

CURRICULUM VITAE

1. Name and Personal Data:

Shimul A. Shah MD, MHCM, FACS
James and Catherine Orr Endowed Chair in Liver
Transplantation
Associate Professor of Surgery

Date of Birth: May 12, 1973

Birthplace: Philadelphia, PA

Citizenship: USA

Family: Married May 15, 2004 – Aparna D. Shah, MD
Nikhil S. Shah born June 1, 2007
Rhea D. Shah born March 11, 2010

Address: University of Cincinnati
Department of Surgery
Division of Transplantation
231 Albert Sabin Way
MSB 1555, ML 0519
Cincinnati OH 45267
E-mail: shimul.shah@uc.edu

2. Education:

July 2010 – May 2012 **Harvard School of Public Health**
Boston, MA
MS (Masters in Health Care Management): May, 2012

Sept 1993 – June 1997 **Jefferson Medical College of Thomas Jefferson University**
Philadelphia, PA
MD: June 1997

June 1991 – May 1993 **Pennsylvania State University**
University Park, PA
BS (Science): August 1995

Professional Training:

July 2004 – June 2006 **Toronto General Hospital & Hospital for Sick Children/
University of Toronto**

July 2003 – June 2004 Fellow in Multi-Organ Transplant / Hepatobiliary Surgery
Brigham & Women’s Hospital / Harvard Medical School
Chief Resident in General Surgery

July 2001 – June 2003 **Brigham & Women’s Hospital / Harvard Medical School**
Categorical Resident in General Surgery

July 1999 – June 2001 **University of Massachusetts Medical School**
Research Fellow
Departments of Surgery and Cell Biology

July 1997 – June 1999 **University of Massachusetts Affiliated Programs**
Intern / Resident in General Surgery

Current Appointment: August 1, 2012
Associate Professor of Surgery
Director, Liver Transplantation and Hepatobiliary Surgery
University of Cincinnati School of Medicine
Cincinnati, OH

3. Academic Appointments:

2006 – 2010 Assistant Professor of Surgery
University of Massachusetts Medical School

2010 – 2012 Associate Professor of Surgery
University of Massachusetts Medical School

2012 – current Associate Professor of Surgery
University of Cincinnati Medical School

4. Awards and Honors:

2016 UC Department of Surgery Top Resident Educator Award

2015 UC Health/UC College of Medicine Innovation Award

2015 Alpha Omega Alpha – University of Cincinnati College of Medicine

2015 UC Health Doctor’s Day Impact Award

2014 Top Doctors, Cincinnati Magazine

2011 Frederick J. McCready Faculty Teaching Award
University of Massachusetts - Department of Surgery

2008 American Society of Transplant Surgeons Vanguard Award

2006 International Hepato-Pancreatico-Biliary Association Young Investigator
Award -Transplantation

2006 American Society of Transplant Surgeons - Astellas Faculty Career
Development Award

2005 Paddy Lewis Teaching Award – Toronto General Hospital

2004 Francis D. Moore Teaching Award – Brigham and Women’s Hospital

2004 Harvard Medical School Resident Teaching Award – Chief Resident

2002 Harvard Medical School Resident Teaching Award – Senior Resident

2001 Society for Surgery of Alimentary Tract / Ross Research Travel Award

2001	Society of University Surgeons Distinguished Research Award
2001	Americas Hepato-Pancreatico-Biliary Congress Young Investigator Award
2000	New England Cancer Society Resident Research Award
2000	Society for Surgery of Alimentary Tract / Ross Research Travel Award
1999	Association for Academic Surgery – US Surgical Research Fellowship
1997	Hobart Amory Hare Memorial Medical Honor Society
1994	NIH Research Scholar Fellowship
1993	Alpha Phi Delta Honor Society
1993	Dean’s List – Pennsylvania State University

Licensure:

Ohio State Medical License (2012-2016) #35.099739
Massachusetts State Medical License (1999-2014) - #159960
College of Physicians and Surgeons of Ontario (July, 2004) - #81367

Certifications:

American Board of Surgery (October, 2005) - #061588
Recertification American Board of Surgery (December, 2015) - #061588
ATLS Instructor (1998-2004)
ACLS Instructor (1999-2001)

5. Membership in Professional Organizations:

Surgical Biology Club II (2014-present)
Central Surgical Association (2014-present)
American College of Physician Executives (2011-present)
Society of Asian American Surgeons (2011-present)
Society of University Surgeons (2010-present)
Massachusetts American College of Surgeons, Fellow (2009-2012)
American Association for the Study of Liver Diseases (2009-present)
American College of Surgeons, Fellow (2008-present)
American Society of Transplant Surgeons (2006-present)
Americas Hepato-Pancreatico-Biliary Association Member (2006-present)
Association of Academic Surgery Member (2006-present)
Society for Surgery of Alimentary Tract Member (2006-present)
Massachusetts Medical Society (1999-2004)
Advanced Trauma Life Support Instructor (1999-2004)
Advanced Cardiac Life Support (1999-2003)
Indian Medical Association of New England (1999-2004)
American Association of Physicians of India (1996-2001)
Jeff HOPE Homeless Shelter Clinic and Healthcare Project, Coordinator (1993-1997)
Introduction to Clinical Medicine Physical Diagnosis Tutorial, Coordinator (1996-1997)

6. Service

National Committees:

