Boston.

“The Risks and Benefits of Euglycemia in Pediatric Surgical Patients” Presented at Surgical Grand Rounds, Children’s Hospital Boston.

2009 “New Findings in the Treatment of Intestinal Failure” Presented at Surgical Grand Rounds, Children’s Hospital Boston

2010 “Neonatal Surgical Outcomes” Presented with Dr. Craig Lillehei at Surgical Grand Rounds, Children’s Hospital Boston

2011 “Intestinal Failure Management Update” presented at Surgical Grand Rounds, Children’s Hospital Boston.

d. Continuing Medical Education:

2003 “Innovations in Neonatal Nutritional Care”. Invited Speaker, Harvard Medical School Department of Continuing Education Course in “Enhancing the Safety of Parenteral and Enteral Nutrition”, Cambridge MA; November 2003. This was one hour lecture given to approximately 100 physicians, pharmacists and nurses.

2004 “GER Surgical Indications and Repair”. Presented at “Frontiers in Pediatric Surgery Spring Seminar” (a continuing medical education series of Children’s Hospital and Harvard Medical School), Bedford MA; March 2004. This was a one hour lecture given to approximately 120 pediatricians and pediatric nurse practitioners.

2005 “New Approaches in the Repair of Chest Wall Deformities”. Presented at Frontiers in Pediatric Surgery (sponsored by Children’s Hospital and Harvard Medical School Department of Continuing Education), Burlington, MA; March, 2005. This was a one hour lecture given to approximately 120 pediatricians and pediatric nurse practitioners.

“Energy and Protein Metabolism in Critically Ill Children”. Invited Speaker, Harvard Medical School Department of Continuing Education Course in “Enhancing the Safety of Parenteral and Enteral Nutrition”, Cambridge MA; November 2005. This was a one hour lecture given to approximately 100 physicians, pharmacists and nurses.

2006 “Update on Energy and Protein Metabolism in Critically Ill Children”. Invited Speaker, Harvard Medical School Department of Continuing Education Course in “Enhancing the Safety of Parenteral and Enteral Nutrition”, Harvard Medical School Conference, Cambridge MA; November 2006. This was a one hour lecture given to approximately 100 physicians, pharmacists and nurses.

2008 “Protein Metabolism in the Sick Child”. Invited Speaker, Harvard Medical School Department of Continuing Education Course in “Enhancing the Safety of Parenteral and Enteral Nutrition”, Harvard Medical School, Cambridge MA; November 2008. This is a one hour lecture to be given to approximately 100 physicians, pharmacists and nurses.

e. Advisory and Supervisory Responsibilities:

Since 1992 I have been an academic surgeon with full-time clinical responsibility for the training of Medical Students, General Surgical Residents and Pediatric Surgical Fellows. This involves approximately 20 hours per week. Further, I have managed a surgical nutrition laboratory over this same time period and this encompasses approximately 8 hours of weekly supervision of post-doctoral research fellows and students.

f. Teaching Leadership:

1992- 1996 Coordinator of General Surgery Basic Science lecture series Baylor College of Medicine. This program prepared the surgical residents for their annual in-service examination and ultimately helped them to obtain board certification in General Surgery. This was a weekly series and was attended by approximately 50 residents.

1994-1997 Director of Pediatric Surgery Residency Program at the Baylor College of Medicine. I was primarily responsible for the supervision and training of three pediatric surgical fellows all of whom obtained board certification in pediatric surgery.

1999-Present Surgical Director of Center for Advanced Intestinal Rehabilitation (CAIR) Program, Children’s Hospital Boston. Have trained 16 fellows in the clinical management of intestinal failure and each has worked an average of two years with us. Two fellows have joined our staff and two others lead their own University Hospital based intestinal failure programs.

1992-present Directed Surgical Metabolism Laboratory. 11 Fellows were subsequently accepted into accredited Pediatric Surgical Fellowships

g. Names of Trainees:

CLINICAL PEDIATRIC SURGERY FELLOWS

(as Program Director for Pediatric Surgery Baylor College of Medicine)

1993-1995	Jed G. Nuchtern, M.D.	Professor of Surgery, Division of Pediatric Surgery, Baylor College of Medicine, Houston, TX
1994-1996	Marilyn W. Butler, M.D.	Assistant Professor of Surgery, Stanford University, Palo Alto, CA
1996-1998	R. Todd Maxson, M.D.	Assistant Professor of Surgery, University of Arkansas, Little Rock, AR

