

Nikesh R. Lath, MD FACS

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Date of Birth: April 30 1983

Medical Education:

Dr. D. Y Patil Medical College, Hospital and Research Centre, Mumbai, India

(July 2000 - May 2006) -University of Mumbai, India

Internship at Dr.D.Y.Patil Hospital and Research centre and Rajawadi Hospital, Mumbai.

Graduated in May 2006

Degree Awarded: Bachelor of Medicine and Bachelor of Surgery (M.B:B.S)

Scholarships:

Awarded Scholarships 3 times by J.R.D TATA & RATAN TATA trusts for excellence in medical school academics

USMLE SCORES:

Step 1: 96/237 (March 2006)

Step 2 CK: 89/220 (July 2006)

Step 2 CS: Passed (September 2006)

Step 3: Passed (Jan 2007)

ECFMG CERTIFIED on October 18 2006

ACLS and ATLS Certified.

Residency Training :

July 2007 to June 2009 - PGY 1 and PGY 2 Preliminary General Surgery Residency at Columbia University affiliated Harlem Hospital, New York.

ABSITE (American Board of Surgery In training Examination) Jan 2008 – 67th percentile

ABSITE Jan 2009 – 77th percentile

July 2009 to June 2011 – Basic Science Stem cell research fellowship at University of Pittsburgh/Children’s Hospital of Pittsburgh

July 2011 to June 2015 – Categorical PGY 2 – PGY 5 General Surgery Residency at Morristown Medical Centre of Atlantic Health system/ ICAHN School of Medicine at Mt Sinai, Morristown, NJ

Graduated June 2015

ABSITE 2012 – 97th percentile

ABSITE 2013 – 69th percentile

ABSITE 2014 – 87th percentile

ABSITE 2015 – 59th percentile

BOARD CERTIFIED in GENERAL SURGERY –March 2016

Fellow of American College of Surgeons (FACS) - October 2017

Work Experience

Sep 2015 to Nov 2018 - General Surgeon/Trauma Surgeon on staff at St Mary Hospital, Decatur, IL

Founder of the Robotics Surgery program at St Mary’s Hospital

Dec 2018 to Feb 2023 - General Surgeon on staff at Carle Bromenn Hospital, Normal, IL

Trauma Medical Director at Carle Bromenn Hospital effective Nov 2021

General Surgery / Advanced Laparoscopic and Minimally Invasive Surgery including Foregut Surgery, Laparoscopic Colectomy, Breast Surgery, Colorectal Cancer, Robotic Surgery, Skin Cancer and Upper Endoscopy/Colonoscopy using the DaVinci Robot for Ventral Hernias, Umbilical Hernia, Inguinal Hernia, Hiatal Hernia and Fundoplication,

Multiport and Single-Incision Cholecystectomy, Colectomy and Splenectomy

Feb 2023 to Present- General Surgeon, Progressive Surgical Associates, New Lenox, IL; on staff at Silver Cross Hospital, New Lenox, IL

Current practice involves General Surgery / Advanced Laparoscopic and Minimally Invasive Surgery including Foregut Surgery, Laparoscopic Colectomy, Breast Surgery, Colorectal Cancer, Robotic Surgery, Skin Cancer and Upper Endoscopy/Colonoscopy using the DaVinci Robot for Ventral Hernias, Umbilical Hernia, Inguinal Hernia, Hiatal Hernia and Fundoplication,

Previous Intuitive Da Vinci Regional Proctor

Research Experience:

Basic science research in Developmental Biology and Stem cells of Lungs and Pancreas and Diabetes in Pediatric Surgery department at Children's hospital of Pittsburgh of University of Pittsburgh Medical Centre (UPMC) with Dr George Gittes and Dr Douglas Potoka. (July 2009 – June 2011).

Mastered the art of mouse embryo dissection and survivable US guided “In Utero Live intracardiac injection in the developing mouse embryo”

Projects-

- In Utero Tissue Engineering – Transdetermination of Embryonic Hepatocytes into Functional Islet cells using adenovirus vector.
- Defective Neuronal Innervation and Autonomic Imbalance in Human Congenital Diaphragmatic Hernia (CDH) and a murine model of CDH.
- Intrauterine Assessment of the Lung hypoplasia in Congenital Diaphragmatic Hernia (CDH) using micro bubbles technique.
- Analysis of Embryonic Pulmonary Blood flow – Effects on Airway branching morphogenesis and development of Pulmonary Hypoplasia in CDH.
- Using Morpholino (Antisense Oligos) as an effective tool of “In utero gene knock down”.