American College of Surgeons

Moderator: Quality, Cost & Outcomes I Session	2014
Association of Academic Surgery	
Program Committee	2007 - 2009
Issues Committee	2009 - 2011
Outcomes Committee	2011 - 2013
American Hepato-Pancreatico-Biliary Association	
Research Committee	2012 - 2013
Program Committee	2013 - 2017
Co-Program Chair	2016 - 2017
American Society of Transplantation	
LICOP Advocacy and Public Policy	2016-
American Society of Transplant Surgeons	
By-Laws Committee	2008 - 2010
Awards Committee	2011 - 2014
Standards and Quality Committee	2016 - 2018
ATC Abstract Review	2010 - 2016
End Stage Renal Disease Network of New England	
Board of Trustees	2008 - 2010
Society for Surgery of the Alimentary Tract	
Video Program Committee	2010
Moderator: Management of Variceal Bleeding	2015
Member Services Committee	2016 - 2017
Moderator: Management of Unknown Liver Lesions	2016
Moderator Video Session HPB	2016
Society of University Surgeons	
Publications Committee	2010 - 2012
Ethics and COI Committee	2012 - 2014
United Network for Organ Sharing	
Liver-Intestine Committee Region 1 Rep	2011 - 2012
Liver-Intestine Committee Region 10 Rep	2016 - 2018
<i>Local Committees:</i>	
<u><i>University of Massachusetts Medical School</i></u>	
Surgery Residency Education Committee	2006 - present
Department of Surgery Research Action Committee	2010 - 2011
Medical Cancer Center of Excellence	2011 - 2012
Human Factors Training Committee	2008 - present
<u><i>University of Massachusetts Memorial Health Care</i></u>	
Organ Allocation and Human Subjects Committee	2006 - present
Blood Bank Committee	2007 - present
Operations Committee - University Campus	2008 - 2009
Chair, Clinical Transplantation QAPI Committee	2009 - 2012
Director, Center for Clinical Research and Trials in Surgery	2009 - 2012
Primary Surgeon, Liver Transplantation MAUM	2006 - 2012
Primary Surgeon, Kidney Transplantation MAUM	2006 - 2012
Primary Surgeon, Pancreas Transplantation MAUM	2006 - 2012

University of Cincinnati Medical Center

Primary Surgeon, Liver Transplantation OHUC	2012 - present
Operating Room Turn Around Committee	2012 - present
Clinical Competency Committee Surgery Program R3	2013 - present
Director, Cincinnati Clinical Research Group in Surgery	2013 - present
Medical Director, 6NW Nursing Floor	2013 - present
Department of Surgery Clinical Compensation Committee	2015 - present
UC Health Strategic Initiative Review Process	2016 - present
UC Health Board Strategy Committee	2016 - present

Regional Committees:

New England Program for Kidney Exchange Advisory Committee	2008 - 2010
Region 1 Renal Transplant Oversight Committee Chair	2008 - 2010
New England Consortium for Liver Transplantation Chair	2011 - 2013
Massachusetts Chapter American College of Surgeons Program Committee	2010 - 2012
LifeCenter Organ Donor Network Medical Advisory Board	2012 - present
LifeCenter Organ Donor Network Assistant Medical Director	2012 - present
Ohio Solid Organ Transplant Consortium – Liver/Intestine Chair	2015 - 2016
Ohio Solid Organ Transplant Consortium – Board of Directors	2016 - present

Major Administrative Positions:

2008 - 2012	Director, Center for Clinical Research and Trials University of Massachusetts Medical School Worcester, MA
2008 - 2012	Director, Quality Assessment Performance Improvement, Division of Organ Transplantation University of Massachusetts Memorial Health Care Worcester, MA
2012 - present	Director, Liver Transplantation and Hepatobiliary Surgery University of Cincinnati, College of Medicine, Department of Surgery Cincinnati, OH Director, Cincinnati Research in Outcomes and Safety in Surgery (CROSS), Department of Surgery, Cincinnati, OH

Professional Activities:

Chairman of Symposia / CME Programs:

1. Advances in Liver & Biliary Tract Diseases. September 21, 2013. Drake Hospital, University of Cincinnati, Cincinnati, OH.
2. Hepatocellular Carcinoma: Challenges of a Rapidly Increasing Malignancy. September 27, 2014. Drake Hospital, University of Cincinnati, Cincinnati, OH.
3. Perspectives in Cirrhosis and End Stage Liver Disease. November 7, 2015. Drake Hospital, University of Cincinnati, Cincinnati, OH.

National/International Distinguished Activities:

1. Invited Faculty: Harrington Hospital: Abdominal Transplant: What the General Practitioner Should Know. Southbridge, MA, May, 2007.
2. Invited Faculty: St. Vincent's Hospital: End Organ Failure and Liver Transplantation. Worcester, MA, May, 2007.
3. Invited Faculty: Berkshires Medical Center / Surgery Grand Rounds Visiting Professor: New Surgical Approaches to the Management of Liver Diseases. Pittsfield, MA, July, 2007.
4. Invited Faculty: Leominster Hospital / Oncology Grand Rounds: Role of Liver Resection for Colorectal Metastases. Leominster, MA, March, 2008.
5. Invited Faculty: American Transplant Congress Pre-Meeting Symposia: Technical Considerations in Split and Living Donor Liver Transplant. Toronto, Canada, May, 2008.
6. Invited Faculty: National Kidney Foundation: Donor Selection and Outcomes. Worcester, MA, April, 2009.
7. Invited Faculty: Berkshire Medical Center Grand Rounds: Liver Transplantation 2010 Update. Pittsfield, MA. January, 2010.
8. Invited Faculty: American Hepato Pancreatico-Biliary Association 2011 Annual Meeting: Transplantation for Hepatocellular Carcinoma. Miami, FL. April, 2011.
9. Invited Faculty: St. Elizabeth's Medical Center Medical Grand Rounds: Hepatocellular Carcinoma: Challenges for a Rapidly Increasing Malignancy. Brighton, MA. January, 2012.
10. Invited Faculty: Berkshire Medical Center Surgery Grand Rounds: Hepatocellular Carcinoma: Challenges for a Rapidly Increasing Malignancy. Pittsfield, MA. January, 2012.
11. Invited Faculty: American Hepato Pancreatico-Biliary Association 2012 Annual Meeting: Great Controversies of Our Time – Transplantation. Miami, FL. March, 2012.
12. Invited Faculty: St. Elizabeth's Medical Center Surgery Grand Rounds: Liver Transplantation: The Good, the Bad, and the Ugly. Brighton, MA. May, 2012.
13. Invited Faculty: University Health Network, University of Toronto Bernard Langer HPB and Transplant Fellowship Symposium: Clinical Research: Past, Present and Future. Toronto, ON. October, 2012.
14. Invited Faculty: Good Samaritan Hospital Department of Surgery Grand Rounds: Controversies in Hepatobiliary Surgery: Gallbladder and Bile Duct. Cincinnati, OH. November, 2012.
15. Invited Faculty: The Christ Hospital Medicine Grand Rounds: Hepatocellular Carcinoma: Challenges for a Rapidly Increasing Malignancy. Cincinnati, OH. November, 2012.
16. Invited Faculty: Good Samaritan Hospital Hatton Medicine Grand Rounds: Hepatocellular Carcinoma: Challenges for a Rapidly Increasing Malignancy. Cincinnati, OH. February, 2013.
17. Invited Faculty: Washington University in St. Louis Transplant Grand Rounds: Redefining Quality in Liver Transplantation. St. Louis, MO. September, 2013.