POST-DOCTORAL RESEARCH FELLOWS

1993-1995	Ronna Miller, M.D.	General Surgeon in private practice
1995-1997	Tamir Keshen, M.D	Pediatric Surgeon in private practice, Santa Barbara, CA
1997-1999	Stephen Shew, M.D.	Assistant Professor of Surgery, Division of Pediatric Surgery, UCLA, Los Angeles, CA
1999-2001	Alexander Dzakovic M.D.	Pediatric Surgical Fellow, Northwestern University, Chicago, IL (Completed). Completing transplant fellowship.
2000-2002	Jenna Garza M.D.	Attending Pediatric Surgeon, Brownsville, TX
2000-2002	Heung Bae Kim M.D.	Associate Professor of Surgery, Harvard Medical School, Director of Transplantation, Children’s Hospital, Boston MA
2002-2004	Michael Agus M.D.	Instructor in Pediatrics, Harvard Medical School, Chief of the Intermediate Care Unit, Children’s Hospital, Boston MA

2002-2004	Patrick Javid M.D.	Pediatric Surgeon and Assistant Professor of Surgery, Surgical Director of Pediatric Short Bowel Program, University of Washington, Seattle, WA.
2004-2005	Hannah Piper M.D.	Pediatric Surgery Fellow, UT Southwestern, Dallas, TX (completed). Attending Surgeon, UT Southwestern, Dallas TX.
2005-2006	Monica Langer M.D.	Staff Pediatric Surgeon, Maine Medical Center, Portland Maine.
2005-2007	Biren Modi M.D.	Attending in Pediatric Surgery Children's Hospital, Boston, MA, Instructor in Surgery, Harvard Medical School
2006-2008	Debora Duro M.D.	Attending Gastroenterologist University of Miami and Director of Pediatric Short Bowel Program
2006-2008	Avery Ching M.D.	Fellow in Vascular Surgery University of Pittsburgh
2007-2009	Shimae Fitzgibbons M.D.	Surgical Resident Lahey Clinic
2008-2010	Melissa Hull M.D.	Surgical Resident Massachusetts General Hospital
2008-2010	Brian Jones M.D.	Surgical Resident University of Oregon (entering Pediatric Surgical Residency University of Texas July 2012)
2008-2010	Bram Raphael M.D.	Attending Gastroenterologist, Children's Hospital Boston, Instructor in Medicine, Harvard Medical School
2010-present	Ivan Gutierrez M.D.	Currently in laboratory
2010-present	Jamie Kang M.D.	Currently in laboratory

HARVARD MEDICAL SCHOOL STUDENTS IN LABORATORY:

2006	Stephen Waterford	Harvard Medical School
2007-10	Jeffrey Yang	(HMS Stone Freedburg Fellowship, Howard Hughes Student Fellowship); Currently Surgical Resident, Duke University.

HARVARD UNDERGRADUATE SUMMER STUDENTS IN LABORATORY:

2007- 09	Michelle Lee	Harvard College Undergraduate (Currently medical student Columbia College of Physicians and Surgeons)
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Regional, National, or International Contributions

Regional:

- 2000 "Pediatric Surgical Emergencies", Presented at South Shore Hospital, Weymouth MA, Pediatric Grand Rounds; September 2000.
- 2002 "The Treatment of Perforated Appendicitis", Presented at Cape Cod Hospital, Hyannis MA, Pediatric Grand Rounds; October 2002.
- 2003 "Pediatric Minimally Invasive Surgery". Presented at Caritas Good Samaritan Medical Center, Brockton MA, Surgical Grand Rounds; January 2003.

National:

- 1995 "The Use of Stable Isotopes to Quantify Metabolism in Critically Ill Patients", Invited Speaker, Annual Meeting of the Society of Critical Care Medicine, San Francisco CA; January 1995.
- 1997 "Feeding the Surgical Neonate", Invited Speaker, Annual Meeting of the American Society of Parenteral and Enteral Nutrition, San Francisco, CA; February 1997.
- 1998 "How to Start an Academic Surgical Practice", Invited Speaker. Annual Meeting of the American College of Surgeons, Orlando, FL; October 1998.

