

**Department of Surgery
FY 2017 Annual Report
July 1, 2016 to June 30, 2017**

EXECUTIVE SUMMARY

The Department of Surgery had an outstanding FY 2017. We exceeded our clinical charges and revenue, increased outside provider contracts, increased grants and contract submissions, negotiated new PSC support and new VA support for our providers and had a profitable bottom line. The Department continues to increase and strengthen its core mission of education, patient care, and research. We also created a new Surgery Executive Committee to manage the day-to-day operations of the Department, reporting back to the Chairman. In FY17 we added sixteen (16) faculty to the Department, four (4) of which were recruited to the Trauma Program. The past year also included transition as we had fifteen (15) resignations/non-renewals.

CLINICAL OVERVIEW

Overall, the charges and collections in FY 2017 exceeded both target and prior year. We credit a large part of this increase to the EPIC implementation. Our electronic medical record has permitted to us to have a more detailed charge capture documentation, which increased both our charges and collections. We also were very successful in adding additional provider contracts that increased our referral base and permitted us to grow our footprint throughout the State of Maryland.

The table below shows our Charges and Collections vs target and vs prior year.

	FY 2017 Target	Previous FY	FY 2017 Year-End	Status & Var. Trend		
Total Charges YTD	\$77,943,382	\$75,160,41	\$86,537,724	✓	11.0%	↑
Total Collections YTD	\$23,214,711	\$22,584,93	\$25,317,000	✓	9.1%	↑

The clinical programs primary case volume at UMMC in FY 2017 was 9,106 representing a 2.3% increase over FY 2016. We budgeted 9,455 cases for UMMC. We were able to transfer 305 additional ambulatory Urology cases to the Urology ASC in the 419 W. Redwood building and 116 additional ambulatory cases to the University of Maryland Midtown campus, thereby creating a positive variance of 72 cases for the year. These transfers permitted UMMC to free-up OR time for additional inpatient cases, was more cost effective for UMMC and generated additional collections for the Department.

Overall, billable case volume at all locations (system and non-system hospitals) was 12,270, representing a 5.1% increase over FY 2016. We budgeted 12,864. University of Maryland, St. Joseph Medical Center has the largest reduction in case volume, missing budget by 222 and prior year by 54.

Billable / Case Location	FY 2017 Cases, Actual	PFYTD Cases, Actual	YOY Case Variance	YOY Variance %	FY 2017 Budget	FYTD Budget Variance	YOY Budget Variance %
UMMC Primary	8,794	8,698	96	1.1 %	9,260	-466	-5.0 %
UMMC_Cath. Lab	190	204	-14	-6.9 %	195	-5	-2.6 %
UMMC_LL (Procurements)	122		122			122	
UM_Midtown	539	356	183	51.4 %	423	116	27.4 %
UMSA_URO ASC	689	531	158	29.8 %	384	305	79.4 %
UM_BWMC	59	85	-26	-30.6 %	100	-41	-41.0 %
UM_ROI	14	25	-11	-44.0 %	30	-16	-53.3 %
UM_SJMC	286	340	-54	-15.9 %	508	-222	-43.7 %
UM_SRMC_Chester River	103	67	36	53.7 %	111	-8	-7.2 %
UM_SRMC_Easton	233	313	-80	-25.6 %	363	-130	-35.8 %
UM_UCMC	337	358	-21	-5.9 %	461	-124	-26.9 %
PG_Dimensions Health	137	116	21	18.1 %	255	-118	-46.3 %
GBMC	184	132	52	39.4 %	165	19	11.5 %
Hanover	132	25	107	428.0 %	150	-18	-12.0 %
MedStar - FSH	42	30	12	40.0 %	78	-36	-46.2 %
Mercy	13		13			13	
Meritus, Hagerstown	115	134	-19	-14.2 %	164	-49	-29.9 %
Sinai	220	240	-20	-8.3 %	199	21	10.6 %
St. Agnes	61	16	45	281.3 %	16	45	281.3 %
TOTAL	12,270	11,671	599	5.1%	12,864	-594	-4.6%

We have increased market share in many of our divisions. Below are the most recent market share reports.

UMMC – Adult Cardiac Surgery

Inpatient Market Analysis



All Maryland Hospital
IP Discharges



UMMC IP Discharges



UMMC Market Share



- As a whole, Maryland hospitals experienced a 1.1% decrease in the number of adult cardiac surgery discharges from FY2015 – FY2017 Annualized.
- UMMC experienced an increase in the number of discharges during the same period (7.4% increase)
- This resulted in a 1.4 percentage point increase in market share

Top Hospitals	FY2015			FY2016			FY2017 Q3 (July 16 – Mar 17)			FY2017 (A)	FY2015-FY2017(A)	
	Discharges	Market Share	Rank	Discharges	Market Share	Rank	Discharges	Market Share	Rank	Discharges	Net Change	% Change
JOHNS HOPKINS	1,158	21.8%	1	1,093	19.8%	1	789	19.3%	1	1,852	-106	-9.2%
UMMC	945	17.2%	2	914	16.6%	2	761	18.6%	2	1,015	70	7.4%
UM SJMC	493	8.9%	5	540	9.8%	4	404	9.9%	3	539	-46	-9.3%
SINAI	469	8.5%	6	451	8.2%	6	374	9.2%	4	499	30	6.4%
UNION MEMORIAL	609	11.1%	3	559	10.1%	3	371	9.1%	5	485	-115	-18.9%
PENINSULA REGIONAL	498	9.0%	4	482	8.7%	5	278	6.8%	6	371	-127	-25.3%
WASHINGTON ADVENTIST	312	5.7%	7	298	5.4%	7	222	5.4%	7	296	-16	-3.1%
SUBURBAN	248	4.5%	8	259	4.7%	8	177	4.3%	8	236	-12	-4.8%
WESTERN MARYLAND	176	3.2%	9	196	3.6%	9	124	3.0%	9	165	-11	-6.3%
PRINCE GEORGES	121	2.2%	10	165	3.0%	10	85	2.1%	10	113	-8	-6.6%
OTHER PROVIDERS	450	8.7%		557	10.1%		500	12.2%		657	187	39.0%
GRAND TOTAL	5,510			5,514			4,085			5,448	-62	-1.1%
UMMS TOTAL	1,639	29.7%		1,713	31.1%		1,348	33.0%		1,797	158	9.6%

Source: HSCRC Non-Confidential Database; Excludes Patients Ages 0-17
Services Defined by APR-DWG

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UMMC – Adult Vascular Surgery

Inpatient Market Analysis



All Maryland Hospital
IP Discharges



UMMC IP Discharges



UMMC Market Share



- As a whole, Maryland hospitals experienced a 2.0% decrease in the number of adult vascular surgery discharges from FY2015 – FY2017 Annualized.
- UMMC experienced an increase in the number of discharges during the same period (1.4% increase)
- This resulted in a 0.2 percentage point increase in market share

Top Hospitals	FY2015			FY2016			FY2017 Q3 (July 16 – Mar 17)			FY2017 (A)	FY2015-FY2017(A)	
	Discharges	Market Share	Rank	Discharges	Market Share	Rank	Discharges	Market Share	Rank	Discharges	Net Change	% Change
JOHNS HOPKINS	593	7.6%	2	580	7.5%	2	512	8.9%	1	683	90	15.2%
UMMC	646	8.3%	1	690	8.9%	1	491	8.5%	2	655	9	1.4%
FRANKLIN SQUARE	496	6.3%	3	374	4.8%	4	292	5.1%	3	389	-101	-20.6%
UM BWMC	389	5.0%	4	390	5.0%	3	287	5.0%	4	383	-6	-1.5%
PENINSULA REGIONAL	297	3.8%	7	266	3.4%	9	265	4.6%	5	353	56	18.9%
HOLY CROSS	305	3.9%	6	350	4.3%	5	238	4.5%	6	344	39	12.8%
ST. AGNES	324	4.1%	5	317	4.3%	6	254	4.4%	7	339	15	4.6%
HOPKINS BAYVIEW	289	3.7%	8	290	3.7%	8	237	4.1%	8	316	27	9.3%
ANNE ARUNDEL	278	3.5%	9	301	3.9%	7	205	3.6%	9	273	3	1.1%
DOCTORS COMMUNITY	177	2.3%	19	202	2.6%	18	171	3.0%	10	228	51	28.8%
OTHER PROVIDERS	4,044	51.7%		3,992	51.5%		2,776	48.3%		3,701	-343	-8.3%
GRAND TOTAL	7,824			7,782			5,748			7,664	-160	-2.0%
UMMS TOTAL	1,844	23.6%		1,856	23.9%		1,369	23.8%		1,825	-19	-1.0%

Source: HSCRC Non-Confidential Database; Excludes Patients Ages 0-17
Services Defined by APR-DWG

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UMMC – Adult Thoracic Surgery

Inpatient Market Analysis



All Maryland Hospital IP Discharges



UMMC IP Discharges



UMMC Market Share



- As a whole, Maryland hospitals experienced a 4.5% decrease in the number of adult thoracic surgery discharges from FY2015 – FY2017 Annualized.
- UMMC experienced an increase in the number of discharges during the same period (40.2% increase)
- This resulted in a 4.2 percentage point increase in market share

Top Hospitals	FY2015			FY2016			FY2017 Q3 (July 16 – Mar 17)			FY2017 (A)			FY2015-FY2017(A)	
	Discharges	Market Share	Rank	Discharges	Market Share	Rank	Discharges	Market Share	Rank	Discharges	Net Change	% Change		
JOHNS HOPKINS	436	16.7%	1	435	17.4%	1	298	15.8%	1	397	-39	-9.9%		
UMMC	239	9.2%	2	318	12.7%	2	251	13.4%	2	335	96	40.2%		
ANNE ARUNDEL	215	8.2%	3	218	8.7%	3	162	8.7%	3	256	1	0.5%		
SUBURBAN	71	2.7%	13	74	3.0%	12	107	5.7%	4	143	72	101.4%		
UM BWMC	111	4.3%	8	105	4.2%	7	98	5.2%	5	131	20	18.0%		
FRANKLIN SQUARE	138	5.3%	4	113	4.3%	6	98	5.2%	5	131	-7	-5.1%		
PENINSULA REGIONAL	127	4.9%	5	114	4.6%	5	81	4.3%	7	108	-19	-15.0%		
ST. AGNES	87	3.3%	9	93	3.7%	8	61	3.3%	8	81	-6	-6.9%		
UM UPPER CHESAPEAKE	77	3.0%	11	71	2.8%	13	61	3.3%	8	81	4	5.2%		
HOLY CROSS	123	4.7%	7	119	4.8%	4	61	3.3%	8	81	-42	-34.2%		
OTHER PROVIDERS	956	37.6%		835	33.2%		591	31.0%		758	-195	-20.1%		
GRAND TOTAL	2,610			2,498			1,869			2,492	-118	-4.5%		
UMMS TOTAL	521	20.0%		578	23.1%		466	24.9%		621	100	19.2%		

Source: HSCRC Non-Confidential Database; Excludes Patients Ages 0-17
Services Defined by APR-DIG

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UMMC – Adult Transplant Surgery

Inpatient Market Analysis



Hospital Name	FY 2014			FY 2015			FY 2016			FY 2017 (Q3-Q5 Annualized)		
	Cases	Market Share	Rank	Cases	Market Share	Rank	Cases	Market Share	Rank	Cases	Market Share	Rank
UMMC	248	53.4%	1	251	52.4%	1	199	45.4%	2	205	55.6%	1
JOHNS HOPKINS	217	46.6%	2	228	47.6%	2	204	50.6%	1	164	44.4%	2
TOTAL	466	100.0%	N=2	479	100.0%	N=2	403	100.0%	N=2	369	100.0%	N=2