18. Invited Faculty: Association of Academic Surgery Fall Leadership Development Course: MPH, MBA Med: Are extra degrees necessary for advancement in Academic Surgery. Washington DC. October, 2013.
19. Invited Faculty: Ohio Solid Organ Transplantation Consortium: Controversies in OR Management in regards to Optimal Donor Procurement. Columbus, OH. September, 2014.
20. Invited Faculty: American College of Surgeons Panel Session: Diagnosis and Management of Incidental Liver Masses: Management of Incidental Malignant Liver Masses. San Francisco, CA. October, 2014.
21. Invited Faculty: Surgeons, Scholars and Leaders: Personalities and Subspecialties: Is There a "Right Fit" for an Academic Surgical Career. Jackson Hole, WY. January, 2015.
22. Invited Faculty: American Society of Transplant Surgeons Winter Symposium: MELD+BMI>SBP. Selecting Good Recipients for Liver Transplantation. Miami, FL. January, 2015.
23. Invited Faculty: Digestive Disease Combined Clinical Symposia: Managing Gastrointestinal Bleeding in Cirrhosis; Role of Surgery in Variceal Bleeding. Washington, D.C. May, 2015.
24. Invited Faculty: American Gastroenterology Association Clinical Symposia: Economics of Diagnosis and Treatment of Chronic Liver Disease; Economic and Resource Utilization of MELD in Liver Transplant. Washington, D.C. May, 2015.
25. Invited Faculty: Association of Academic Surgery Fall Leadership Development Course: How Will You Bring Value to Your Department (rVU's, tVU's, quality)? Chicago, IL. October, 2015.
26. Invited Faculty: Surgical Biology Club II: Development of a Patient Centered Medical Home in Liver Transplantation. Chicago, IL. October, 2015.
27. Invited Faculty: Surgeons, Scholars and Leaders: Years 5-10 Finding Your Niche. Jackson Hole, WY. January, 2016.
28. Invited Faculty: Surgeons, Scholars and Leaders: Managing Your Time. Jackson Hole, WY. January, 2016.
29. Invited Faculty: International Pancreatico-Hepatobiliary Association: HCC Symposium: Patient Selection for Liver Transplantation. Sao Paulo, Brazil. April, 2016.
30. Invited Faculty: Digestive Disease Week: Multidisciplinary Management of Liver Tumors: Management of Vascular Liver Tumors. San Diego, CA. May, 2016.
31. Invited Faculty: American Transplant Congress: Telemedicine: Excite, Engage, and Enhance Patient Centered Care in Transplantation and Living Donation Presentation: Telemedicine Post-Transplant: Expanding Where Healthcare Happens. Boston, MA. June 2016.

Editorial Service:

Journal of GastroIntestinal Surgery

Manuscript Review:

American Journal of Transplantation (5 per year)

Annals of Surgery (5 per year)

Annals of Surgical Oncology (1 per year)
Digestive Disease and Surgery (5 per year)
Journal of the American College of Surgeons (8 per year)
Journal of the Pancreas (1 per year)
Journal of Surgical Research (3 per year)
Liver Transplantation (8 per year)
Surgery (20 per year)
Surgical Oncology (3 per year)

Local / Community Activities

UC Health Team for American Liver Foundation Liver Life Walk (2013-current)
Annual Liver Symposium (2013-current)
James and Catherine Orr Endowed Chair in Liver Transplantation

Mentorship

University of Massachusetts Medical School

2007 - 2009	Nicholas Csikesz, Class of 2009
2008 - 2010	Anand Singla, Class of 2010
2007 - 2011	Jason Wiseman, Class of 2011
2007 - 2011	Maia Sharuk, Class of 2011
2008 - 2012	Beth Colombo, Class of 2012
2009 - 2012	Deepak K. Ozathil, Class of 2012
2011 - 2012	Nicole Cherng, Class of 2014
2011 - 2012	Chris Macomber, MD, MBA

University of Massachusetts Medical School Longitudinal Preceptorship Program

2007-2011	Jason Wiseman
2009-2010	Alex Ramirez
2010-2012	Christine Foley

University of Massachusetts Medical School & New England Organ Bank

2008-2012	Director, Organ Donation Elective in Transplantation
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University of Cincinnati School of Medicine

2014-2016	Audrey Ertel, MD
2016-2018	Vikram Dahr, MD, MS

7. Teaching

Currently, spend 25% time teaching medical students, residents, surgical fellows and PharmD fellows. This does not include time spent teaching in the operating theatre. In 2016, received the University of Cincinnati Department of Surgery Resident Teaching Award.