- 1999 “Neonatal Metabolic Requirements and the evolution of TPN Associated Cholestasis”, Visiting Professor for the Departments of Surgery, Neonatology and Pharmacy at the Tucson Medical Center, Tucson, AZ; April 1999.
- 2000 “Assessment of the Pediatric Acute Abdomen”, “Timing of Surgical Procedures in the Unstable Child” and “Panel Discussion of the Management of Pleural Effusions in Children”. Invited speaker, Acute Care Pediatrics: Review, Update, and State of the Art, Hilton Head Island; May 2000.
- 2003 “The Metabolic Management of the Critically Ill Child”. Invited Speaker, Arkansas Children’s Hospital PICU Symposium, Little Rock, AK; March 2003.
 “Nutritional requirements on ECMO”. Invited Speaker, The 14th Annual ELSO (Extracorporeal Life Support) Conference. Chicago IL; September 2003.
- 2004 “Short Bowel Syndrome and Intestinal Adaptation in the Pediatric Patient”. Moderator, Nutrition Week, Las Vegas, NV; February 2004.
 “The Surgical Management of Short Bowel Syndrome”. Invited Speaker, Nutrition Week, Las Vegas, NV; February 2004.
 “Surgical Interventions for Gastrointestinal Disorders” and “Nutritional Management of the Infant with Short Gut Syndrome”. Invited Speaker, Neonatal Nutrition Conference, Houston TX; March 2004.
 “Serial Transverse Enteroplasty Procedure (STEP) and bowel transplantation”. Invited Speaker, American Pediatric Surgery Managers Association Conference, Amelia Island Plantation, FL; May 2004.
- 2005 “Nutrition of the Critically Ill Child”. Invited Speaker, Nutrition Week, Orlando, FL; January 2005.
 “Special Topics in Pediatric Critical Care: Focus on Energy Needs and Substrate Utilization”. Moderator, Nutrition Week, Orlando, FL; January 2005.
 “The Surgical Management of Short Bowel Syndrome”. Invited Speaker, Annual Meeting of the American Pediatric Surgical Nurses Association; Phoenix, AZ; May 2005.
 “Controversies in Pediatric Inguinal Hernias”. Moderator, Annual Meeting of the American College of Surgeons, San Francisco, CA; October 2005.
 “Contralateral Inguinal Hernia Exploration”. Invited Speaker, Annual Meeting of the American College of Surgeons, San Francisco, CA; October 2005.
 “New Techniques in the Management of Short Bowel Syndrome”, Visiting Professor, Wake Forest University, Surgical Grand Rounds, Winston-Salem NC; October 2005.
- 2006 “Overview of Lengthening and Tapering Procedures”. Invited Speaker. 4TH International Pediatric Intestinal Failure and Rehabilitation Symposium, Pittsburgh, PA; June, 2006.
 “Recent Advances in the Management of Short Bowel Syndrome”. Visiting Professor, University of Texas Medical School (Houston), Houston TX; June 2006.
- 2007 “New Approaches to Intestinal Failure in Pediatric Patients; Transplantation is Not the Only Solution”. Moderator. Nutrition Week, Phoenix, AZ; February 2007
 “Innovations in Bowel Lengthening and Tapering Operations”. Invited Speaker. Nutrition Week, Phoenix, AZ; February 2007.
 “Glycemic Control in the Pediatric ICU”. Invited Speaker, Nutrition Week, Phoenix, AZ; February 2007.
 “Innovative Therapies for Short Bowel Syndrome”, and “The Use of Insulin in the Pediatric ICU”. Lectures given as the Annual Luther Longino Visiting Professor in Pediatric Surgery, University of Alabama, Birmingham, AL; May 2007.