Market Share Source: HSCRC Non-confidential State Database APR-DRG: 440 Kidney Transplant

Excludes: Patients Ages 0-17

Hospital Name	FY 2014			FY 2015			FY 2016			FY 2017 (Q3-Q5 Annualized)		
	Cases	Market Share	Rank	Cases	Market Share	Rank	Cases	Market Share	Rank	Cases	Market Share	Rank
UMMC	162	52.6%	1	129	60.8%	1	153	58.2%	1	167	58.6%	1
JOHNS HOPKINS	92	47.4%	2	83	39.2%	2	110	41.8%	2	119	41.8%	2
TOTAL	194	100.0%	N=2	212	100.0%	N=2	263	100.0%	N=2	285	100.0%	N=2

Market Share Source: HSCRC Non-confidential State Database APR-DRG: 001 - Liver Transplant

Excludes: Patients Ages 0-17

Hospital Name	FY 2014			FY 2015			FY 2016			FY 2017 (Q3-Q5 Annualized)		
	Cases	Market Share	Rank	Cases	Market Share	Rank	Cases	Market Share	Rank	Cases	Market Share	Rank
UMMC	15	68.2%	1	18	75.0%	1	13	86.7%	1	21	75.0%	1
JOHNS HOPKINS	7	31.8%	2	6	25.0%	2	2	13.3%	2	7	25.0%	2
TOTAL	22	100.0%	N=2	24	100.0%	N=2	15	100.0%	N=2	28	100.0%	N=2

Market Share Source: HSCRC Non-confidential State Database APR-DRG: 006 - Pancreas Transplant

Excludes: Patients Ages 0-17

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FINANCIAL OVERVIEW

The Department budgeted make a profit of one dollar in FY2017. This budget included operating subsidy of \$2,791,436. With a 9% increase in cash collections, an overall 5% increase to total revenue and keeping total expenses within 1% of budget, the operating subsidy required for FY 2017 reduced to \$986,630. In future years, the UMMC has permanently allocated \$500,000 in additional PSC to cover existing structural deficits within the Division of Cardiac Surgery.

COST SAVINGS INITIATIVE (CSI)

- In FY 2017 the Department of Surgery continued to partner with the UMMC to develop a shared cost savings initiative with the goal to review all inpatient operations and incorporate efficiencies to reduce UMMC's surgical costs while maintaining patient safety, improving quality and outcomes.
- Dr. Bartlett commissioned Dr. Sarkar to spearhead the on-time start initiative at the UMMC. The initiative is to achieve a 7:15am start time at least 40% of the eligible surgical cases. If the first case starts on-time then the likelihood of having an efficiently run room is very high. Preliminary data shows that with Dr. Sarkar's leadership, seven of our eight divisions are meeting this goal.
- In order to ensure that we have sufficient beds for our increased volume, we are working with UMMC on a discharge time initiative. The initiative is to achieve a 2:00pm or earlier discharge time for at least 50% of the home, self-care inpatient admissions. Preliminary data shows that four of our eight divisions are meeting this goal.
- We continue to work with UMMC leadership, nursing and perioperative service on reducing pharmaceutical utilization. The initiative is to reduce surgery pharmaceutical costs by 2%.
- We continue to work with UMMC leadership, and nursing to reduce both length of stay and readmissions.
- The Department will continue these initiative in FY18

RESEARCH OVERVIEW

Overall, the research mission of the department had a very successful year in FY 2017. We increased overall award dollars by 15.5%, submitted 101 applications excluding non-competitive renewals and transfers. In FY2017 we added research expectations to our faculty incentive plan, representing 8% of the eligible incentive. Of the 8% research incentive, the Department met 6% of that goal.

RESEARCH

- 101 Grant Applications this Fiscal Year
- 19 New NIH applications
- 19 NIH sub-contract applications
- 3 other-Federal applications
- 42 Corporate, Foundation, & Industry sponsored applications

- 35 new awards TO Date
- 10 NIH awards/sub-contracts
- 11 other-Federal awards
- 14 Corporate, Foundation, & Industry awards
- Department of Surgery ranked 20th on the Blue Ridge Institute Ranking up from 22nd in 2015

Notable New Awards:

NIH

- Dr. Pierson – NIH U01 Admin. Supplement “Immunomodulation for Heart Allograft Tolerance”
- Dr. Wang – NIH RO1 “Intestinal Mucosal Growth in Health and Surgical Diseases”
- Dr. Bromberg – Columbia/ R01 Sub, “Innate B Cell Immunity and Chronic Antibody Mediated Rejection of Kidney Grafts”

NIH Subs

- Dr. Bromberg – Yale/NIH “Novel Biomarkers to Predict Outcomes in Kidney Transplant”
- Dr. Gammie – Mt. Sinai/NIH – “Evaluating Benefit of Concurrent Tricuspid”
- Dr. Azimzadeh – Uof Wisconsin/NIH PO1 “Tolerogenic Delivery of Donor Antigens for Cardiac Allograft Protection”
- Dr. Wu – Lehigh/NIH “Multiscale Predictive Modeling of Blood Cell Damage with Experimental Verification”

DOD/ DOD Subs

- Dr. Barth “Enhanced Immune Regulation to Vascularized Composite Allografts”

Foundation/Other

- Dr. Kaushal – Childrens’ Heart Foundation “Stem Cell Therapy Hypoplastic Left Heart Syndrome Patients”
- Dr. Kaushal – TEDCO “Neonatal Cardiac Stem Cells for Heart Regeneration”

- Dr. Bromberg – UMD College Park/JDRF “Engineering Local Lymph Node Function to Promote Systematic Antigen-Specific Tolerance”

Corporate

- Dr. Bartlett – Lung Biotechnology PBC “Cardiac Xenotransplant Development and Regulatory Approval Project”
- Dr. Bartlett – “Capital Expenditure Cardiac Xenotransplant Development”

Submitted NIH RO1/ UO1 Proposals, Pending Review

PI	Sponsor	Title	Submission date	Score/Date expected
Siddiqui	NIH UO1	Enhanced prostate cancer active surveillance with imaging and genomics	4/11/2017	Aug-17
Griffith	NIH R01	Development and Pre-Clinical Trial Qualification of a Pediatric Pump-Lung System for Children	6/5/2017	October-17
Wu	NIH R01	Characterization and Mechanisms of Paradoxical Effects of non-Physiological Shear on Platelets	6/5/2017	October-17
Balenga	NIH R01	Validation of GPR64 as a Regulator of Parathyroid Function	6/5/2017	October-17
Kaushal	NIH R01	Laser enhanced thermography for detection of intestinal ischemia	6/5/2017	October-17

RESEARCH TABLES:

Table 1: Revenue from Awards by Type - Fiscal Year 2016 vs. Fiscal Year 2017

FY16 vs FY17 Revenues from Awards by Type				
	FY2016	FY2017	Variance \$	Variance %
Total NIH	\$7,738,633	\$6,450,385	-\$1,288,248	-16.6%
Total Other Federal	\$2,352,570	\$1,849,884	-\$502,686	-21.4%
Total Other	\$4,173,228	\$8,168,702	\$3,995,474	95.7%
TOTAL	\$14,264,431	\$16,468,971	\$2,204,540	15.5%

Table 2: Revenue from Awards Fiscal Year 2016 vs. Fiscal Year 2017

FY16 vs FY17 Revenues from Awards				
	FY2016	FY2017	Variance \$	Variance %
Common Trust	\$340	\$0	-\$340	-100.0%
Federal Standard:				
DOD	\$1,521,664	\$1,127,738	-\$393,926	-25.9%
IPA/Contract	\$537,390	\$453,199	-\$84,191	-15.7%
NIH	\$6,053,236	\$4,938,396	-\$1,114,840	-18.4%
Non-Gov. Deliverable:				
Corporate	\$2,995,436	\$7,011,784	\$4,016,348	134.1%
DOD Subcontract	\$32,412		-\$32,412	-100.0%
Foundation	\$250,000		-\$250,000	-100.0%
NIH Subcontract	\$33,159	\$102,530	\$69,371	209.2%
Non-Gov. Standard:				
Corporate	\$307,005	\$1,012,314	\$705,309	229.7%
DOD Subcontract	\$137,451	\$195,028	\$57,577	41.9%
Foundation	\$98,708	\$106,829	\$8,121	8.2%
Other non-profit	\$287,365	\$24,322	-\$263,043	-91.5%
NIH Subcontract	\$1,275,356	\$729,644	-\$545,712	-42.8%
State Deliverable:	\$4,285		-\$4,285	-100.0%
State Standard:				
MD TEDCO	\$220,188	\$1,183	-\$219,005	-99.5%
NIH Subcontract	\$376,882	\$679,815	\$302,933	80.4%
DOD Subcontract	\$123,653	\$73,919	-\$49,734	-40.2%
Other	\$9,901	\$12,270	\$2,369	23.9%
Totals	\$14,264,431	\$16,468,971	\$2,204,540	15.5%

Table 3: Revenue from Federal Awards by Department/Program Fiscal Year 2015 vs. Fiscal Year 2016

FY17 Revenues from Federal Awards by Department/Program				
	Surgery	CVID	Trauma	Total
NIH- direct	\$2,307,816	\$2,443,621	\$194,825	\$4,946,262
NIH -subcontract	\$1,428,617		\$75,506	\$1,504,123
Total NIH	\$3,736,433	\$2,443,621	\$270,331	\$6,450,385
Other Federal- direct	\$1,198,847		\$382,090	\$1,580,937
Other Federal- subcontract	\$131,435		\$137,512	\$268,947
Total Other Federal	\$1,330,282	\$0	\$519,602	\$1,849,884
TOTAL FEDERAL	\$5,066,715	\$2,443,621	\$789,933	\$8,300,269

Table 4: Grant Proposal Submissions and funded to date FY2017

Grant Proposal Submissions (EXCLUDING non-competitive renewals and transfers)		
Type	FY2017	
	# submitted	# funded TO DATE
NIH direct -Research	18	3
NIH direct - Training	1	0
NIH direct - Fellowship	0	0
NIH subcontract -Research	13	4
NIH subcontract -Clin.Trial	6	3
Other Federal direct -Research	12	5
Other Federal direct -IPA	6	5
Other Federal direct -Clin. Trial	0	0
Other Federal subcontract -Research	3	1
Other Federal subcontract -Training	0	0
ALL FEDERAL	59	21
MD TEDCO direct -Research	3	1
MD TEDCO direct -Fellowship		0
MD TEDCO subcontract -Research	2	0
Corporate - Research	6	4
Corporate - Clin. Trial	0	0
Corporate - Fellowship	3	1
Assoc./Foundation direct -Research	22	4
Assoc./Foundation direct -Fellowship	1	1
Assoc./Foundation direct -Clin. Trial	0	0
Assoc./Foundation direct -IPA	0	0
Assoc./Foundation subcontract -Research	4	3
Hospitals	1	0
Public Universities	0	0
UMD internal seed funding	0	0
ALL NON-FEDERAL	42	14
TOTAL	101	35

Table 5: FY 2017 New Awards Announced (to date)

FY17: New Awards Announced (NGAs received)				
Sponsor	Number of awards	Current year award amounts	Total award amounts over life of the projects	
NIH direct or subcontract	10	\$ 1,916,902	\$	4,116,305
Other Gov. direct and subcontract	11	\$ 1,249,434	\$	4,559,308
Foundation, State, Other Non-profit	9	\$ 638,602	\$	738,602
Corporate	5	\$ 8,456,393	\$	24,827,708
Total	35	\$ 12,261,331	\$	34,241,923

EDUCATION

Strong match with class of interns for FY 2018 from the following programs: Geisinger Commonwealth SOM, Wayne State University SOM, University of Maryland SOM, University of Buffalo, University of Bristol, and the Sidney Kimmel Medical College at Thomas Jefferson.