- 3 D Imaging of Islet Vasculature.
- Using Arf6 morpholino to mimic biliary atresia early in the developing mouse embryo
- Using ESRP 1 morpholino in the developing mouse and studying the role of FGFR2b and FGFR2c in the gut and overall embryo as a whole (Working with Dr Cartland Burns, MD)

- Contributed two chapters (Inguinal hernias and Testicular torsion) in the section of surgical disorders of the neonate with Dr Timothy Kane (Published July 31 2013)
Handbook of Neonatal Critical Care by Gary A Silverman, Jennifer Kloesz, Abeer Azzuga and Beverly Brozanski (Jul 31, 2013)

Publications –

- **Lath N**, Familua O, Adu A, Oluwole S. Massive Abdominal Wall Hibernoma – Case report and literature review of a rare soft tissue tumor. **Journal of National Medical association**. 2011 April;103(4):372-375
- **Lath N**, Shiota C, Jakub A, Tulachan S, Paredes J, Prasad K, Guo P, El Gohary Y, Gittes G. In Utero Tissue Engineering – Transdetermination of Embryonic Hepatocytes into functional Islet cells. **Journal of American College of Surgeons**. Volume 211 Issue 3 Supplement S74 September 2010
- **Lath NR**, Rai K, Alshafie T. Open Repair of Abdominal Aortic Aneurysm in a Centenarian – **J Vasc Surg**. 2011 Jan;53(1):216-8. Epub 2010 Sep 22.
(This is the oldest case reported in the English literature successfully operated for elective open repair of abdominal aortic aneurysm).
- Shah S, Esni F, Jakub A, Paredes J, **Lath N**, Malek M, Potoka D, Houshmand G, Prasad K, Mastroberardino P, Shiota C, Guo P, Miller K, Hackam D, Burns C, Tulachan S, Gittes GK.. Embryonic mouse blood flow and oxygen regulate early

pancreatic differentiation. **Dev Biol.** 2011 Jan 15;349(2):342-9. Epub 2010 Nov 2.

- Prasad K, Koizumi M, Tulachan S, Shiota C, **Lath N**, Paredes J, Guo P, El Gohary Y, Malek M, Shah S, Gittes GK. The Expression and function of glucose dependent insulinotropic polypeptide (GIP) in the embryonic mouse pancreas. **Diabetes.** 2011 Feb;60(2):548-54

- **Lath N**, Galambos C, Gittes GK, Potoka DA. Defective Innervation and Autonomic Imbalance in Human Congenital Diaphragmatic Hernia (CDH) and a murine model of CDH. *Am J Physiol Lung Cell Mol Physiol.* 2012 Feb;302(4):L390-8.

- Elgohary Y, Sims-lucas S, **Lath N**, Tulachan S, Guo P, Xiao X, Welsh C, Paredes J, Wiersch J, Prasad K, Shiota C, Gittes GK. Three Dimensional Analysis of Islet Vasculature. [Anat Rec \(Hoboken\)](#). 2012 Jul 16. doi: 10.1002/ar.22530. [Epub ahead of print]

- Elgohary Y, Tulachan S, Guo P, Welsh C, Prasad K, Paredes J, **Lath N**, Shiota C, Gittes GK. Smad signaling plays a key role in regulating islet cell proliferation and development. *Journal of American College of Surgeons.* 2011 Sep 213(3): S86

- First Author Oral Presentation (Surgical Forum) in the 96th Annual clinical congress of American College of Surgeons (ACS), Washington DC 2010. "In Utero Tissue Engineering – Transdetermination of embryonic hepatocytes into functional islet cells."

- Co – Author of Abstract selected for Oral presentation in the 96th Annual clinical congress of American College of Surgeons (ACS), Washington DC 2010. "Trans-uterine Intracardiac Gene Targeting of Embryonic Tissues".

- First Author Oral Presentation in the 6th Annual Academic Surgical Congress Meeting.

Huntington Beach Feb 1- 3 2011. “Defective Neuronal Innervation and Autonomic Imbalance in Human Congenital Diaphragmatic Hernia (CDH) and a murine model of CDH”

- Oral Presentation of “Defective Neuronal Innervation and Autonomic Imbalance in Congenital Diaphragmatic Hernia” at the Annual Research Day of University of Pittsburgh Medical Centre (UPMC) Department of Surgery.

Co-author of abstract selected for oral presentation in 99th Annual clinical congress meeting of American College of Surgeons. “Smad signaling plays a key role in regulating islet cell proliferation and development”

Hobbies/Interests:

Travelling, Adrenaline adventures, Music, Cooking, Swimming, Tennis, Biking, Cricket