

# **Krishna G. Putchakayala, MD**

Multi-Organ Abdominal Transplant and Hepatobiliary Surgery  
Beaumont Health System

## **EDUCATION**

|                                   |   |
|-----------------------------------|---|
| <b>June 2015 -<br/>June 2017</b>  | <b>Henry Ford Hospital</b> , Detroit, MI<br>Multi-Organ Abdominal Transplant and Hepatobiliary Surgery Fellowship |
| <b>June 2009 -<br/>June 2014</b>  | <b>Kaiser Permanente Los Angeles Medical Center</b> , Los Angeles, CA<br>General Surgery Internship/Residency     |
| <b>August 2005 -<br/>May 2009</b> | <b>Northwestern University Feinberg School of Medicine</b> , Chicago, IL<br>M.D.                                  |
| <b>August 2001 -<br/>May 2005</b> | <b>University of Michigan College of Engineering</b> , Ann Arbor, MI<br>M.S.E. & B.S.E Biomedical Engineering     |

## **LICENSURE**

**Michigan Medical Board License**

## **CERTIFICATIONS**

**Board Certified General Surgery** (American Board of Surgery - 11/2014)  
**Fundamentals of Laparoscopic Surgery Certification** (SAGES - 5/2013)  
**Advanced Trauma Life Support Certification** (ACS - 6/2013)  
**Certificate in Surgery and Global Health** (Unite for Sight GHU - 2014)

## **EXPERIENCES**

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|---------------------------------------|--|
| <b>October 2017 -<br/>Present</b>     | <b>Transplant Surgeon</b> , Beaumont Hospital, 3601 W 13 Mile Rd, Royal Oak, MI<br>Liver and Kidney Transplant Surgery, Hepato-Pancreato-Biliary Surgery, General Surgery<br>Proctor: Liver Resection Course, Laparoscopic Port Placement Course |
| <b>November 2014<br/>- April 2015</b> | <b>Locum Tenens Surgeon</b> , Vista Staffing Solutions, 275 E 200 S, Salt Lake City, UT<br>Fort Defiance Indian Hospital, Fort Defiance, AZ (11/20 - 12/12)<br>Chinle Comprehensive Health Care Facility, Chinle, AZ (12/15 - 1/30, 3/30-4/17)   |
| <b>August 2014 -<br/>Sept 2014</b>    | <b>Surgical Volunteer</b> , Tiba Foundation, 365 Vermont St, San Francisco, CA<br>Muhimbili University of Health and Allied Sciences, Dar es Salaam, Tanzania (8/24-9/7)<br>Siaya District Hospital, Siaya, Kenya (9/8-9/20)                     |
| <b>July 2013 -<br/>June 2014</b>      | <b>Educational Chief</b> , Kaiser Permanente Los Angeles Medical Center (LAMC)<br>Organized/implemented didactic and skills curricula  |
| <b>January 2013 -<br/>June 2014</b>   | <b>Hospital Readmission Reduction Committee</b> , Kaiser Permanente LAMC<br>General Surgery Department Representative  |
| <b>November 2012<br/>- June 2014</b>  | <b>Surgical Care Improvement Project Committee</b> , Kaiser Permanente LAMC<br>General Surgery Department Representative   |
| <b>May 2002 -<br/>May 2005</b>        | <b>Researcher</b> , Center for Biologic Nanotechnology, Ann Arbor, MI  |
| <b>Summer 2004</b>                    | <b>Summer Associate</b> , Pfizer Global Research and Development, Groton, CT   |

## **INVITED LECTURES**

- 2021** "Hepatic Tumors" - Oakland University Medical School  
"Portal Hypertension (for surgeons)" - Kaiser Los Angeles Medical Center Surgery Grand Rounds

- “Solid Organ Transplantation” - Michigan State University Surgery Grand Rounds
- 2020**
  - “Updates in Portal Hypertension” - Beaumont Hospital Royal Oak GI Grand Rounds
  - “Mechanics of Organ Allocation” - Beaumont Hospital Royal Oak Transplant Grand Rounds
  - “Hepatic Tumors” - Oakland University Medical School
  - Case Presentation - Beaumont Hospital Royal Oak Transplant Grand Rounds
  - “Updates in Liver Transplantation” - Beaumont Hospital Royal Oak GI Grand Rounds
  - Case Presentation - Beaumont Hospital Royal Oak Transplant Grand Rounds
  - Case Presentation - Beaumont Hospital Royal Oak Transplant Grand Rounds
  - Case Presentation - Beaumont Hospital Royal Oak Transplant Grand Rounds
- 2019**
  - “Laparoscopic Hepatopancreatobiliary Surgery: Surgical Video Anatomic Review” - Michigan State University Surgical Grand Rounds
  - “Updates in Pancreatic Surgery” - Michigan State University Surgical Grand Rounds
  - “Kidney Transplantation” - Vascular Innovations Conference
- 2018**
  - Laparoscopic Port Placement Course (Proctor) - Beaumont Hospital Royal Oak Surgery Department
  - Liver Resection Course (Proctor) - Beaumont Hospital Royal Oak Surgery Department
  - Case Presentation - Beaumont Hospital Royal Oak Transplant Grand Rounds
  - “Locums/International Surgery” - Beaumont Hospital Royal Oak General Surgery Grand Rounds
  - “A Pictorial Review of Transplant Anatomy” - Beaumont Hospital Royal Oak Transplant Grand Rounds
  - “Who’s on First? A Multidisciplinary Approach to Colorectal Carcinoma” - Beaumont Hospital Royal Oak GI Grand Rounds
- 2017**
  - “Coagulopathy of Liver Disease” - Beaumont Hospital Royal Oak Transplant Grand Rounds
  - “Current Controversies in Liver Transplant” - Beaumont Hospital Royal Oak GI Grand Rounds