Incoming Preliminary General Surgery Residents matched from the following programs: Taif University College of Medicine, Avalon University SOM, Melaka-Manipal Medical College, American University of Antigua College of Medicine, Hacettepe Universitesi.

Our graduating FY17 class matched into the following fellowships:

- University of Wisconsin-Vascular Surgery
- Wayne State Detroit Medical –Vascular Surgery
- Roswell Park-Surgical Oncology
- Medical College of Wisconsin-Pediatric Critical Care
- The Ohio State SOM- Thoracic Surgery

Medical Student shelf exam scores of 57th percentile nationally.

SPONSORED LECTURES AND SYMPOSIUMS

- Dr. Daniel Abramson Lectureship Fund – 9/15/16 – William E. Cohn, MD
- The Harry C. Hull Distinguished Lectureship – 10/20/16 – Bryan Clary, MD
- Nicholas & Helen R. Mueller Distinguished Lectureship Fund – 11/3/16 – David Hackam, MD
- Charles Getz Memorial Fund – (Getz Research Retreat) – Ronald DeMatteo, MD – 1/14/17
- Kristin Stueber, MD Plastic Surgery Distinguished Lectureship – R. Barrett Noone, MD – 4/6/17
- Robert Buxton Distinguished Lectureship – Allan Kirk, MD – 6/22/17

FY2017 FACULTY RECRUITMENTS

- The Cardiac Surgery Division added Dr. Kristopher Deatrck. Dr. Deatrck completed his M.D., Surgical Internship and Residency at the University of Michigan Medical School, Ann Arbor, Michigan. After completing his residency, he stayed on at the University of Michigan to complete both a Thoracic Surgery and Pediatric Cardiac Surgery Fellowship. Dr. Deatrck is an Assistant Professor and works closely with Dr. Sanjay Kaushal and is helping to build our Pediatric Cardiac Surgery and Pediatric Heart/Lung Transplant Programs.
- The Cardiac Surgery Division brought back Jhongjun Wu, Ph.D. after a brief tenure at the University of Louisville, Speed School of Engineering. Dr. Wu is the Peter Angelos Distinguished Professor of Surgery in Entrepreneurial Surgical Science who and works closely with Dr. Bart Griffith. He has a joint appointment with the University of Maryland College Park, Clark School of Engineering, Fischell Department of Bioengineering to formulate the surgical bioengineering innovation program. We are happy have Dr. Wu back at the University of Maryland, Department of Surgery.
- The General and Oncologic Surgery Division added Dr. Richelle Williams. Dr. Williams completed her M.D., cum laude at the Harvard Medical School, Boston, Massachusetts. She was an Administrative Chief Resident at the University of Chicago Medical Center, Chicago, Illinois. She then completed her clinical fellowship in complex surgical oncology at the Dana-Farber Cancer Institute, the Brigham and Women's Hospital and the Massachusetts General Hospital all in Boston, Massachusetts.
- The Thoracic Surgery Division added Dr. Gavin Henry. Dr. Henry completed his M.D., Surgical Internship and Residency at the University of Maryland. After completing his residency, he stayed on at the University of Maryland as a Chief Resident in General Surgery, Cardiothoracic Resident in Cardiothoracic Surgery and Administrative Chief Resident in Cardiothoracic Surgery. He was the Section Chief of Thoracic Surgery, the Director of Thoracic Surgical

Oncology and the Program Director of the General Surgery Residency Program at St. Agnes prior to being recruited to join us. We are happy to have Dr. Henry back at the University of Maryland, Department of Surgery. Dr. Henry is building clinical practices at St. Agnes, Mercy, Howard County and the UMMC.

- The Thoracic Surgery Division added Dr. Shelby Stewart. Dr. Stewart completed her M.D. at the University of Michigan Medical School, Ann Arbor, MI. She was a surgical intern and resident at the Albert Einstein Medical Center, Department of Surgery, Philadelphia, PA. She then completed a Cardiothoracic Surgery residency at the Beth Israel Deaconess Medical Center, Department of Surgery, Boston, Massachusetts. She also completed a Clinical Fellowship in Minimally Invasive Thoracic Surgery at the Brigham and Women's Hospital, Department of Surgery, Boston, Massachusetts. Dr. Stewart is building her clinical practice primarily at the UM_St. Joseph Medical Center with the balance at the UMMC.
- The Transplant Surgery Division added Dr. Joseph Scalea. Dr. Scalea completed his M.D., Surgical Internship and Residency at the University of Maryland. After completing his residency, he completed a Post-Doctoral Fellowship at the Transplantation Biology Research Center at the Harvard Medical School, Boston, MA. He then returned to the University of Maryland and completed a General Surgery Residency Program in the Department of Surgery/ Shock Trauma Center as the Executive/ Administrative Chief Resident. Dr. Scalea completed his Transplant Surgery Fellowship at the University of Wisconsin, Madison, Wisconsin prior to joining us. We are happy to have Dr. Scalea back at the University of Maryland, Department of Surgery. Dr. Scalea is the Director of Pancreas and Islet Transplantation and is building our Pancreas Transplant program.
- The Vascular Surgery Division added Dr. Sira Dusan. Dr. Dusan completed her M.D. from Temple University, School of Medicine, Philadelphia, PA. She completed her Categorical General Surgery Residency at the Union Memorial Hospital, Baltimore, MD and our Vascular Surgery Fellowship at the MedStar Georgetown University Hospital/ Washington Hospital Center, Washington, D.C.
- The Program in Trauma added Dr. James Akras, Clinical Assistant Professor, Dr. Tsion Berhane, Assistant Professor, Dr. Michael Grant, Professor, and Dr. Terri Jackson-Niiquaye, Assistant Professor.
- The Department of Surgery also recruited Sudhish Sharma, Ph.D. as a Research Associate working in the Cardiac Surgery Division and Pornima Phatak, Ph.D., as a Research Associate working in the Thoracic Surgery Division.

FY2017 Departures

PHAM	SI	M.D.	Professor	Cardiac Surgery
KESMODEL	SUSAN	M.D.	Asst. Prof.	General & Oncologic
KUNKLER	KEVIN	M.D.	Instructor	General & Oncologic
VARGHESE	SHEELU	Ph.D.	Asst. Prof.	General & Oncologic
ZOU	TONGTONG	M.D.	Instructor	General & Oncologic
BLUEBOND-LANGNER	RACHEL	M.D.	Assoc. Prof.	Plastic Surgery
BERRY	CHERISSE	M.D.	Visiting Inst	Program in Trauma
FANG	RAYMOND	M.D.	Clin Assoc Prof	Program in Trauma
KROSS	MARC	M.D.	Clin Assist Prof	Program in Trauma
CRAWFORD	ROBERT	M.D.	Assoc. Prof.	Vascular Surgery

UMB 2017 Entrepreneur of the YEAR

Bartley P. Griffith, MD

School of Medicine

Thomas E. and Alice Marie Hales Distinguished Professor in Transplant Surgery

Founder, Breethe, Inc.

A world-renowned heart and lung transplant surgeon, Dr. Griffith struggled for decades to develop an artificial lung - one that wouldn't tie patients to a breathing machine in a hospital bed.

After 20 years, he achieved his goal, creating a portable, at-home device for artificial respiration.

To market this technology, which should help hundreds of thousands of patients each year, Dr. Griffith in 2014 worked with UM Ventures, the University of Maryland, Baltimore's commercialization arm, to found the company Breethe, Inc.

Based at the BioPark, Breethe, Inc. is deep into product development, funded to date through three rounds of equity capital with Dr. Griffith playing an active role.

Dr. Griffith, who came to the School of Medicine in 2001, has performed more than 1,250 heart transplants and nearly 700 lung transplants.

In 2010, when he was named UMB's Researcher of the Year, Dr. Griffith was credited with having "the most heavily funded cardiac surgery program in the United States" with \$25 million the previous decade.

In addition to his lung breakthroughs, Griffith was one of the early surgeons to implant a Jarvik heart, and he developed a pediatric heart pump.

Previously chief of cardiac surgery at the School of Medicine, Dr. Griffith recently raised funding to endow a joint chair between the SOM Department of Surgery and the Department of Bioengineering in College Park. The chair helps to create new medical devices.

Baltimore 2016 Best Doctors:

Cardiac Surgery:

Gammie, James M.D.
Taylor, Bradley M.D.
Finney, R.C. Stewart M.D.

Pediatric Cardiac Surgery:

Sunjay Kaushal, M.D.

General and Oncology Surgery:

Alexander, H.Richard M.D. – Surgical Oncology
Bafford, Andrea M.D. – Colorectal Surgery
Fitzpatrick, J. Lawrence, M.D. – General Surgery
Kavic, Stephen M.D. – General Surgery
Kligman, Mark, M.D. – Bariatric Surgery

Pediatric Surgery:

Moore, James M.D.
Strauch, Eric M.D.
Voigt, Roger M.D.

Pediatric Surgery - Urology

Lumpkins, Kimberly M.D.
Voigt, Roger M.D.

Plastic Surgery- Breast:

Slezak, Sheri M.D.

Transplant: Kidney, Pancreas, Liver:

Barth, Rolf M.D.
Bartlett, Stephen M.D.
Hanish, Steven M.D.
Lamattina, John M.D.
Schweitzer, Eugene M.D.

Trauma:

Scalea, Thomas M.D.
Stein, Deborah M.D.

Urology:

Kramer, Andrew M.D.

Phelan, Michael M.D.

Vascular Surgery:

Sarkar, Rajabrata M.D.

NEWS ARTICLES

Several news stories featured the Department of Surgery during fiscal year 2017. Inserted below are a sample of some prominent articles.

A Baltimore Sun story quoting Dr. David Leeser (UMMC / School of Medicine) and Dean Reece highlighting a [revolutionary kidney transplant procedure.](#), June 27, 2016

A Baltimore Sun story highlighting [former UMMS liver transplant patient Gavin Class](#) who fulfills his desire to compete by participating in the Transplant Games., August 24, 2016

[“Novel device for mitral device repair shows success in human study”](#), [News Medical Life Sciences](#), July 19, 2016

[“New tool for mitral valve repair shows success in first human clinical trial”](#), [Healthcare Business](#), July 19, 2016

[UM SOM; UMMC; Dr. Jonathan Bromberg](#): Organ donation on the rise as fatal drug overdoses mount >[Baltimore Sun](#) - Aug 13, 2016

Dr. Jonathan Bromberg (School of Medicine) is quoted in [Science Daily coverage](#) of new research on autoimmune diseases such as multiple sclerosis., September 16, 2016

Dr. Minhaj Siddiqui (School of Medicine & UMMC) is interviewed in this [WBAL-TV story](#) highlighting a patient who underwent an MRI-guided biopsy., October 4, 2016

Dr. Emily Bellavance (School of Medicine & UMMC) is quoted in a [Reuters story](#) about a study examining the age of women and complications related to breast reconstruction procedures., November 9, 2016

Dr. Zachary Kon (UMMC) is quoted in this [MedPage Today](#) story about the ex vivo lung perfusion procedure., November 23, 2016

The [Daily Record highlighted](#) Dr. Joseph R. Scalea, who has received the American Surgical Association Foundation Fellowship. November 13, 2016

Dr. Joseph S. Friedberg (School of Medicine /UMMC) is lead author of a new study showing that lung-sparing surgery for patients with advanced mesothelioma results in prolonged survival. The news release is posted Newswise, December 14, 2016 [here](#).