Local Teaching/Education at Insitution for Trainees:

2006	Surgery CASS Lecture in Transplantation / Immunology
	Surgery CASS Lecture in Hepatobiliary Anatomy
	Medical Student Clerkship Lecture in Transplantation (4 classes)

- 2007
Surgery CASS Lecture in Transplantation / Immunology
Surgery CASS Lecture in Hepatobiliary Anatomy
Surgery CASS Lecture in Pancreas Anatomy and Physiology
Medical Student Clerkship Lecture in Transplantation (4 classes)
- 2008
Surgery CASS Lecture in Transplantation / Immunology
Surgery CASS Lecture in Hepatobiliary Anatomy
Surgery CASS Lecture in Oral Board Preparation
Medical Student Clerkship Lecture in Transplantation (4 classes)
Human Factors in Surgery Clerkship (4 classes)
Medical Student Surgery Workshop – Career in Surgery
Surgical Gross Anatomy – The Liver
- 2009
Surgery CASS Lecture in Hepatobiliary Anatomy
Surgery CASS Lecture in Oral Board Preparation
Medical Student Clerkship Lecture in Transplantation (4 classes)
Human Factors in Surgery Clerkship (4 classes)
Surgical Gross Anatomy – The Liver
Introduction to the Core Clinical Experience – Abdominal Exam
- 2010
Surgery CASS Lecture in Hepatobiliary Masses
Surgery CASS Lecture in Hepatobiliary Anatomy
Hepatobiliary Anatomy Review – Berkshires Surgical Residency
Medical Student Clerkship Lecture in Transplantation (4 classes)
Introduction to the Core Clinical Experience – Abdominal Exam
- 2011
Surgery CASS Lecture in Hepatobiliary Masses
Surgery CASS Lecture in Hepatobiliary Anatomy
Medical Student Clerkship Lecture in Transplantation (4 classes)
Introduction to the Core Clinical Experience – Abdominal Exam
University of Massachusetts Medical School ICE Series –
Liver Transplantation
- 2012
Surgery CASS Lecture in Hepatobiliary Anatomy
Introduction to the Core Clinical Experience – Abdominal Exam
Anatomy of Liver
Transplant Surgery and Anatomy – The Radiologist’s Perspective
Hepatocellular Carcinoma – Transplant Lecture Series
Anatomy of the Porta Hepatis – Core Curriculum
- 2013
HPB Skills Lab
Portal hypertension – Core Curriculum
Clinical Competency Committee R3 Class
ICU Management of the Liver Transplant Patient – SICU Rounds
Care of the Liver Transplant Patient – 6NW Nursing Rounds
Organ Donation – Neurosurgery Grand Rounds
- 2014
Anatomy of the Porta Hepatis – Core Curriculum
Transplant Research Rounds
Clinical Competency Committee R3 Class
ICU Management of the Liver Transplant Patient – SICU Rounds
- 2015
Anatomy of the Porta Hepatis – Core Curriculum
Transplant Research Rounds

2016
Transplant Journal Club
Clinical Competency Committee R3 Class
ICU Management of the Liver Transplant Patient – SICU Rounds
Professor Rounds – Biliary Tract
Transplant Research Rounds
Transplant Journal Club
Clinical Competency Committee R3 Class
ICU Management of the Liver Transplant Patient – SICU Rounds
Care of the ESLD Patient – Pulmonary Critical Care Rounds
Biliary Disease – Score Lecture

Regional/National Lectureships:

1. Faculty: University of Toronto: Management of hepatocellular carcinoma. Hepatology Rounds, Toronto, Ontario, May, 2005.
2. Faculty: University of Toronto: Analysis and outcomes of right lobe living-donor hepatectomy in 101 consecutive patients. Department of Surgery Annual Assembly, Toronto, Ontario, June, 2005.
3. Faculty: University of Toronto: Median sternotomy for large hepatocellular carcinomas. Hepatology Rounds, Toronto, Ontario, June, 2005.
4. Faculty: Toronto General Hospital / University of Toronto: Living donor liver transplantation. Multi-Organ Transplant Rounds, Toronto, Ontario, June, 2005.
5. Faculty: University Health Network / University of Toronto: Surgical treatment of hepatocellular carcinoma; Outcomes of University Health Network and Mt. Sinai Hospital. Hepatoma Rounds, Toronto, Ontario, June, 2006.
6. Invited Faculty: University of Massachusetts Memorial Medical Center / University of Massachusetts Medical School: Hepatitis C and the Surgeon. Family Medicine Grand Rounds. Worcester, MA, November, 2006.
7. Invited Faculty: University of Massachusetts Memorial Medical Center / University of Massachusetts Medical School: Current Status of Abdominal Transplantation Family Medicine Grand Rounds. Worcester, MA, February, 2006.
8. Faculty: University of Massachusetts Memorial Medical Center / University of Massachusetts Medical School: Liver transplantation: What the gastroenterologist needs to know. Hepatobiliary / GI Conference. Worcester, MA, March, 2007.
9. Invited Faculty: University of Massachusetts Memorial Cancer Center / University of Massachusetts Medical School GI Cancer Program: Liver resection for metastatic colorectal carcinoma in a large population. Worcester, MA, May, 2007.
10. Invited Faculty: University of Massachusetts Memorial Medical Combined Grand Rounds: New Surgical Approaches to the Management of Liver Diseases. Worcester, MA, October, 2007.
11. Faculty: University of Massachusetts Memorial Transplantation Seminar: Technique of Abdominal Transplantation. Worcester, MA, February, 2008.
12. Faculty: University of Massachusetts Medical School / Clinical Anatomy Seminar: Anatomy of the Liver. Worcester, MA, February, 2008.
13. Faculty: University of Massachusetts Memorial Medical Center / Intensive Care Seminar: Infections in the Immunocompromised Host. Worcester, MA, March, 2008