#### **ORAL PRESENTATIONS**

- 2018**
  - “Comparing Pyogenic Liver Abscess Interventional Treatment Modalities”
  - Michigan Chapter ACS - Mackinac, MI
- 2016**
  - “Left Renal Vein Ligation for Management of Portal Hypoperfusion in Liver Transplantation”
  - Michigan Chapter ACS - Mackinac, MI
- 2014**
  - “Intraoperative Ultrasound Localization of Hydrogel-based Breast Biopsy Markers as an Alternative to Wire Localization for Non-palpable Breast Malignancies”
  - American College of Surgeons SCC - Santa Barbara, CA
  - National Surgical Symposium - Kahuku, HI (*Award Winner*)
- 2013**
  - “Acute Hemodilution is Safe in Patients with Comorbid Medical Illness Undergoing Partial Hepatectomy”
  - National Surgical Symposium - Rancho Mirage, CA
  - American College of Surgeons SCC - Santa Barbara, CA
- 2011**
  - “D2 Lymph Node Dissection Improves Staging in Patients with Gastric Adenocarcinoma”
  - National Surgical Symposium - Rancho Mirage, CA
  - American College of Surgeons SCC - Santa Barbara, CA
- 2010**
  - “Intraoperative Hypovolemic Hemodilution Reduces Need for Blood Transfusion in Patients Undergoing Hepatic Resection”
  - Pacific Coast Surgical Association - Scottsdale, AZ
  - National Surgical Symposium - Monterey, CA (*Award Winner*)

#### **POSTER PRESENTATIONS**

- 2017**
  - “Graft-versus-host Disease following Deceased Donor Liver Transplant”
  - American Transplant Congress - Chicago, IL
- 2017**
  - “Hypercoagulability Persists up to Three Months Following Partial Hepatic Resection”
  - ASTS Winter Symposium - Miami, FL
- 2017**
  - “Implementation of Operative Bundles May Decrease Complications”
  - ASTS Winter Symposium - Miami, FL
- 2016**
  - “Left Renal Vein Ligation for Management of Portal Hypoperfusion in Liver Transplantation: An Algorithmic Approach”
  - American Transplant Congress - Boston, MA

- 2016 “Percutaneous Fibrin Sealant for Lymphocele after Kidney Transplant”  
Henry Ford Medical Education Research Forum - Detroit, MI
- 2004 “An Atomic Force Microscopy Study of Early Morphologic Changes During Apoptosis”  
Advances and Applications in SPM Symposium – Detroit, MI
- 2003 “Nanofabrication of Dendrimer Coated Gold Surfaces for Selective Cell Adhesion”  
IEEE-EMBS - Cancun, MX
- 2003 “A novel platform for the real-time measurement of nanometric, morphologic alterations in neuroblastoma cells receiving an electric stimulus on a microelectrode array”  
Neuroscience - New Orleans, LA  
Nanoscience/Nanotechnology Symposium - Ann Arbor, MI

#### INVITED ORAL PRESENTATIONS

- 2018 “Who’s on First? A Multidisciplinary Approach to Colorectal Carcinoma”  
Gastroenterology Grand Rounds - Beaumont Hospital, Royal Oak, MI
- 2018 “A Pictorial Review of Transplant Anatomy”  
Transplantation Grand Rounds - Beaumont Hospital, Royal Oak, MI
- 2018 “Locums/International Surgery”  
General Surgery Grand Rounds - Beaumont Hospital, Royal Oak, MI
- 2017 “Current Controversies in Liver Transplantation”  
Gastroenterology Grand Rounds - Beaumont Hospital, Royal Oak, MI
- 2017 “Coagulopathy of Liver Disease”  
Transplantation Grand Rounds - Beaumont Hospital, Royal Oak, MI