This [Associated Press coverage](#) highlights a groundbreaking stem cell clinical trial for babies born with certain birth defects being led by the University of Maryland's Dr. Sunjay Kaushal. The joint UMMC/School of Medicine news release is posted [here](#). The story is featured in STAT news, which is viewed by thousands of medical professionals daily, and is a [featured link in their On-Call newsletter](#). Additional coverage via AP is included in more than 100 media outlets today nationwide, including [KABC-TV](#), the [Miami Herald](#), the [Houston Chronicle](#), the [Washington Times](#), [WBAL Radio](#), [FOX-45](#) and [Newswise](#)., December 20, 2016

Dr. Joseph Friedberg (School of Medicine & UMMC) is quoted in this [HealthDay story](#) highlighting a study that shows the benefits of lung-sparing surgery for mesothelioma patients. December 23, 2016

Transplant surgeon Dr. Rolf Barth, a living liver donor and recipient were featured in numerous media over the holidays including [Fox 45](#), [WMAR-TV](#), the [Baltimore Sun](#) and [Capital Gazette](#). December 25, 2016

Dr. Rolf Barth (SOM / UMMC) was interviewed for this [WMAR-ABC2 story](#) on organ donations and overdose victims. January 18, 2017

Dr. Joseph S. Friedberg (SOM & UMMC) is quoted in [Oncology Times](#) about a study he authored that showed patients receiving Multi-Modal Mesothelioma Treatment had better survival results. January 25, 2017

Dr. Joseph Friedberg (UMMC / UMGCCC / SOM) was interviewed remotely for this [WMDT story](#) highlighting a new telemedicine initiative between the University of Maryland Medical Center and Atlantic General Hospital. The [news release is here](#). May 8, 2017

Dr. Stephen Bartlett (UMMS) is quoted in [Capital Gazette / Baltimore Sun coverage](#) of Maryland House Speaker Mike Busch's liver transplant surgery from a living donor. Speaker Busch, who is also a UMMS Board member, is receiving care at UMMC. June 2, 2017

Dr. Cherif Boutros (SOM/UMBWMC/UMCMG) was interviewed on [WMAR-TV](#) about a new clinical trial for pancreatic cancer at BWMC's Tate Cancer Center. June 6, 2017

Cison PR Newswire – University of Maryland Medicine Established Nation's First Center of Cardiac Xenotransplantation Research with \$24 Million Grant and Addition of Tope Transplant Surgeon-Scientists, August 3, 2017

The Department of Surgery enters FY 2018 with a strong, efficient and expanding faculty, demonstrated excellence in educational, research and clinical arenas, and with solid partnerships with our School, our Campus and a rapidly expanding Medical System.

We have added four promising faculty for FY2018:

- Dr. David Kaczorowski will join us in the Division of Cardiac Surgery
- Dr. Hope Jackson will join us in the Division of General and Oncologic Surgery
- Dr. Samuel Sultan will join us in the Division of Transplant Surgery
- Dr. John Karwowski will join us in the Division of Vascular Surgery

Our Strategic Plan for FY2018 is as follows:

- Continue to align with UMMC on hospital intensive programs; Cardiac, Transplant, Thoracic, Vascular & Oncologic Surgery to increase market share
- Continue to expand service locations throughout Maryland, moving services to Southern Maryland and the VA/DC borders
- Add new provider contracts with Capital Regional Medical Center
- Rollout the revised Cost Saving Initiative (CSI) Plan
- Build the new Xenotransplantation Research Program and prepare for the renovation and design of the new research operating rooms
- Increase NIH submissions

Listed below on pages 18 - 67 are 2016/2017 Publications sorted by source title

PUBLICATIONS 2016/2017: (sorted by Source Title)

Authors	Title	Year	Source title	Volume	Issue
Williams B., Mazzeffi M.A., Sanchez P.G., Pham S.M., Kon Z., Tanaka K.A.	Case Report of Severe Antithrombin Deficiency During Extracorporeal Membrane Oxygenation and Therapeutic Plasma Exchange for Double Lung Transplantation	2017	A & A case reports	8	1
Henderson R., Chow R., Morales R., Taylor B., Mazzeffi M.A.	Removal of an Entrapped Lumbar Drain After Thoracic Endovascular Aortic Repair	2016	A & A case reports	7	4
Wang A., Grayburn P., Foster J.A., McCulloch M.L., Badhwar V., Gammie J.S., Costa S.P., Benitez R.M., Rinaldi M.J., Thourani V.H., Martin R.P.	Practice gaps in the care of mitral valve regurgitation: Insights from the American College of Cardiology mitral regurgitation gap analysis and advisory panel	2016	American Heart Journal	172	
Richert M.E., Hosier H., Weltz A.S., Wise E.S., Joshi M., Diaz J.J.	Acute transverse myelitis associated with salmonella bacteremia: A case report	2016	American Journal of Case Reports	17	
Kesmodel S.B., Goloubeva O.G., Rosenblatt P.Y., Heiss B., Bellavance E.C., Chumsri S., Bao T., Thompson J., Nightingale G., Tait N.S., Nichols E.M., Feigenberg S.J., Tkaczuk K.H.	Patient-reported Adherence to Adjuvant Aromatase Inhibitor Therapy Using the Morisky Medication Adherence Scale: An Evaluation of Predictors	2016	American Journal of Clinical Oncology: Cancer Clinical Trials		
Kim G.J., Koshy M., Hanlon A.L., Naomi Horiba M., Edelman M.J., Burrows W.M.,	The benefit of chemotherapy in esophageal cancer patients with residual	2016	American Journal of Clinical Oncology: Cancer Clinical Trials	39	2

Battafarano R.J., Suntharalingam M.	disease after trimodality therapy				
Wang P.-Y., Wang S.R., Xiao L., Chen J., Wang J.-Y., Rao J.N.	c-Jun enhances intestinal epithelial restitution after wounding by increasing phospholipase C- γ 1 transcription	2017	American Journal of Physiology - Cell Physiology	312	4
Xu Y., Chen J., Xiao L., Chung H.K., Zhang Y., Robinson J.C., Rao J.N., Wang J.-Y.	Transcriptional regulation of importin- α 1 by JunD modulates subcellular localization of RNA-binding protein HuR in intestinal epithelial cells	2016	American Journal of Physiology - Cell Physiology	311	6
Wehman B., Sharma S., Pietris N., Mishra R., Siddiqui O.T., Bigham G., Li T., Aiello E., Murthi S., Pittenger M., Griffith B., Kaushal S.	Mesenchymal stem cells preserve neonatal right ventricular function in a porcine model of pressure overload	2016	American Journal of Physiology - Heart and Circulatory Physiology	310	11
Mascarenhas D., Dreizin D., Bodanapally U.K., Stein D.M.	Parsing the utility of CT and MRI in the Subaxial Cervical Spine Injury Classification (SLIC) System: Is CT SLIC enough?	2016	American Journal of Roentgenology	206	6
Husson J., Stafford K., Bromberg J., Haririan A., Sparkes T., Davis C., Redfield R., Amoroso A.	Association Between Duration of Human Immunodeficiency Virus (HIV)-1 Viral Suppression Prior to Renal Transplantation and Acute Cellular Rejection	2017	American Journal of Transplantation	17	2
Flechner S.M., Leaser D., Pelletier R., Morgieovich M., Miller K., Thompson L., McGuire S., Sinacore J., Hil G.	"do the Right Thing. It Will Gratify Some People and Astonish the Rest." - M. Twain	2016	American Journal of Transplantation	16	3
Wise E.S., Wergin J.E., Mace E.H., Kallos J.A.,	Upper extremity pulse pressure predicts amputation-free survival	2017	American Surgeon	83	7

Muhlestein W.E., Shelburne N.J., Hocking K.M., Brophy C.M., Guzman R.J.	after lower extremity bypass				
Wise E.S., Gadomski S.P., Ilg A.M., Bermudez C., Chan E.W., Izmaylov M.L., Gridley S.J., Kaczmarek J.V., Melancon S.N.T., Ahmad S., Hocking K.M., Diaz J.J., Kavic S.M.	Independent preoperative predictors of prolonged length of stay after laparoscopic appendectomy in patients over 30 years of age: Experience from a single institution	2016	American Surgeon	82	11
Mazzeffi M., Strauss E., Rabin J., Griffith B.	Blunt Traumatic Injury to the Aortic Root and Aortic Valve	2017	Anesthesia and Analgesia		
Williams B., Wehman B., Mazzeffi M.A., Odonkor P., Harris R.L., Kon Z., Tanaka K.A.	Acute Intracardiac Thrombosis and Pulmonary Thromboembolism After Cardiopulmonary Bypass: A Systematic Review of Reported Cases	2017	Anesthesia and Analgesia		
Lal B.K., Meschia J.F., Howard G., Brott T.G.	Carotid Stenting Versus Carotid Endarterectomy: What Did the Carotid Revascularization Endarterectomy Versus Stenting Trial Show and Where Do We Go from Here?	2017	Angiology	68	8
Hollis A., Lowery A., Pajoumand M., Pham S., Slejko J., Tanaka K., Mazzeffi M.	Impact on postoperative bleeding and cost of recombinant activated factor VII in patients undergoing heart transplantation	2016	Annals of Cardiac Anaesthesia	19	3
Saad N.H., Pontell M.E., Winters B.S., Daniel J., Saad A.	The Periosteal Medial Femoral Condyle Free Flap: A New Option for Soft Tissue Reconstruction of the Distal Lower Extremity	2017	Annals of Plastic Surgery		

Singh D.P., Bluebond-Langner R., Chopra K., Gowda A.U.	Transverse Infraclavicular Approach to the Thoracoacromial Pedicle for Microsurgical Breast Reconstruction	2017	Annals of Plastic Surgery	78	3
Gowda A.U., Chopra K., Brown E.N., Slezak S., Rasko Y.	Preventing breast implant contamination in breast reconstruction: A national survey of current practice	2017	Annals of Plastic Surgery	78	2
Chopra K., Gowda A.U., McNichols C.H.L., Brown E.N., Slezak S., Rasko Y.	Antimicrobial prophylaxis practice patterns in breast augmentation a national survey of current practice	2017	Annals of Plastic Surgery	78	6
Cai S.S., Chopra K., Lifchez S.D.	Management of mycobacterium abscessus infection after medical tourism in cosmetic surgery and a review of literature	2016	Annals of Plastic Surgery	77	6
Gowda A.U., McNichols C.H.L., Asokan I., Matthews J.A., Buckingham E.B., Sabino J., Maddox J.S., Slezak S., Rasko Y., Singh D.P.	Porcine acellular dermal matrix for hernia repair in transplant patients	2016	Annals of Plastic Surgery	77	6
Lopez J., Juan I., Wu A., Samaha G., Cho B., Luck J.D., Soni A., Milton J., May J.W., Tufaro A.P., Dorafshar A.H.	The Impact of Financial Conflicts of Interest in Plastic Surgery	2016	Annals of Plastic Surgery	77	2
Towe C.W., Gulack B.C., Kim S., Ho V.P., Perry Y., Donahue J.M., Linden P.A.	Restrictive Transfusion Practices After Esophagectomy Are Associated With Improved Outcome: A Review of the Society of Thoracic Surgeons General Thoracic Database	2017	Annals of Surgery		