14. Faculty: University of Massachusetts Memorial Medical Center / Operating Room Services: Transplantation. Worcester, MA, January, 2009.
15. Faculty: University of Massachusetts Memorial Medical Center / Transplant Support Group: Living Donor Liver Transplantation. Worcester, MA, March, 2009.
16. Faculty: University of Massachusetts Memorial Medical Center / Intensive Care Multidisciplinary Rounds: Care of the Liver Transplant Recipient. Worcester, MA, April, 2009.
17. Invited Faculty: University of Massachusetts Memorial GI Cancer Program Workshop: Liver Metastases: Surgery and Beyond. Worcester, MA. October, 2009.
18. Faculty: University of Massachusetts Radiology Rounds: Transplant Surgery and Anatomy. Worcester, MA. October, 2009.
19. Faculty: University of Massachusetts Memorial Medical Center / Transplant Support Group: Kidney Transplantation. Worcester, MA, February, 2010.
20. Faculty: University of Massachusetts Medical School / Greatest Gift Inc. UMass Chapter: Organ Donation. Worcester, MA. December, 2010.
21. Faculty: University of Massachusetts Memorial Medical Center / Critical Care Conference: Management of the Liver Transplant Patient. Worcester, MA. May, 2011.
22. Faculty: UMass Memorial Medical Center / GI Division Conference: Revisiting Quality in Liver Transplantation. Worcester, MA. December, 2011.
23. Faculty: University of Massachusetts Memorial Medical Center / Perioperative Team Meeting: Quality Improvement Project To Enhance The Patient Experience and Impact Turnover Time. Worcester, MA. January, 2012.
24. Faculty: University of Massachusetts Memorial Medical Center / HCC Symposium: Downstaging Hepatocellular Carcinoma. Worcester, MA. February, 2012
25. Faculty: University of Cincinnati Medical Center GI Oncology Cancer Center: HCC as a model for cancer center development: clinical and translational research. Cincinnati, OH. March, 2013.
26. Invited Faculty: Advances in Liver and Biliary Tract Disease: Hepatocellular Carcinoma. Cincinnati, OH. September, 2013.
27. Invited Faculty: University of Cincinnati Department of Neurosurgery Grand Rounds: Life after Loss: The Gift of Organ and Tissue Donation. Cincinnati, OH. November, 2013.
28. Faculty: University of Cincinnati Nurse Practitioner Geriatric Program: Liver Failure and Transplantation. Cincinnati, OH. November, 2013.
29. Invited Faculty: WVXU Special Seminar Round Table: Organ Donation and Transplantation. Cincinnati, OH. April, 2014.
30. Invited Faculty: UC Health Hepatocellular Carcinoma: Advances & Challenges for a Rapidly Increasing Malignancy: Resection vs. Transplantation for a 3cm HCC in Child A Cirrhotic. Cincinnati, OH. September, 2014.
31. Invited Faculty: National Telehealth Symposium: Using Technology in the Care of Liver Transplant Patients. Cincinnati, OH. March, 2015.
32. Invited Faculty: UC Health Board of Trustees Retreat: Remote Monitoring in Liver Transplantation. Cincinnati, OH. July, 2016.

8. Research

Grants / Funding:

1. **Shah SA** and Iliakis G. *In Vitro* rejoining of DNA double strand breaks. NIH Research Scholar Fellowship. 1994. Peer reviewed.
2. **Shah SA**. Apoptosis and Human Pancreatic Cancer. 1998-2000 Association of Academic Surgery / United States Surgical Research Fellowship. Sponsor: Mark P. Callery, MD \$30,000 Total Costs. Peer reviewed.
3. Callery MP, **Shah SA**, McDade TP, and Perugini RA. Ubiquitin-proteasome inhibition in human pancreatic cancer. University of Massachusetts Our Danny Cancer Research Fund. 1999-2000. \$15,000 Total Costs. Peer reviewed.
4. **Shah SA**. Hepatitis C-induced Hepatocellular Carcinoma Before and After Transplantation. American Society of Transplant Surgeons – Astellas Faculty Career Development Award. 2006-2009. \$70,000 Total Costs. Peer reviewed.
5. **Shah SA**. Hepatitis C-induced Hepatocellular Carcinoma. Worcester Foundation for Biomedical Research Annual Research Award. 2007-2009. \$30,000 Total Costs. Peer reviewed.
6. Quintini C, **Shah SA**. Decreasing steatosis of fatty donor livers utilizing normothermic machine perfusion preservation and a pharmacologic defatting cocktail. Ohio Solid Organ Transplantation Consortium. 2013-2014. \$30,000 Total Costs. PI: Quintini. Peer reviewed.
7. Kelly D, Humphreville VR, **Shah SA**. Monitoring physical activity in Liver Transplantation. Ohio Solid Organ Transplantation Consortium. 2014-2015. \$10,000 Total Costs. Peer reviewed.
8. **Shah SA**. Development of an Integrated Patient-Centered Tele-Medical Home in Transplantation. University of Cincinnati Comparative Effectiveness and Patient Centered Outcomes Research Pilot Grant. 2014-2015. \$20,000 Total Costs. Peer reviewed.
9. **Shah SA**, Kaiser TE, Ertel AE, Sampsel D, Eckman M. Smart Care Delivery To Improve Adherence in Liver Transplantation. UC Health and University of Cincinnati Academic Health Center. 2015-2016. \$20,000 Total Costs. Peer reviewed.
10. **Shah SA** Eckman M, Kaiser TE, Kues J, Sampsel D. Comparative Effectiveness of a Home Management Program Vs. Traditional Care Model in Liver Transplantation. NIH R01-12179778. \$1,039,000 Total Costs. Submitted. PI. Peer reviewed.

Commercial / Pharmaceutical Clinical Trial Funding:

1. Novartis Pharmaceuticals. A 12-month, multi-center, randomized, open label non inferiority study comparing the safety and efficacy of concentration-controlled Everolimus with low dose tacrolimus to Cellcept (mycophenolate mofetil) with standard dose

tacrolimus in de novo renal transplant recipients. Novartis Study No. CRAD001AU92. Co-Investigator

2. Grifols, IG1102 – A Prospective, Single-blind, Randomized, Phase III Study to Evaluate the Safety and Efficacy of Fibrin Sealant Grifols (FS Grifols) as an Adjunct to Hemostasis during Parenchymous Tissue Open Surgeries. Co-Investigator

3. Ohio State Consortium of Transplant Centers. The Impact of Activity Monitoring on Functional Outcome Post Liver Transplant. Co-Investigator.