- “New Management Strategies for Intestinal Failure”. Lecture given as Visiting Professor, Neonatology Research Conference, Ohio State University, Columbus, OH; July 2007.
- “Current Management Strategies for Short Bowel Syndrome”. Lecture given as Visiting Professor, Surgical Grand Rounds, Children’s Mercy Hospital, Kansas City MO; October 2007.
- “Neonatal Surgery”. Presentation given 2007 Annual Meeting of the Vermont Oxford Network and 8th Annual Quality Congress, Washington DC, December 2008.
- 2008 “Recent Advances in the Management of Short Bowel Syndrome”. Lecture given as Visiting Professor, Surgical Grand Rounds, Maine Medical Center, Portland ME; January 2008.
- “It’s not the TPN...Managing Metabolic Complications in the TPN Dependent Patient, Moderator, Clinical Nutrition Week, Chicago IL, February 2008.
- “Glucose Control in the Critically Ill Patient”. Invited Speaker, Clinical Nutrition Week, Chicago IL, February 2008.
- “Update on Bowel Lengthening Procedures: Results of the STEP Registry”. Clinical Nutrition Week, Chicago IL, February 2008.
- “Hyperglycemia in the PICU”. Invited Speaker, 8th Advances in Pediatric Nutrition Course, Johns Hopkins University, Baltimore MD, September 2008
- 2009 “Surgical Management of Short Bowel Syndrome”, Columbus McAlpin Visiting Professor and Surgical Grand Rounds Speaker, Cedars Sinai Hospital, Los Angeles CA, April 2009
- “Update in the Surgical Management of Pediatric Patients with Chronic Intestinal Pseudo-obstruction (CIPO)”, Invited Speaker, Association of Gastrointestinal Motility Disorders (AGMD) Digestive Motility Symposium, Bedford MA, July 2009
- “Recent Advances in the Management of Intestinal Failure”, Visiting Professor and Pediatric Grand Rounds Speaker, LeBonheur Children’s Hospital, Memphis TN, July 2009
- “Intestinal Failure Management”, David Tapper Visiting Professor and Pediatric Grand Rounds Speaker, Seattle Children’s Hospital, Seattle WA, October 2009
- “Current Management Strategies for Intestinal Failure”, and “The Risks and Benefits of Euglycemia in Critically Ill Pediatric Patients”, Visiting Professor Divisions of Pediatric Gastroenterology and Pediatric General Surgery, Cincinnati Children’s Hospital Medical Center, Cincinnati OH, November 2009
- 2010
- “STEPing and re-STEPing”, American Society for Parenteral and Enteral Nutrition 2010 Research Workshop on Intestinal Failure: Latest Advances in Diagnosis and Treatment including Transplantation. Las Vegas NV, February 2010
- “Advances in the Treatment of Intestinal Failure”, Merrill S. Davis Visiting Professor, and Surgical Grand Rounds Speaker, Indiana University School of Medicine and Riley Hospital for Children. Indianapolis IN, March 2010
- 2011
- “Intestinal Lengthening”, invited lecture APSA/APSNA Symposium, American Pediatric Surgical Association Annual Meeting. Desert Springs CA, May 2011.
- “Abdominal Pain: When is it Urgent, Important, Both or Neither?” Given with Dr. Craig Lillehei. American Academy of Pediatrics Annual Meeting. Boston MA, October 2011
- “Don’t Miss This! Surgical diagnoses the Pediatrician Never Wants to Miss!” Given with Dr. Craig Lillehei. American Academy of Pediatrics Annual Meeting. Boston MA, October 2011
- “Intestinal Failure Management”, Orvar Swenson Lecturer and visiting Professor, Children’s Memorial Hospital, Chicago IL, December 2011

International:

- 1993 “The Use of Uniformly Labeled Stable Isotopes to Study the Metabolism of Critically Ill Neonates”, Invited Speaker, Cambridge University, the Nutrition Society of the United Kingdom; November, 1993.
- 2001 17th Annual Symposium of the Japanese Society of Pediatric Surgeons, “Tactics in long-term nutritional management”. Visiting Professor for the 17th Annual Meeting of the Japanese Society of Pediatric Surgeons, Saitama, Japan; November 2001.
- 2007 “Short Gut and Congenital Malformations: Update on Management and Nutritional Care”. Invited Speaker, Panama Children’s Nutrition Conference, Panama City, Panama; January 2007.
“Nutritional and Metabolic Management of Short Gut Syndrome in Children”. Invited Speaker, International Surgical Week, Montreal, Canada; August 2007.
“Recent Advances in Bowel Lengthening Operations”, Invited Speaker, 38th National Congress of the Italian Society of Pediatric Surgeons, Florence, Italy; September 2007.
- 2008 “Recent Advances in the Surgical Management of Short Bowel Syndrome”, Visiting Professor and Invited Speaker at Shanghai International Pediatric Elite Forum 2008, and the 50th Anniversary of Xinhua Hospital, Shanghai, China; October 2008
- 2009 “Current Management of Intestinal Failure”, Invited Speaker, International Surgical Week, Adelaide, Australia; September 2009
“Nutritional Requirements of Surgical Neonates”, “What Neonatologists Should Consider in Parenteral and Enteral Nutrition of the Surgical Infant”, “Necrotizing Enterocolitis: What is New? Surgical Considerations”, Visiting Professor and Invited Speaker, Neonatal Nutrition and GI IPOKRATES Seminar, Kuala Lumpur, Malaysia; October 2009
- 2010 “North American Based Registries Exploring the Etiology and Treatment of Intestinal Failure”, “Recent Advances in the Management of Pediatric Intestinal Failure”, “Nutritional Support for the Surgical Neonate on Extracorporeal Membrane Oxygenation (ECMO)”, Visiting Professor and Invited Speaker Japanese Society of Surgical Nutrition and Metabolism 47th Annual Meeting. Yokohama Japan. July 2010.
- 2011 “Nutritional Implications Associated with Pediatric Patients Requiring ECMO” American Society of Parenteral and Enteral Nutrition in Pre-Conference Course: Nutrition for the Practicing Pediatric Clinician. Vancouver Canada, January 2011.
Moderator Dudrick Research Symposium: “Evidence Based Nutritional Therapy for the Critically Ill Child”, American Society of Parenteral and Enteral Nutrition. Nutrition Week. Vancouver Canada, January 2011
Moderator “Critical Care Nutrition in Pediatrics ” session, American Society of Parenteral and Enteral Nutrition. Nutrition Week. Vancouver Canada, January 2011
Moderator “Pediatric Intestinal Failure” session, American Society of Parenteral and Enteral Nutrition. Nutrition Week. Vancouver Canada, January 2011
“Protein and Energy Requirements of Critically Ill Surgical Neonates”, “What the Neonatologist should consider in the Parenteral and Enteral Nutrition of the Surgical Neonate, Case Examples”, “Advances in the Management of Pediatric Intestinal Failure”, and “Necrotizing Enterocolitis: What is New? Surgical Considerations”.
Visiting Professor and Invited Speaker IPOKRATES Clinical Seminar in Neonatal Nutrition and Gastroenterology. Jerusalem, Israel. June 2011.
“Quantitative Stable Isotopic Assessment of Pediatric Intestinal Failure Associated Liver Disease”, invited Lecture: The European Society for Clinical Nutrition and Metabolism Annual Congress. Gothenburg Sweden, September 2011

PART III: Bibliography

ORIGINAL PEER REVIEWED ARTICLES

1. Monga TN, Jaksic T: Acupuncture in phantom limb pain. *Arch Phys Med Rehabil* 1981; 62:229-231.
2. Jaksic T, Wagner DA, Burke JF, Young VR: Plasma proline kinetics and the regulation of proline synthesis in man. *Metabolism* 1987; 36:1040-1046.
3. Hunter DC, Jaksic T, Lewis D, Benotti PN, Blackburn GL, Bistran BR: Resting energy expenditure in the critically ill: estimations versus measurement. *Br J Surg* 1988; 75:875-878.
4. Jaksic T, Wagner DA, Young VR: Plasma proline kinetics and concentrations in young men in response to dietary proline deprivation. *Am J Clin Nutr* 1990; 52:307-312.
5. Jaksic T, Wagner DA, Burke JF, Young VR: Proline metabolism in adult male burned patients and healthy control subjects. *Am J Clin Nutr* 1991; 54:408-413.
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10. Miller RG, Jahoor F, Jaksic T: Defective nonessential amino acid synthesis in premature infants. *Surg Forum* 1994; 45:677-679.
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12. Miller RG, Jahoor F, Reeds PJ, Heird WC, Jaksic T: A new stable isotope tracer technique to assess human neonatal amino acid synthesis. *J Pediatr Surg* 1995; 30:1325-1329.
13. Miller RG, Keshen TH, Jahoor F, Shew SB, Jaksic T: Compartmentation of endogenously synthesized amino acids in neonates. *J Surg Res* 1996; 63:199-203.
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17. Keshen TH, Miller R, Jahoor F, Jaksic T, Reeds PJ: Glucose production and gluconeogenesis are negatively related to body weight in mechanically ventilated, very-low birthweight neonates. *Pediatr Res* 1997; 41:132-138.
18. Horwitz JR, Gursoy M, Jaksic T, Lally KP: Importance of diarrhea as a presenting symptom of appendicitis in very young children. *Am J Surg* 1997; 173:80-82.
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21. Keshen TH, Miller RG, Jahoor F, Jaksic T: Stable isotopic quantitation of protein metabolism and energy expenditure in neonates on- and post-extracorporeal life support. *J Pediatr Surg* 1997; 32:958-963.

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53. Shew SB, Keshen TH, Jahoor F, Jaksic T: Assessment of cysteine synthesis in very low-birth weight neonates using a [¹³C₆] glucose tracer. *J Pediatr Surg* 2005; 40:52-56.
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Review Articles

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