Macarios D., Silverman R.P.	Questions Regarding Statistical Inferences, Quality of Life, and Conclusions From the COBRA Study	2016	Annals of Surgery		
Sanchez P.G., Pasrija C., Mulligan M.J., Wadhwa M., Pratt D.L., Li T., Gammie J.S., Kon Z.N., Pham S.M., Griffith B.P.	A Novel Large Animal Model of Acute Respiratory Distress Syndrome Induced by Mitochondrial Products	2016	Annals of Surgery		
Salazar J.H., Goldstein S.D., Yang J., Gause C., Swarup A., Hsiung G.E., Rangel S.J., Goldin A.B., Abdullah F.	Regionalization of pediatric surgery trends already underway	2016	Annals of Surgery	263	6
Hessler L.K., Molitoris J.K., Rosenblatt P.Y., Bellavance E.C., Nichols E.M., Tkaczuk K.H.R., Feigenberg S.J., Bentzen S.M., Kesmodel S.B.	Factors Influencing Management and Outcome in Patients with Occult Breast Cancer with Axillary Lymph Node Involvement: Analysis of the National Cancer Database	2017	Annals of Surgical Oncology		
Li Y.C., Khashab T., Terhune J., Eckert R.L., Hanna N., Burke A., Richard Alexander H.	Preoperative Thrombocytosis Predicts Shortened Survival in Patients with Malignant Peritoneal Mesothelioma Undergoing Operative Cytoreduction and Hyperthermic Intraperitoneal Chemotherapy	2017	Annals of Surgical Oncology	24	8
Bellavance E., Peppercorn J., Kronsberg S., Greenup R., Keune J., Lynch J., Collyar D., Magder L., Tilburt J., Hlubocky F., Yao K.	Surgeons' Perspectives of Contralateral Prophylactic Mastectomy	2016	Annals of Surgical Oncology	23	9

Turaga K.K., Gamblin T.C., Alexander H.R., Edwards R., Bartlett D.L.	Regional Therapies for Advanced Cancer: Update for 2016	2016	Annals of Surgical Oncology	23	5
Miele C.H., Schwab K., Saggar R., Duffy E., Elashoff D., Tseng C.-H., Weigt S., Charan D., Abtin F., Johannes J., Derhovannessian A., Conklin J., Ghassemi K., Khanna D., Siddiqui O., Ardehali A., Hunter C., Kwon M., Biniwale R., Lo M., Volkmann E., Barba D.T., Belperio J.A., Sayah D., Mahrer T., Furst D.E., Kafaja S., Clements P., Shino M., Gregson A., Kubak B., Lynch J.P., Ross D., Saggar R.	Lung transplant outcomes in systemic sclerosis with significant esophageal dysfunction: A comprehensive single- center experience	2016	Annals of the American Thoracic Society	13	6
Kon Z.N., Bittle G.J., Pasrija C., Pham S.M., Mazzeffi M.A., Herr D.L., Sanchez P.G., Griffith B.P.	Venovenous Versus Venoarterial Extracorporeal Membrane Oxygenation for Adult Patients With Acute Respiratory Distress Syndrome Requiring Precannulation Hemodynamic Support: A Review of the ELSO Registry	2017	Annals of Thoracic Surgery	104	2
Evans C.F., Sorkin J.D., Abraham D.S., Wehman B., Kaushal S., Rosenthal G.L.	Interstage Weight Gain Is Associated With Survival After First- Stage Single-Ventricle Palliation	2017	Annals of Thoracic Surgery	104	2

Mazzeffi M.A., Chriss E., Davis K., Zhan M., Harris A., Rock P., Gammie J.S., Tanaka K.	Optimal Plasma Transfusion in Patients Undergoing Cardiac Operations With Massive Transfusion	2017	Annals of Thoracic Surgery	104	1
Kon Z.N., Bittle G.J., Pasrija C., Sanchez P.G., Griffith B.P., Pierson R.N., III	The Optimal Procedure for Retransplantation After Single Lung Transplantation	2017	Annals of Thoracic Surgery	104	1
Rabin J., Meyenburg T., Lowery A.V., Rouse M., Gammie J.S., Herr D.	Restricted Albumin Utilization Is Safe and Cost Effective in a Cardiac Surgery Intensive Care Unit	2017	Annals of Thoracic Surgery	104	1
Rankin J.S., Badhwar V., He X., Jacobs J.P., Gammie J.S., Furnary A.P., Fazzalari F.L., Han J., O'Brien S.M., Shahian D.M.	The Society of Thoracic Surgeons Mitral Valve Repair/Replacement Plus Coronary Artery Bypass Grafting Composite Score: A Report of The Society of Thoracic Surgeons Quality Measurement Task Force	2017	Annals of Thoracic Surgery	103	5
Mazzeffi M., Gammie J., Taylor B., Cardillo S., Haldane-Lutterodt N., Amoroso A., Harris A., Thom K.	Healthcare-Associated Infections in Cardiac Surgery Patients With Prolonged Intensive Care Unit Stay	2017	Annals of Thoracic Surgery	103	4
Friedberg J.S., Simone C.B., II, Culligan M.J., Barsky A.R., Doucette A., McNulty S., Hahn S.M., Alley E., Serman D.H., Glatstein E., Cengel K.A.	Extended Pleurectomy- Decortication-Based Treatment for Advanced Stage Epithelial Mesothelioma Yielding a Median Survival of Nearly Three Years	2017	Annals of Thoracic Surgery	103	3
Badhwar V., Rankin J.S., He M., Jacobs J.P., Furnary A.P., Fazzalari F.L., O'Brien S.,	Performing Concomitant Tricuspid Valve Repair at the Time of Mitral Valve Operations Is Not Associated With	2017	Annals of Thoracic Surgery	103	2

Gammie J.S., Shahian D.M.	Increased Operative Mortality				
Wehman B., Pietris N., Bigham G., Siddiqui O., Mishra R., Li T., Aiello E., Jack G., Wang W., Murthi S., Sharma S., Kaushal S.	Cardiac Progenitor Cells Enhance Neonatal Right Ventricular Function After Pulmonary Artery Banding	2017	Annals of Thoracic Surgery		
Magruder J.T., Blasco-Colmenares E., Crawford T., Alejo D., Conte J.V., Salenger R., Fonner C.E., Kwon C.C., Bobbitt J., Brown J.M., Nelson M.G., Horvath K.A., Whitman G.R.	Variation in Red Blood Cell Transfusion Practices During Cardiac Operations Among Centers in Maryland: Results From a State Quality-Improvement Collaborative	2017	Annals of Thoracic Surgery	103	1
Li T., Wei X., Evans C.F., Sanchez P.G., Li S., Wu Z.J., Griffith B.P.	Left Ventricular Unloading After Acute Myocardial Infarction Reduces MMP/JNK Associated Apoptosis and Promotes FAK Cell- Survival Signaling	2016	Annals of Thoracic Surgery	102	6
Salenger R., Diao X., Dawood M.Y., Herr D.L., Sample G.A., Pichard A., Gammie J.S.	Percutaneous Rescue for Critical Mitral Stenosis Late After Mitral Valve Repair	2016	Annals of Thoracic Surgery	102	5
Maghami S., Ghoreishi M., Foster N., Dawood M.Y., Hobbs G.R., Stafford P., Adawal D., Mohammed I., Zandee van Rilland E.D., Diao X.Y., Walterhoefer M., Taylor B.S., Griffith B.P., Gammie J.S.	Undersized Rigid Nonplanar Annuloplasty: The Key to Effective and Durable Repair of Functional Tricuspid Regurgitation	2016	Annals of Thoracic Surgery	102	3

McLenon M., Bittle G.J., Jones K., Menaker J., Pham S.M., Iacono A.T., Sachdeva A., Rajagopal K.	Extracorporeal Lung Support as a Bridge to Airway Stenting and Radiotherapy for Airway-Obstructing Pancoast Tumor	2016	Annals of Thoracic Surgery	102	1
Whellan D.J., McCarey M.M., Taylor B.S., Rosengart T.K., Wallace A.S., Shroyer A.L.W., Gammie J.S., Peterson E.D.	Trends in Robotic- Assisted Coronary Artery Bypass Grafts: A Study of the Society of Thoracic Surgeons Adult Cardiac Surgery Database, 2006 to 2012	2016	Annals of Thoracic Surgery	102	1
Evans C.F., Gammie J.S.	Invited Commentary	2016	Annals of Thoracic Surgery	101	6
Wehman B., Stafford K.A., Bittle G.J., Kon Z.N., Evans C.F., Rajagopal K., Pietris N., Kaushal S., Griffith B.P.	Modern Outcomes of Mechanical Circulatory Support as a Bridge to Pediatric Heart Transplantation	2016	Annals of Thoracic Surgery	101	6
Kon Z.N., Pasrija C., Shah A., Griffith B.P., Garcia J.P.	Venovenous extracorporeal membrane oxygenation with atrial septostomy as a bridge to lung transplantation	2016	Annals of Thoracic Surgery	101	3
Mazzeffi M., Greenwood J., Tanaka K., Menaker J., Rector R., Herr D., Kon Z., Lee J., Griffith B., Rajagopal K., Pham S.	Bleeding, Transfusion, and Mortality on Extracorporeal Life Support: ECLS Working Group on Thrombosis and Hemostasis	2016	Annals of Thoracic Surgery	101	2
Harris D.G., Huffner M.E., Croal-Abrahams L., DiChiacchio L., Farivar B.S., Ayers J.D., Toursavadkahi S., Rabin J., Crawford R.S.	Thoracic Endovascular Repair of Blunt Thoracic Aortic Injury in the Setting of an Aberrant Right Subclavian Artery	2017	Annals of Vascular Surgery	42	
Hansraj N., Hamdi A., Wise E.S.,	Open and Endovascular Management of Inferior	2017	Annals of Vascular Surgery		

DiChiacchio L., Sarkar R., Toursavadkahi S.	Mesenteric Artery Aneurysms: A Report of Two Cases				
June A.S., Harris D.G., Yoo C., Garrido D., Toursavadkahi S., Sarkar R., Crawford R.S.	Percutaneous Treatment of Multiple Recurrent Thromboembolization from a Descending Thoracic Aortic Intimal Sarcoma	2017	Annals of Vascular Surgery	38	
Harris D.G., Rabin J., Bhardwaj A., June A.S., Oates C.P., Garrido D., Toursavadkahi S., Khoynzhad A., Crawford R.S.	Nonoperative Management of Traumatic Aortic Pseudoaneurysms	2016	Annals of Vascular Surgery	35	
Flohr T.R., Hagspiel K.D., Jain A., Tracci M.C., Kern J.A., Kron I.L., Cherry K.J., Upchurch G.R., Jr.	The History of Incidentally Discovered Penetrating Aortic Ulcers of the Abdominal Aorta	2016	Annals of Vascular Surgery	31	
Strickland D.K., Muratoglu S.C.	LRP in Endothelial Cells: A Little Goes a Long Way	2016	Arteriosclerosis, Thrombosis, and Vascular Biology	36	2
Wei X., Sanchez P.G., Liu Y., Claire Watkins A., Li T., Griffith B.P., Wu Z.J.	Extracorporeal Respiratory Support With a Miniature Integrated Pediatric Pump-Lung Device in an Acute Ovine Respiratory Failure Model	2016	Artificial Organs	40	11
Mondal N.K., Sorensen E.N., Pham S.M., Koenig S.C., Griffith B.P., Slaughter M.S., Wu Z.J.	Systemic Inflammatory Response Syndrome in End-Stage Heart Failure Patients Following Continuous-Flow Left Ventricular Assist Device Implantation: Differences in Plasma Redox Status and Leukocyte Activation	2016	Artificial Organs	40	5
Church J.T., Alghanem F., Deatrick K.B., Trahanas J.M.,	Normothermic Ex-Vivo Heart Perfusion: Effects of Live Animal Blood	2017	ASAIO Journal		