Peer Reviewed Articles:

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1. Cheong N, Okayasu R, **Shah SA**, Ganguly T., Mammen P. and Iliakis G: *In Vitro* Rejoining of Double Strand Breaks in Cellular DNA by Factors Present in Extracts of HeLa Cells. *International Journal of Radiation Biology* 69:655-677, 1996.
2. Iliakis G., Ganguly T., Pantelias G., Cheong N., Okayasu R., **Shah SA**, Nederostek D., and Nishimoto T: The Role of Alterations in Chromatin Conformation in DNA Double Strand Break Repair and Cellular Radiosensitivity. *International Journal of Radiation Biology* 70:623-629, 1997.
3. Blair S, **Shah SA**, Tamim W, Quinlan R, and Swanson R: Surgical Resection Improves Survival in the Treatment of Early Gastric Lymphomas. *Journal of Gastrointestinal Surgery* 2000; 4:304-309.
4. Ricciardi R, Chari RS, Schaffer BK, Kim RD, **Shah SA**, Potter MW, Quarfordt SH, and Meyers WC: Ischemia Preconditioning Protects the Cold-Preserved Liver Graft Through a Tyrosine Kinase-Dependent Mechanism. *Owen H. Wangenstein Surgical Forum 86th Annual Clinical Congress 2000, Volume LI*. 2000; LI: 329-330.
5. Claytor RB, Li JM, **Shah SA**, Harland RC, Rohrer MJ: Simvastatin induces apoptosis in proliferating Human Saphenous Vein Endothelial Cells Through PARP Cleavage. *Owen H. Wangenstein Surgical Forum 86th Annual Clinical Congress 2000, Volume LI*. 2000; LI: 362-363.
6. Potter MW, **Shah SA**, McEnany PM, Chari RS, and Callery MP. A Critical Appraisal of Laparoscopic Staging in Hepatobiliary and Pancreatic Malignancy. *Surgical Oncology* 2000; 9:103-110.
7. Potter MW, **Shah SA**, Elbirt KK, and Callery MP. Endotoxin (LPS) stimulates 4E-BP1/PHAS-I in Macrophages. *Journal of Surgical Research* 2001; 97:54-59.
8. Ricciardi R, Schaffer BK, **Shah SA**, Quarfordt SH, Banner BF, Wheeler SM, Donohue SE, Chari RS, and Meyers WC. Bosentan, An Endothelin Receptor Anatagonist, Augments Graft Function By Reducing Graft Circulatory Impairment Following Ischemia Reperfusion. *Journal of Gastrointestinal Surgery* 2001; 5:322-329.
9. **Shah SA**, Potter MW, Ricciardi R, Perugini RA, and Callery MP. FRAP-p70s6K Signaling is Required for Pancreatic Cancer Cell Proliferation. *Journal of Surgical Research* 2001; 97:123-130.
10. Ricciardi R, Meyers WC, Kim RD, Schaffer BK, **Shah SA**, Wheeler SM, Donohue SE, Sheth KR, Callery MP, and Chari RS. Protein Kinase C Inhibition Abrogates Hepatic Ischemic Preconditioning Responses. *Journal of Surgical Research* 2001; 97:144-149.

11. **Shah SA**, Potter MW, McDade TP, Ricciardi R, Perugini RA, Elliot PJ, Adams J, and Callery MP. 26S Proteasome Inhibition Induces Apoptosis and Limits Growth of Human Pancreatic Cancer. *Journal of Cellular Biochemistry* 2001; 82: 110-122.
12. **Shah SA**, Potter MW, Hedeshian MH, Kim RD, Chari RS, and Callery MP. PI-3'Kinase and NF- κ B Cross-signaling in human pancreatic cancer cells. *Journal of Gastrointestinal Surgery* 2001; 5: 603-614.
13. Ricciardi R, Schaffer BK, Kim RD, **Shah SA**, Donohue SE, Wheeler SM, Quarfordt SH, Callery MP, Meyers WC, and Chari RS. The Protective Effects of Ischemic Preconditioning on the Cold Preserved Liver Are Tyrosine Kinase Dependent. *Transplantation* February 2001; 72: 406-412.
14. Ricciardi R, **Shah SA**, Schaffer BK, Kim RD, Quarfordt SH, Callery MP, Meyers WC, and Chari RS. Cell Signaling in Hepatic Ischemic Preconditioning. *Owen H. Wangenstein Surgical Forum 86th Annual Clinical Congress 2000, Volume LI*. 2001; LII: 30-34.
15. **Shah SA**, Potter MW, and Callery MP. Ubiquitin Proteasome Pathway: Implications and Advances in Cancer Therapy. *Surgical Oncology* 2001; 10: 43-52.
16. **Shah SA**, Potter MW, and Callery MP. Ubiquitin Proteasome Inhibition and Cancer Therapy. *Surgery* 2002; 131: 595-600.
17. Ricciardi R, **Shah SA**, Wheeler SM, Quarfordt SH, Callery MP, Meyers WC and Chari RS. Regulation of NF- κ B in Hepatic Ischemic Preconditioning. *Journal of American College of Surgeons* 2002; 195: 319-326.
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139. Ertel AE, Wima K, Chang AL, Edwards MJ, Abbott DE, **Shah SA**. Risk of Reoperation Within 90 Days of Reoperation: A Necessary Evil? *Journal of the American College of Surgeons*. 2016; 222: 419-428.
140. Sutton JM, Hoehn RS, Ertel AE, Wilson GC, Hanseman DJ, Wima K, Sussman JJ, Ahmad SA, **Shah SA**, Abbott DE. Cost Effectiveness in Hepatic Lobectomy: the Effect of Case Volume on Mortality, Readmission and Cost of Care. *Journal of Gastrointestinal Surgery*. 2016; 20: 253-61.
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142. Reznichencko A, Paterno F, Bondoc A, **Shah SA**. Elective surgical management of hepatic pseudoaneurysm 6 months following liver transplantation. *Journal of Gastrointestinal Surgery*. In Press.
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144. Reznichencko A, Klingbiel L, **Shah SA**. Giant Primary Yolk Sac Tumor of the Liver. *Journal of Gastrointestinal Surgery*. In Press.
145. Chang AL, Cortez AR, Bondoc A, Schauer DP, Fitch A, **Shah SA**, Woodle ES, Diwan T. Metabolic syndrome in liver transplantation: A preoperative and postoperative concern. *Surgery*. In Press.
146. Hoehn RS, Hanseman DJ, Chang AL, Daly MC, Ertel AE, Abbott DE, **Shah SA**, Paquette IM. Surgeon Characteristics Supersede Hospital Characteristics in Mortality After Urgent Colectomy. *Journal of Gastrointestinal Surgery*. In Press.
147. Daly MC, Hanseman DJ, Abbott DE, **Shah SA**, Paquette IM. Hospital Variability in Use of Adjuvant Chemotherapy in Patients With Stage 2 and 3 Colon Cancer. *Diseases of the Colon and Rectum*. In Press.
148. Kim Y, Chang AE, Wima K, Ertel AE, Diwan T, Abbott DE, **Shah SA**. The Impact of Morbid Obesity on Resource Utilization Following Kidney Transplantation. *Surgery*. In Press.
149. Ertel AE, McHenry D, Hanseman DJ, Wima K, Saeed N, Hoehn RS, Ahmad SA, Sussman JJ, Edwards MJ, **Shah SA**, Abbott DE. Surgeon, Not Technique, Defines Outcomes Following Central Venous Port Insertion: An Opportunity for Programmatic Efficiency. *Journal of Surgical Research*. Submitted.
150. Ertel AE, Chang AE, Hoehn RS, Wima K, **Shah SA**, Abbott DE. Variability in Post-Operative Resource Utilization Following Pancreaticoduodenectomy: Who's Responsible? *Surgery*. In Press.