#### INVITED PUBLICATIONS

- 2003 “Nanotexturing Gold Surfaces with Dendrimers for Selective Cell Adhesion”  
Proceedings of the 25th Annual International Conference of the IEEE-EMBS

#### PEER-REVIEWED PUBLICATIONS

- 2017 Takahashi K, Nagai S, **Putchakayala K**, Safwan M, Li A, Kane W, Singh P, Collins K, Rizzari M, Yoshida A, Schnickel G, Abouljoud M “Prognostic impact of postoperative low platelet count after liver transplantation.” *Clin Transplant*. 2017, 31(3)  
Takahashi K, Prashar P, **Putchakayala K**, Kane WJ, Denny JE, Kim DY, Malinzak LE “Allograft loss from acute PAGE kidney secondary to trauma after kidney transplantation.” *World J Transplant*, 2017, 7(1), 88-93.  
Takahashi K, Go P, Stone CH, Safwan M, **Putchakayala K**, Kane WJ, Malinzak LE, Kim DY, Denny JE “Mycophenolate Mofetil and pulmonary fibrosis after kidney transplantation: A case report.” *Am J Case Rep*, 2017, 18, 399-404.  
Takahashi K, Nagai S, **Putchakayala K**, Safwan M, Goshu M, Li AY, Kane WJ, Singh PL, Rizzari MD, Collins KM, Yoshida A, Abouljoud MS, Schnickel GT “Prediction of biliary anastomotic stricture after deceased donor liver transplantation: the impact of platelet counts - a retrospective study” *Transpl Int*, 2017, 30(10), 1032-1040.  
Takahashi K, **Putchakayala K**, Safwan M, Kim DY “Extrahepatic metastasis of hepatocellular carcinoma to the paravertebral muscle: a case report.” *World J Hepatol*, 2017, 9(22), 973-978.  
Takahashi K, Patel AK, Nagai S, Safwan M, **Putchakayala K**, Kane WJ, Malinzak LE, Denny JE, Yoshida A, Kim DY “Perioperative Ketorolac use: a potential risk factor for renal dysfunction after live-donor nephrectomy.” *Ann Transplant*, 2017, 22, 563-569.
- 2016 Takahashi K, Patel AK, **Putchakayala K**, Denny JE, Kim DY, Malinzak LE “Arterioenteric fistula 12 years after kidney transplant.” *Kidney Int*, 2016, 90(3), 710.
- 2015 Lau B, Franken C, Lee D, **Putchakayala K**, DiFronzo LA. “Short-term Outcomes of Laparoscopic versus Open Formal Anatomical Hepatectomy: A Case Matched Control Study.” *Am Surg*, 2015, 81(10) 1097-1100.
- 2014 Franken C, Lau B, **Putchakayala K**, DiFronzo LA. “Comparison of short-term outcomes in laparoscopic vs open hepatectomy”. *JAMA Surg*, 2014, 149(9), pg. 941-946.

- 2013 **Putchakayala K**, DiFronzo LA. "Acute hemodilution is safe in patients with comorbid illness undergoing partial hepatectomy". *Am Surg*, 2013, 79(10), pg. 1093-1097.
- 2011 **Putchakayala K**, DiFronzo LA. "D2 lymph node dissection improves staging in patients with gastric adenocarcinoma". *Am Surg*, 2011, 77(10), pg. 1326-1329.
- 2010 Rayhanabad J, Yegiyants S, **Putchakayala K**, et al. "Axillary recurrence is low in patients with breast cancer who do not undergo completion axillary lymph node dissection for micrometastases in sentinel lymph nodes". *Am Surg*, 2010, 76(10), pg. 1088-1091.
- 2009 Chen J, Hessler JA, **Putchakayala K**, et al. "Cationic nanoparticles induce nanoscale disruption in living cell plasma membranes". *J Phys Chem B*, 2009, 113(32), pg. 11179-11185.
- 2008 **Putchakayala K**, Polensky S, Fitzhugh J, Cohran V, Buchman A, Fryer J. "An evaluation of the model for end-stage liver disease and serum C-reactive protein as prognostic markers in intestinal failure patients on parenteral nutrition". *J Parenter Enter Nutr*, 2008, 33(1), pg. 55-61.
- 2005 Hessler JA, Budor A, **Putchakayala K**, et al. "Atomic Force Microscopy Study of Early Morphological Changes during Apoptosis". *Langmuir*, 2005, 21(20), pg. 9280-9286.
- 2004 Shenai MB, **Putchakayala K**, et al. "A Novel MEA/AFM Platform for Measurement of Real-time, Nanometric Morphological Alterations of Electrically Stimulated Neuroblastoma Cells". *IEEE Transactions on Nanobiotechnology*, 2004, 3(2), pg 111-117.