Phillips J.P., Song M.H., Perkins E.M., Bartlett R.H., Rojas-Pena A., Bocks M.L., Owens G.E.	and Plasma Cross-Circulation				
Menaker J., Tabatabai A., Rector R., Dolly K., Kufera J., Lee E., Kon Z., Sanchez P., Pham S., Herr D.L., Mazzeffi M., Rabinowitz R.P., O'Connor J.V., Stein D.M., Scalea T.M.	Incidence of cannula associated deep vein thrombosis after venovenous ECMO	2017	ASAIO Journal		
Mondal N.K., Sobieski M.A., Pham S.M., Griffith B.P., Koenig S.C., Slaughter M.S., Wu Z.J.	Infection, Oxidative Stress, and Changes in Circulating Regulatory T Cells of Heart Failure Patients Supported by Continuous-Flow Ventricular Assist Devices	2017	ASAIO Journal	63	2
Yang P., Yang W.W., Chen X., Kaushal S., Dong D., Shen W.-B.	Maternal diabetes and high glucose in vitro trigger Sc α 1+ cardiac progenitor cell apoptosis through FoxO3a	2017	Biochemical and Biophysical Research Communications	482	4
Noyes N.C., Hampton B., Migliorini M., Strickland D.K.	Regulation of Itch and Nedd4 E3 Ligase Activity and Degradation by LRAD3	2016	Biochemistry	55	8
Mukhopadhyay S., Antalis T.M., Nguyen K.P., Hoofnagle M.H., Sarkar R.	Myeloid p53 regulates macrophage polarization and venous thrombus resolution by inflammatory vascular remodeling in mice	2017	Blood	129	24
Rutenberg M.S., Meister M., Amin P.P., Hussain A., Naslund M.J., Kwok Y.	Salvage external beam radiotherapy for locally recurrent prostate cancer after definitive brachytherapy	2016	Brachytherapy	15	6
Hersh D.S., Nguyen B.A.,	Pulsed ultrasound expands the extracellular	2016	Brain Research	1646	

Dancy J.G., Adapa A.R., Winkles J.A., Woodworth G.F., Kim A.J., Frenkel V.	and perivascular spaces of the brain				
Diwanji T.P., Molitoris J.K., Chhabra A.M., Snider J.W., Bentzen S.M., Tkaczuk K.H., Rosenblatt P.Y., Kesmodel S.B., Bellavance E.C., Cohen R.J., Cheston S.B., Nichols E.M., Feigenberg S.J.	Utilization of hypofractionated whole-breast radiation therapy in patients receiving chemotherapy: a National Cancer Database analysis	2017	Breast Cancer Research and Treatment	165	2
Goncalves R., DeSchryver K., Ma C., Tao Y., Hoog J., Cheang M., Crouch E., Dahiya N., Sanati S., Barnes M., Sarian L.O.Z., Olson J., Allred D.C., Ellis M.J.	Development of a Ki-67-based clinical trial assay for neoadjuvant endocrine therapy response monitoring in breast cancer	2017	Breast Cancer Research and Treatment	165	2
Asare E.A., Compton C.C., Hanna N.N., Kosinski L.A., Washington M.K., Kakar S., Weiser M.R., Overman M.J.	The impact of stage, grade, and mucinous histology on the efficacy of systemic chemotherapy in adenocarcinomas of the appendix: Analysis of the National Cancer Data Base	2016	Cancer	122	2
Katz S.C., Point G.R., Cunetta M., Thorn M., Guha P., Espat N.J., Boutros C., Hanna N., Junghans R.P.	Regional CAR-T cell infusions for peritoneal carcinomatosis are superior to systemic delivery	2016	Cancer Gene Therapy	23	5
Prueitt R.L., Wallace T.A., Glynn S.A., Yi M., Tang W., Luo J., Dorsey T.H.,	An immune-inflammation gene expression signature in prostate tumors of smokers	2016	Cancer Research	76	5

Stagliano K.E., Gillespie J.W., Hudson R.S., Terunuma A., Shoe J.L., Haines D.C., Yfantis H.G., Han M., Martin D.N., Jordan S.V., Borin J.F., Naslund M.J., Alexander R.B., Stephens R.M., Loffredo C.A., Lee D.H., Putluri N., Sreekumar A., Hurwitz A.A., Ambs S.					
Aicher B.O., Frishman W.H.	Electronic cigarettes	2016	Cardiology in Review	24	6
Tostanoski L.H., Chiu Y.-C., Gammon J.M., Simon T., Andorko J.I., Bromberg J.S., Jewell C.M.	Reprogramming the Local Lymph Node Microenvironment Promotes Tolerance that Is Systemic and Antigen Specific	2016	Cell Reports	16	11
Li Y., Gao Y., Cui T., Yang T., Liu L., Li T., Chen J.	Retinoic Acid Facilitates Toll-Like Receptor 4 Expression to Improve Intestinal Barrier Function through Retinoic Acid Receptor Beta	2017	Cellular Physiology and Biochemistry		
Schwann T.A., Habib R.H., Suri R.M., Brennan J.M., He X., Thourani V.H., Engoren M., Ailawadi G., Englum B.R., Bonnell M.R., Gammie J.S.	Variation in Warfarin Use at Hospital Discharge After Isolated Bioprosthetic Mitral Valve Replacement: An Analysis of the Society of Thoracic Surgeons Adult Cardiac Surgery Database	2016	Chest	150	3
Gammie J.S., Wilson P., Bartus K., Gackowski A., Hung J., D'Ambra M.N., Kolsut P., Bittle G.J., Szymanski P.,	Response by Gammie et al to Letter Regarding Article, "transapical Beating-Heart Mitral Valve Repair with an Expanded Polytetrafluoroethylene	2017	Circulation	135	3

Sadowski J., Kapelak B., Bilewska A., Kusmierczyk M., Ghoreishi M.	Cordal Implantation Device: Initial Clinical Experience				
Gammie J.S., Wilson P., Bartus K., Gackowski A., Hung J., D'Ambra M.N., Kolsut P., Bittle G.J., Szymanski P., Sadowski J., Kapelak B., Bilewska A., Kusmierczyk M., Ghoreishi M.	Transapical beating- heart mitral valve repair with an expanded polytetrafluoroethylene cordal implantation device	2016	Circulation	134	3
Bittle G.J., Wehman B., Karathanasis S.K., Kaushal S.	Clinical progress in cell therapy for single ventricle congenital heart disease	2017	Circulation Research	120	7
Sharma S., Mishra R., Bigham G.E., Wehman B., Khan M.M., Xu H., Saha P., Goo Y.A., Datla S.R., Chen L., Tulapurkar M.E., Taylor B.S., Yang P., Karathanasis S., Goodlett D.R., Kaushal S.	A Deep Proteome Analysis Identifies the Complete Secretome as the Functional Unit of Human Cardiac Progenitor Cells	2017	Circulation Research	120	5
Prasad N.K., Howe B.M., Maus T.P., Moran S.L., Spinner R.J.	Could congenital infiltrating lipomatosis of the face have an anatomic explanation: Lipomatosis of the trigeminal nerve and nerve-territory overgrowth?	2017	Clinical Anatomy	30	5
Sterman D.H., Alley E., Stevenson J.P., Friedberg J., Metzger S., Recio A., Moon E.K., Haas A.R.,	Pilot and feasibility trial evaluating immuno-gene therapy of malignant mesothelioma using intrapleural delivery of adenovirus-IFNa	2016	Clinical Cancer Research	22	15

Vachani A., Katz S.I., Sun J., Heitjan D.F., Hwang W.-T., Litzky L., Yearley J.H., Tan K.S., Papasavvas E., Kennedy P., Montaner L.J., Cengel K.A., Ii C.B.S., Culligan M., Langer C.J., Albelda S.M.	combined with chemotherapy				
Waryah A.M., Shahzad M., Shaikh H., Sheikh S.A., Channa N.A., Hufnagel R.B., Makhdoom A., Riazuddin S., Ahmed Z.M.	A novel CHST3 allele associated with spondyloepiphyseal dysplasia and hearing loss in Pakistani kindred	2016	Clinical Genetics	90	1
Kim W., Courtier J., Morin C., Shet N., Strauch E., Kim J.S.	Postnatal MRI for CDH: A pictorial review of late-presenting and recurrent diaphragmatic defects	2017	Clinical Imaging	43	
Scalea J.R., Hickman J.B., Moore D.J., Brayman K.L.	An overview of the necessary thymic contributions to tolerance in transplantation	2016	Clinical Immunology	173	
Nascone J.W., O'Toole R.V.	Editorial Comment: Current Issues in Orthopaedic Trauma: Tribute to Clifford H. Turen	2016	Clinical Orthopaedics and Related Research	474	6
Greenan G., Ahmad S.B., Anders M.G., Leeser A., Bromberg J.S., Niederhaus S.V.	Recreational marijuana use is not associated with worse outcomes after renal transplantation	2016	Clinical Transplantation	30	10
Ahmad S.B., Miller M., Hanish S., Bartlett S.T., Hutson W., Barth R.N., LaMattina J.C.	Sequential kidney–liver transplantation from the same living donor for lecithin cholesterol acyl transferase deficiency	2016	Clinical Transplantation	30	10

Murphy K.G., Polack M.A., Arzadon J.M., Hickerson R.D., Scheyer E.T.	A Report of Three Cases from an Ongoing Prospective Clinical Study on a Novel Pink Biomimetic Implant System	2016	Compendium of continuing education in dentistry (Jamesburg, N.J. : 1995)	37	2
Diaz J.J., Efron D.T.	Complications in acute care surgery: The management of difficult clinical scenarios	2016	Complications in Acute Care Surgery: The Management of Difficult Clinical Scenarios		
Narayan M., Diaz J.J.	Acute necrotizing pancreatitis	2016	Complications in Acute Care Surgery: The Management of Difficult Clinical Scenarios		
Adams C.A., Jr., Cioffi W.G., Valdez C., Diaz J.J.	Perforated peptic ulcer and the dislodged PEG	2016	Complications in Acute Care Surgery: The Management of Difficult Clinical Scenarios		
Chen Z., Zhan F., Ding J., Zhang X., Deng X.	A new stent with streamlined cross-section can suppress monocyte cell adhesion in the flow disturbance zones of the endovascular stent	2016	Computer Methods in Biomechanics and Biomedical Engineering	19	1
Slack D.F., Corwin D.S., Shah N.G., Shanholtz C.B., Vercelles A.C., Netzer G., Jones K.M., Brown C.H., Terrin M.L., Hasday J.D.	Pilot Feasibility Study of Therapeutic Hypothermia for Moderate to Severe Acute Respiratory Distress Syndrome	2017	Critical Care Medicine	45	7
Tisherman S.A.	Targeted oxygen and temperature management during hemorrhagic shock: Is it all in the timing?	2016	Critical Care Medicine	44	5
Sanses T.V., Kudish B., Guralnik J.M.	The Relationship Between Urinary Incontinence, Mobility Limitations, and Disability in Older Women	2017	Current Geriatrics Reports	6	2