Quality Review of Publications:

1. **Shah SA**, Potter MW, McDade TP, Ricciardi R, Perugini RA, Elliot PJ, Adams J, and Callery MP. 26S Proteasome Inhibition Induces Apoptosis and Limits Growth of Human Pancreatic Cancer. *Journal of Cellular Biochemistry* 2001; 82: 110-122.
This publication is the first to show an in vitro and in vivo effect of 26S proteasome inhibition in pancreatic cancer and show merit to potential human trials as an anti-cancer agent.
Citations: 281
2. **Shah SA**, Haddad R, Al Sukhni W, Kim RD, Greig PD, Grant DR, Taylor BR, Langer B, Gallinger S and Wei AC. Surgical resection of hepatic and pulmonary metastases from colorectal carcinoma. *Journal of the American College of Surgeons* 2006; 202: 468-475.
One of the largest series documenting the benefits of lung and liver resections for patients with metastatic colon cancer in a selected series.
Citations: 219
3. **Shah SA**, Grant DR, Greig PD, McGilvray ID, Adcock LD, Girgrah N, Wong P, Kim RD, Smith R, Lilly LB, Levy GA and Cattral MS. Analysis and outcomes of right lobe living-donor hepatectomy in 101 consecutive patients. *American Journal of Transplantation* 2005; 5: 2764-9.
At the time of publication, this report was the largest North American series of complications, outcomes and demonstration of a learning after living donor liver transplant in a single center. I created the database, generated the analysis and conducted the research.
Citations: 62

4. Eppsteiner RW, Csikesz NG, McPhee JT, Tseng JF, **Shah SA**. Surgeon Volume Impacts Morality After Pancreatic Resection. *Annals of Surgery*. 2009; 249: 635-640.
One of the first papers to show a center and surgeon effect on pancreatic resections in a case controlled fashion.
Citations: 110
5. Singla A, Csikesz NG, Simons JP, Li YF, Ng SC, Tseng JF, **Shah SA**. Admission Volume as a Determinant for Outcome in Patients Admitted with Acute Pancreatitis: A Case Controlled Analysis. *Gastroenterology*. 2009; 137: 1995-2001.
Using propensity scores, this paper showed the hospital volume benefit for a medical/surgical illness like acute pancreatitis.
Citations: 49
6. **Shah SA**, Smith JK, Li YF, Ng SC, Carroll JE, Tseng JF. Utilization of therapy of hepatocellular carcinoma in the Medicare population. *Cancer*. 2011; 117: 1019-1027.
This manuscript documented the lack of utilization of therapy in the United States in Medicare patients for resectable or early stage hepatocellular carcinoma. These results were one of the first to show that access to centers predicts therapy more than biology and stage of cancer in the Medicare population.
Citations: 35
7. Ozthathil DK, Li YF, Smith JK, Tseng JF, Saidi RF, Bozorgzadeh A, **Shah SA**. Impact of Center Volume on Increased Risk Liver Transplant Outcomes. *Liver Transplantation*. 2011; 17: 1191-9.
Outcomes and use of marginal liver allografts can be mitigated with experience and center volume of these organs. This controversial but now well accepted paper was the first to show that benefits of marginal organs in appropriate centers.
Citations: 36
8. Quillin RC, Wilson GC, Wima K, Hohmann SF, Sutton JM, Paquette IM, Shaw JJ, Woodle ES, Abbott DE, **Shah SA**. Neighborhood Level Effects of Socioeconomic Status on Liver Transplantation Selection and Recipient Survival. *Clinical Gastroenterology and Hepatology*. 2014; 12: 1934-41.
The first report to show the effect of socioeconomic status after liver transplant and reduced survival. This study controlled for donor, recipient, center and regional effects to document the importance of socioeconomic status and burden on outcome.
Citations: 14
9. Wilson GC, Quillin RC, Hohmann S, Hoehn RS, Wima K, Woodle ES, Paterno F, Abbott DE, **Shah SA**. National Assessment of Readmissions After Liver Transplantation. *Liver Transplantation*. 2015; 21: 953-60.
This was the first national report of a cost and utilization burden of readmissions after liver transplantation.
Citations: 14
10. Hoehn RS, Wima K, Vestal MA, Weilage DJ, Hanseman DJ, Abbott DE, **Shah SA**. Hospital Safety-Net Burden Affects Cost and Outcomes After Surgery. *JAMA Surgery*. 2016; 151: 120-8.
This was the first paper to suggest that intrinsic qualities of safety-net hospitals lead to inferior surgical outcomes and increased cost across nine elective surgical procedures likely due to hospital resources and not necessarily patient factors. This paper led an

important policy movement to assess the importance of safety net hospitals and increased costs associated with their care.

Citations: 8

Invited Manuscripts:

1. Massimi T, **Shah SA**. Cell transplantation in the treatment of acute liver injury: Effect but no clear mechanism. *Journal of Surgical Research*. 2009; 157: 2-3.
2. Shaw JL, **Shah SA**. Use of a Third-Generation Perfluorocarbon for Preservation of Rat DCD Liver Grafts. *Journal of Surgical Research*. 2012; 176: 395-6.
3. Macomber CW, **Shah SA**. A Technique of Recipient Portal Venoplasty and Cuff Insertion for Portal Revascularization in Orthotopic Rat Liver Transplantation. *Journal of Surgical Research*. 2013; 181:69-70.
4. Macomber CW, **Shah SA**. Progenitor Cell Mobilizing Treatments prevent Experimental Transplant Arteriosclerosis. *Journal of Surgical Research*. 2013; 179: 45-6.
5. Diwan T, Paterno F, **Shah SA**. Use of Extended Criteria Deceased Donors in Adult Liver Transplant. *Current Surgery Reports: Liver Transplantation*. In Press.
6. Ertel AE, **Shah SA**. Surgical Approach to Hepatocellular Carcinoma. *Seminars in Roentgenology*. 2016; 51: .
7. Ertel AE, **Shah SA**. Mixed Transitional Liver Cell Tumor in a 23-year old Female: A case report. *Seminars in Roentgenology*. 2016; 51: 123-5.
8. Ertel AE, Chang AE, Kim Y, **Shah SA**. Management of Gastrointestinal Bleeding in the Cirrhotic Patient. *Current Problems in Surgery*.

Book Chapters:

1. Meyers WC, Callery MP, Schaeffer BK, and **Shah SA**. Staging, Resection and Ablation of Liver Tumors. In: Townsend CM, Beauchamp RD, Evers BM, et al, eds. *Sabiston Textbook of Surgery*. 16th Edition. Philadelphia, PA: W.B. Saunders; 2000: 1035-1044.
2. **Shah SA**, Alsoufi BA, and Callery MP: Bile Duct Cysts. In: Pappas TN, Purcell GP, et al, eds. *Unbound Surgery*. Internet Textbook; 2001.
3. **Shah SA** and Swanson RS. The Management of Colorectal Polyps. In: Cameron JL eds. *Current Surgical Therapy*. 8th Edition. New York, NY. Mosby; 2004: 233-236.
4. Potter MW, **Shah SA**, and Callery MP. Physiologic Implications of CO₂ Pneumoperitoneum and Minimally Invasive Methods: Liver Function and Portal Blood Flow. In: Whelan RL, Fleshman JW, Fowler DL eds. *The SAGES Manual of Peri-Operative Care in Minimally Invasive Surgery*. 2nd Edition. New York, NY: Springer-Verlag; 2005: 379-385.
5. **Shah SA**, Vollmer CM and Callery MP. Reoperative pancreatic surgery. In: Callery MP, ed. *Handbook of reoperative general surgery*. 1st Edition. Boston, MA: Blackwell; 2005.
6. **Shah SA** and Grant DR. Intestinal Transplantation/The Recipient: Registry Report and Long-Term Outcome. In: Gruessner RWG and Benedetti E eds. *Living Donor Organ Transplantation*. 1st Edition. New York, NY: McGraw-Hill; 2006.
7. **Shah SA** and Grant DR. Results of Intestinal Transplantation including Quality of Life. In: Langnas AN, Goulet O, Quigley EM et al. *Intestinal Failure: Diagnosis, Management and Transplantation*. 1st Edition. Oxford, UK: Blackwell; 2006.

8. Chari RS and **Shah SA**. Biliary System. In: Townsend CM, Beauchamp RD, Evers BM, et al, eds. *Sabiston Textbook of Surgery*. 18th Edition. Philadelphia, PA: W.B. Saunders; 2007. 1547-1588.
9. **Shah SA** and Cicalese L. Intestinal transplantation: Current Outcomes. In: Tan HP, Marcos A and Fisher R. *Living Donor Organ Transplantation*. 1st Edition.
10. **Shah SA** and Taylor RJ. Postoperative Care of the Pancreas Transplant Recipient. In: O'Donnell JM and Nacul FE, eds. *Surgical Intensive Care Medicine*. 2nd Edition. Boston, MA: Kluwer Academic Publishers; 2008. 639-649.
11. Shankar S, Dundmadappa SK, **Shah SA**. Imaging of Hepatic Transplantation for Biliary Tract Cancer. In: Thomas CR and Fuller CD, eds. *Biliary Tract and Gallbladder Cancer*. 1st Edition. Demos Publishing LLC; New York NY, 2009. 99-109.
12. Damle RN and **Shah SA**. Cirrhosis and Portal Hypertension. In: Zyromski N, eds. *Handbook of Pancreas and Hepatobiliary Surgery*. Lippincott Williams & Wilkins; Philadelphia, PA. 2015. 126-140.
13. Singhal A, Paterno F, **Shah SA**. Management of Portal Vein Thrombosis. In: Mulholland M, Upchurch G, Englesbe M, eds. *Operative Techniques in Surgery*. Lippincott Williams & Wilkins; Philadelphia, PA. In Press.
14. Paterno F and **Shah SA**. Biliary Strictures in Liver Transplantation. In: Dixon E, Vollmer CM, May G, eds. *Benign Biliary Stenosis*. Springer Science and Media; New York, NY. 2015. 385-400.
15. Ertel AE and **Shah SA**. Liver Transplantation for Hilar Cholangiocarcinoma. In: Ribero D and Pawlik TM, eds. *Cholangiocarcinoma: From Diagnosis to Treatment*. Nova Science Publishers; 2015. 299-309.
16. Chang AE and **Shah SA**. Management of Portal Hypertension. In: Yeo CJ, ed. *Shackelford's Surgery of the Alimentary Tract, 8th Edition*. Elsevier; Philadelphia, PA. 2017. In Press.

9. Distribution of Effort

Bedside and operative teaching	20%
Classroom teaching	5%
Clinical activity	40%
Service	5%
Administrative	15%
Research	15%
Total	100%

SAS

5/30/2017