Ahmad S., Bromberg J.S.	Current status of the microbiome in renal transplantation	2016	Current Opinion in Nephrology and Hypertension	25	6
Twum-Ampofo J., Fu D.-X., Passaniti A., Hussaind A., Siddiqui M.M.	Metabolic targets for potential prostate cancer therapeutics	2016	Current Opinion in Oncology	28	3
Sanchez P.G., Mackowick K.M., Kon Z.N.	Current state of ex-vivo lung perfusion	2016	Current Opinion in Organ Transplantation	21	3
Laird C., Burdorf L., Pierson R.N., III	Lung xenotransplantation: A review	2016	Current Opinion in Organ Transplantation	21	3
Hersh D.S., Wadajkar A.S., Roberts N.B., Perez J.G., Connolly N.P., Frenkel V., Winkles J.A., Woodworth G.F., Kim A.J.	Evolving drug delivery strategies to overcome the blood brain barrier	2016	Current Pharmaceutical Design	22	9
Deng X., Wu D.K.	Temporal coupling between specifications of neuronal and macular fates of the inner ear	2016	Developmental Biology	414	1
Gu H., Yu J., Dong D., Zhou Q., Wang J.-Y., Fang S., Yang P.	High glucose-repressed CITED2 expression through miR-200b triggers the unfolded protein response and endoplasmic reticulum stress	2016	Diabetes	65	1
Bafford A.C., Latushko A., Hansraj N., Jambaulikar G., Ghazi L.J.	The Use of Temporary Fecal Diversion in Colonic and Perianal Crohn's Disease Does Not Improve Outcomes	2017	Digestive Diseases and Sciences	62	8
Fong K.S.K., Hufnagel R.B., Khadka V.S., Corley M.J., Maunakea A.K., Fogelgren B., Ahmed Z.M., Lozanoff S.	A mutation in the tuft mouse disrupts TET1 activity and alters the expression of genes that are crucial for neural tube closure	2016	DMM Disease Models and Mechanisms	9	5

Shah M.U., Sridhara S.K., Wolf J.S., Ambro B.T.	Retained crossbow bolt after penetrating facial trauma	2016	Ear, Nose and Throat Journal	95	1
Menne A., Haase D., Menaker J., Scalea T.	The changing landscape of Trauma care, Part 1	2017	Emergency Medicine	49	7
Harris D., Klyushnenkova E., Kalsi R., Garrido D., Bhardwaj A., Rabin J., Toursavadkoshi S., Diaz J., Crawford R.	Non-white race is an independent risk factor for hospitalization for aortic dissection	2016	Ethnicity and Disease	26	3
Seco C.Z., Giese A.P., Shafique S., Schraders M., Oonk A.M.M., Grossheim M., Oostrik J., Strom T., Hegde R., Van Wijk E., Frolenkov G.I., Azam M., Yntema H.G., Free R.H., Riazuddin S., Verheij J.B.G.M., Admiraal R.J., Qamar R., Ahmed Z.M., Kremer H.	Novel and recurrent CIB2 variants, associated with nonsyndromic deafness, do not affect calcium buffering and localization in hair cells	2016	European Journal of Human Genetics	24	4
Kumar R., Batchelder A., Saratzis A., AbuRahma A.F., Ringleb P., Lal B.K., Mas J.L., Steinbauer M., Naylor A.R.	Restenosis after Carotid Interventions and Its Relationship with Recurrent Ipsilateral Stroke: A Systematic Review and Meta- analysis	2017	European Journal of Vascular and Endovascular Surgery	53	6
Bodanapally U.K., Shanmuganathan K., Dreizin D., Stein D., Reddy A.K., Mirvis S.E., Vasquez M., Cardarelli C., Guardiani E.	Penetrating aerodigestive injuries in the neck: a proposed CT-aided modified selective management algorithm	2016	European Radiology	26	7

Bonatti H., Medina D., Kubicki N., Kavic S.	Laparoscopic removal of an accessory spleen for recurrent idiopathic thrombocytopenic purpura 5 years after laparoscopic splenectomy using perioperative eltrombopag conditioning	2017	European Surgery - Acta Chirurgica Austriaca	49	2
Vakharia K., Vakharia K.	Bell's Palsy	2016	Facial Plastic Surgery Clinics of North America	24	1
Uluer M.C., Bojovic B.	A rare cervical dystonia mimic in adults: Congenital muscular torticollis (Fibromatosis colli), a Follow-up	2016	Frontiers in Neurology	7	FEB
Eidelman E., Twum-Ampofo J., Ansari J., Siddiqui M.M.	The metabolic phenotype of prostate cancer	2017	Frontiers in Oncology	7	JUN
Bellavance E.C., Kesmodel S.B.	Decision-making in the surgical treatment of breast cancer: Factors influencing women's choices for mastectomy and breast conserving surgery	2016	Frontiers in Oncology	6	MAR
Lai K.K.Y., Kweon S.-M., Chi F., Hwang E., Kabe Y., Higashiyama R., Qin L., Yan R., Wu R.P., Lai K., Fujii N., French S., Xu J., Wang J.-Y., Murali R., Mishra L., Lee J.-S., Ntambi J.M., Tsukamoto H.	Stearoyl-CoA Desaturase Promotes Liver Fibrosis and Tumor Development in Mice via a Wnt Positive-Signaling Loop by Stabilization of Low-Density Lipoprotein-Receptor-Related Proteins 5 and 6	2017	Gastroenterology	152	6
Zandberg D.P., Liu S., Golubeva O., Ord R., Strome S.E., Suntharalingam M., Taylor R.,	Oropharyngeal cancer as a driver of racial outcome disparities in squamous cell carcinoma of the head and neck: 10-year	2016	Head and Neck	38	4

Morales R.E., Wolf J.S., Zimrin A., Lubek J.E., Schumaker L.M., Cullen K.J.	experience at the University of Maryland Greenebaum Cancer Center				
Sultan A.S., Mostoufi B., Papadimitriou J.C., Koka R., Basile J., Younis R.H.	Large Cell Transformation of Oral Mycosis Fungoides	2017	Head and Neck Pathology		
Khoury Z.H., Bugshan A., Lubek J.E., Papadimitriou J.C., Basile J.R., Younis R.H.	Glycogen-Rich Clear Cell Squamous Cell Carcinoma Originating in the Oral Cavity	2017	Head and Neck Pathology		
Kronfli A.P., Pasrija C., Shah A., Ghoreishi M., Garcia J.P., Pham S.M., Sanchez P.G., Kon Z.N.	Thrombosis of the right internal jugular vein is not a contraindication to ambulatory veno-venous extracorporeal membrane oxygenation with a bicaval dual- lumen, single cannula system	2016	Heart Surgery Forum	19	6
Rehman A.U., Bird J.E., Faridi R., Shahzad M., Shah S., Lee K., Khan S.N., Imtiaz A., Ahmed Z.M., Riazuddin S., Santos-Cortez R.L.P., Ahmad W., Leal S.M., Riazuddin S., Friedman T.B.	Mutational Spectrum of MYO15A and the Molecular Mechanisms of DFNB3 Human Deafness	2016	Human Mutation	37	10
Simon T., Bromberg J.S.	BTLA+ Dendritic Cells: The Regulatory T Cell Force Awakens	2016	Immunity	45	5
Lal G., Kulkarni N., Nakayama Y., Singh A.K., Sethi A., Burrell B.E., Brinkman C.C., Iwami D., Zhang T., Hehlhans T., Bromberg J.S.	IL-10 from marginal zone precursor B cells controls the differentiation of Th17, Tfh and Tfr cells in transplantation tolerance	2016	Immunology Letters	170	

Froum S.J., Dagba A.S., Shi Y., Perez-Asenjo A., Rosen P.S., Wang W.C.W.	Successful surgical protocols in the treatment of peri-implantitis: A narrative review of the literature	2016	Implant Dentistry	25	3
Yoon R.S., Gage M.J., Galos D.K., Donegan D.J., Liporace F.A.	Trochanteric entry femoral nails yield better femoral version and lower revision rates—A large cohort multivariate regression analysis	2017	Injury	48	6
Loja M.N., Galante J.M., Humphries M., Savage S., Fabian T., Scalea T., Holcomb J.B., Poulin N., DuBose J., Rasmussen T.E.	Systemic anticoagulation in the setting of vascular extremity trauma	2017	Injury		
Dowling M.B., Chaturvedi A., MacIntire I.C., Javvaji V., Gustin J., Raghavan S.R., Scalea T.M., Narayan M.	Determination of efficacy of a novel alginate dressing in a lethal arterial injury model in swine	2016	Injury	47	10
Ball C.G., Campbell A., Grondin S.C., Dixon E., DuBose J., McBeth P.B., Lall R.	Use of a novel saline/bipolar radiofrequency energy instrument as an adjunct for arresting ongoing solid organ surface and laceration bleeding in critically injured patients	2016	Injury	47	9
Shah A., Pasrija C., Kronfli A., Wehman B., Griffith B.P., Sanchez P.G., Garcia J.P., Kon Z.N.	Veno-venous extracorporeal membrane oxygenation use in the treatment of bleomycin pulmonary toxicity	2017	Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery	12	2
Gilotra M., O'Brien M.J., Savoie F.H., 3rd	Arthroscopic Rotator Cuff Repair: Indication and Technique	2016	Instructional course lectures	65	
Mazzeffi M., Gupta R., Lonergan T., Pasrija C., Kon Z., Tanaka K.	ABO type and bleeding during adult ECMO	2017	Intensive Care Medicine	43	2

Mazzeffi M., Kon Z., Sanchez P., Herr D.	Impact of acute liver failure on mortality during adult ECLS	2016	Intensive Care Medicine	42	2
Drake V.E., Rafaels N., Kim J.	Peripheral blood eosinophilia correlates with hyperplastic nasal polyp growth	2016	International Forum of Allergy and Rhinology	6	9
Caldrony S., Ghazali N., Dyalram D., Lubek J.E.	Surgical resection and vascularized bone reconstruction in advanced stage medication-related osteonecrosis of the jaw	2017	International Journal of Oral and Maxillofacial Surgery	46	7
Murphy J.A., Lee M.T., Liu X., Warburton G.	Factors affecting survival following self-inflicted head and neck gunshot wounds: A single-centre retrospective review	2016	International Journal of Oral and Maxillofacial Surgery	45	4
Isaiah A., Pereira K.D.	Laryngotracheal anomalies and airway fluoroscopy in infants	2017	International Journal of Pediatric Otorhinolaryngology	97	
Kutcher M.E., Forsythe R.M., Tisherman S.A.	Emergency preservation and resuscitation for cardiac arrest from trauma	2016	International Journal of Surgery	33	Part B
Hanna D., Magarakis M., Twaddell W.S., Alexander H.R., Kesmodel S.B.	Rapid progression of a pregnancy-associated intra-abdominal desmoid tumor in the post-partum period: A case report	2016	International Journal of Surgery Case Reports	29	
Sidana A., Walton-Diaz A., Truong H., Siddiqui M.M., Miao N., Shih J., Mannes A., Bratslavsky G., Linehan W.M., Metwalli A.R.	Postoperative elevation in creatine kinase and its impact on renal function in patients undergoing complex partial nephrectomy	2016	International Urology and Nephrology	48	7
Cai S.S., Gowda A.U., Alexander R.H., Silverman R.P., Goldberg N.H., Rasko Y.M.	Use of negative pressure wound therapy on malignant wounds – a case report and review of literature	2017	International Wound Journal	14	4
Chopra K., Buckingham B., Matthews J., Sabino J., Tadisina	Acellular dermal matrix reduces capsule formation in two-stage breast reconstruction	2017	International Wound Journal	14	2

K.K., Silverman R.P., Goldberg N.H., Slezak S., Singh D.P.					
Gowda A.U., Chang S.M., Chopra K., Matthews J.A., Sabino J., Stromberg J.A., Zahiri H.R., Pinczewski J., Holton L.H., 3rd, Silverman R.P., Singh D.P.	Porcine acellular dermal matrix (PADM) vascularises after exposure in open necrotic wounds seen after complex hernia repair	2016	International wound journal	13	5
Chopra K., Tadisina K.K., Singh D.P.	The 'French Fry' VAC technique: Hybridisation of traditional open wound NPWT with closed incision NPWT	2016	International Wound Journal	13	2
Patterson E.J., Wilk M., Langlo C.S., Kasilian M., Ring M., Hufnagel R.B., Dubis A.M., Tee J.J., Kalitzeos A., Gardner J.C., Ahmed Z.M., Sisk R.A., Larsen M., Sjoberg S., Connor T.B., Dubra A., Neitz J., Hardcastle A.J., Neitz M., Michaelides M., Carroll J.	Cone photoreceptor structure in patients with x-linked cone dysfunction and red-green color vision deficiency	2016	Investigative Ophthalmology and Visual Science	57	8
Mazzeffi M., Galvagno S., Gammie J.S., Tanaka K.	Impact of aspirin use on morbidity and mortality in massively transfused cardiac surgery patients: a propensity score matched cohort study	2016	Journal of Anesthesia	30	5
Young P.A., Migliorini M., Strickland D.K.	Evidence that factor VIII forms a bivalent complex with the Low Density Lipoprotein (LDL) Receptor-related Protein 1 (LRP1): Identification of cluster	2016	Journal of Biological Chemistry	291	50

	IV on LRP1 as the major binding site				
Prasad J.M., Young P.A., Strickland D.K.	High affinity binding of the receptor-associated protein D1D2 domains with the low density lipoprotein receptorrelated protein (LRP1) Involves bivalent complex formation: Critical roles of lysines 60 and 191	2016	Journal of Biological Chemistry	291	35
Balenga N., Azimzadeh P., Hogue J.A., Staats P.N., Shi Y., Koh J., Dressman H., Olson J.A., Jr.	Orphan Adhesion GPCR GPR64/ADGRG2 Is Overexpressed in Parathyroid Tumors and Attenuates Calcium-Sensing Receptor-Mediated Signaling	2017	Journal of Bone and Mineral Research	32	3
Salenger R., Gammie J.S., Collins J.A.	Minimally Invasive Aortic Valve Replacement	2016	Journal of Cardiac Surgery	31	1
Wipfli C., Fitzpatrick M.V., Fitzpatrick J.K., Taylor B.S., Tanaka K.A.	Assessment of Fibrin Polymerization During Bivalirudin Anticoagulation for Transcatheter Aortic Valve Replacement	2017	Journal of Cardiothoracic and Vascular Anesthesia	31	4
Lonergan T., Herr D., Kon Z., Menaker J., Rector R., Tanaka K., Mazzeffi M.	The HAT Score—A Simple Risk Stratification Score for Coagulopathic Bleeding During Adult Extracorporeal Membrane Oxygenation	2017	Journal of Cardiothoracic and Vascular Anesthesia	31	3
Mazzeffi M.A., Stafford P., Wallace K., Bernstein W., Deshpande S., Odonkor P., Grewal A., Strauss E., Stubbs L., Gammie J., Rock P.	Intra-abdominal Hypertension and Postoperative Kidney Dysfunction in Cardiac Surgery Patients	2016	Journal of Cardiothoracic and Vascular Anesthesia	30	6

Henderson R.S., Deshpande S., Williams B., Taylor B.S., Tanaka K.A.	Idarucizumab for Dabigatran Reversal in Emergency Type-A Aortic Dissection	2016	Journal of Cardiothoracic and Vascular Anesthesia		
Koh J., Hogue J.A., Wang Y., Disalvo M., Allbritton N.L., Shi Y., Olson J.A., Sosa J.A.	Single-cell functional analysis of parathyroid adenomas reveals distinct classes of calcium sensing behaviour in primary hyperparathyroidism	2016	Journal of Cellular and Molecular Medicine	20	2
Nuthalapati A., Schluterman N., Khanna A., Greenberg D., Thuluvath P.J.	Impact of Acute Kidney Injury on Mortality of Patients Hospitalized for Complications of Cirrhosis	2016	Journal of Clinical and Experimental Hepatology		
Martin L.W., D'Cunha J., Wang X., Herzan D., Gu L., Abraham N., Demmy T.L., Detterbeck F.C., Groth S.S., Harpole D.H., Krasna M.J., Kernstine K., Kohman L.J., Patterson G.A., Sugarbaker D.J., Vollmer R.T., Maddaus M.A., Kratzke R.A.	Detection of occult micrometastases in patients with clinical stage i non-small-cell lung cancer: A prospective analysis of mature results of CALGB 9761 (Alliance)	2016	Journal of Clinical Oncology	34	13
Dancy J.G., Wadajkar A.S., Schneider C.S., Mauban J.R.H., Goloubeva O.G., Woodworth G.F., Winkles J.A., Kim A.J.	Non-specific binding and steric hindrance thresholds for penetration of particulate drug carriers within tumor tissue	2016	Journal of Controlled Release	238	
Cai S.S., Mossop C., Diaconu S.C., Hersh D.S., AlFadil S., Rasko Y.M., Christy M.R., Granta M.P., Nam A.J.	The "Crumple Zone" hypothesis: Association of frontal sinus volume and cerebral injury after craniofacial trauma	2017	Journal of Cranio- Maxillofacial Surgery	45	7

Diaconu S.C., Dreizin D., Uluer M., Mossop C., Grant M.P., Nam A.J.	The validity and reliability of computed tomography orbital volume measurements	2017	Journal of Cranio-Maxillofacial Surgery		
Coleman B.G., Johnson T.M., Erley K.J., Topolski R., Rethman M., Lancaster D.D.	Preparing dental students and residents to overcome internal and external barriers to evidence-based practice	2016	Journal of Dental Education	80	10
Au D.T., Strickland D.K., Muratoglu S.C.	The LDL Receptor-Related Protein 1: At the Crossroads of Lipoprotein Metabolism and Insulin Signaling	2017	Journal of Diabetes Research	2017	
Watson M.J., Sidana A., Diaz A.W., Siddiqui M.M., Hankins R.A., Bratslavsky G., Linehan W.M., Metwalli A.R.	Repeat Robotic Partial Nephrectomy: Characteristics, Complications, and Renal Functional Outcomes	2016	Journal of Endourology	30	11
Alexander H.R., Jr., Burk A.P.	Diagnosis and management of patients with malignant peritoneal mesothelioma	2016	Journal of Gastrointestinal Oncology	7	1
Karakousis G.C., Richard Alexander H.	Cytoreductive surgery and hyperthermic intraperitoneal chemotherapy for peritoneal surface malignancy	2016	Journal of Gastrointestinal Oncology	7	1
Neuwirth M.G., Alexander H.R., Karakousis G.C.	Then and now: Cytoreductive surgery with hyperthermic intraperitoneal chemotherapy (HIPEC), a historical perspective	2016	Journal of Gastrointestinal Oncology	7	1
Albrecht J.S., Slejko J.F., Stein D.M., Smith G.S.	Treatment Charges for Traumatic Brain Injury Among Older Adults at a Trauma Center	2017	Journal of Head Trauma Rehabilitation		
Xiong Y., Ahmad S., Iwami D., Brinkman C.C., Bromberg J.S.	T-bet regulates natural regulatory T cell afferent lymphatic migration and suppressive function	2016	Journal of Immunology	196	6

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Brazio P.S., Morrison A.L., Oh M., Goldberg N., Boutros C.N.	Large pleomorphic hyalinizing angiectatic tumor of the forearm: A multidisciplinary perspective	2016	Surgery (United States)	159	5
Wise E.S., Hocking K.M., Weltz A., Uebele A., Diaz J.J., Kavic S.M., Kligman M.D.	Red cell distribution width is a novel biomarker that predicts excess body-mass index loss 1 year after laparoscopic Roux-en-Y gastric bypass	2016	Surgical Endoscopy and Other Interventional Techniques	30	10
Wise E.S., Ahmad S., Ladner T.R., Hocking K.M., Kavic S.M.	Impaired weight loss in laparoscopic adjustable gastric banding patients over 50 years of age: diabetes mellitus as an independent risk factor	2016	Surgical Endoscopy and Other Interventional Techniques	30	2
Wise E.S., Hocking K.M., Kavic S.M.	Prediction of excess weight loss after laparoscopic Roux-en-Y gastric bypass: data from an artificial neural network	2016	Surgical Endoscopy and Other Interventional Techniques	30	2
Huston J.M., Kao L.S., Chang P.K., Sanders J.M., Buckman S., Adams C.A., Cocanour C.S., Parli S.E., Grabowski J., Diaz J., Tessier J.M., Duane T.M.	Antibiotics vs. Appendectomy for Acute Uncomplicated Appendicitis in Adults: Review of the Evidence and Future Directions	2017	Surgical Infections	18	5
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Taunk N.K., Rimner A., Culligan M., Friedberg J.S., Brahmer J., Chافت J.	Immunotherapy and radiation therapy for operable early stage and locally advanced non-small cell lung cancer	2017	Translational Lung Cancer Research	6	2
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Timofte I., Terrin M., Barr E., Sanchez P., Kim J., Reed R., Britt E.,	Belatacept for renal rescue in lung transplant patients	2016	Transplant International	29	4

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Markmann J.F., Bartlett S.T., Johnson P., Korsgren O., Hering B.J., Scharp D., Kay T.W.H., Bromberg J., Odorico J.S., Weir G.C., Bridges N., Kandaswamy R., Stock P., Friend P., Gotoh M., Cooper D.K.C., Park C.- G., O’Connell P.J.,	Executive summary of IPITA-TTS opinion leaders report on the future of b-cell replacement	2016	Transplantation	100	7

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Phelan M.	Editorial Comment	2016	Urology	91	
Berli J.U., Zelken J., Schuyler K., Naslund M., Rasko Y.	Ectopic Hydrocele After Testicular Transposition	2016	Urology	90	
Fascelli M., Rais-Bahrami S., Sankineni S., Brown A.M., George A.K., Ho R., Frye T., Kilchevsky A., Chelluri R.,	Combined biparametric prostate magnetic resonance imaging and prostate-specific antigen in the detection of prostate cancer: A validation study in a	2016	Urology	88	

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Wang J.-Y., Xiao L., Wang J.-Y.	Posttranscriptional regulation of intestinal epithelial integrity by noncoding RNAs	2017	Wiley Interdisciplinary Reviews: RNA	8	2
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Burdorf L., Riner A., Rybak E., Salles I.I., De Meyer S.F., Shah A., Quinn K.J., Harris D., Zhang	Platelet sequestration and activation during GalTKO.hCD46 pig lung perfusion by human blood is primarily mediated by GPIb,	2016	Xenotransplantation	23	3

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