

## CURRICULUM VITAE

A. **Personal Information:**

Name	Nanda Kerkar, MD
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Citizenship	USA

B. **Education**

High School	La Martiniere School for Girls, Calcutta West Bengal, India, 1979
Junior College	La Martiniere School for Girls, Calcutta West Bengal, India, 1981
Medical School	Medical College, Calcutta, West Bengal 1981-1986, Bachelor of Medicine & Bachelor of Surgery, MBBS, 1988
Internship	Medical College, Calcutta & TN Medical College Mumbai, India, Jun 1986-Jun 1987
Residency	Pediatrics: BJW Hospital for Children, Mumbai, India Aug 1987- Jul 1989 Pediatrics & Neonatology: Hospitals in South East England, United Kingdom Oct 1990-Jul 1994
Fellowship	Core Pediatrics & Neonatology: Kings College Hospital, London, United Kingdom Feb 1995-Jul1996, Sep 1998-Feb1999 Clinical Research Immunology & Hepatology: University College London & King's College London Aug 1996-Jul 1998 Pediatric Hepatology & Gastroenterology: King's College Hospital, London; Royal Free Hospital, London, Mar1999-May 2000; Jan 2001-June 2002
Honors & Awards	Children Nationwide Research Scholarship, Royal College of Physicians, London (1996-1998)

Board Certification	Certificate of Higher Specialist Training in Pediatrics and Pediatric Gastroenterology/Hepatology, CCST; (UK equivalent of board certification in the United States – awarded after completing specified post-graduate training in Pediatrics & Pediatric Gastroenterology and Hepatology). The Specialist Training Authority of the Medical Royal Colleges, United Kingdom, 2002
Other	<p>Doctor of Medicine, MD (Degree after completing 2 years in the laboratory, and successfully defending thesis) University of London, UK, 2001</p> <p>Member of the Royal College of Pediatrics &amp; Child Health MRCPCH, Royal College of Pediatrics &amp; Child Health, UK, 1999</p> <p>Member of the Royal Colleges of Physicians of United Kingdom (after completing requisite pediatric training and passing the written &amp; clinical test), 1994</p> <p>Diploma in Child Health, DCH; The College of Physicians and Surgeons, Mumbai, India, 1990</p> <p>Doctor of Medicine, MD University of the State of New York September 2017</p>

**C. Licensure**

New York 237619 Active  
 California A135550 Active  
 DEA BK8056889  
 NPI 1841251139

**D. Professional Background:****Academic appointments**

Instructor in Pediatrics and Surgery, Mount Sinai School of Medicine, New York. 2002 – 2004  
 Assistant Professor in Pediatrics and Surgery, Mount Sinai School of Medicine, New York, NY. 2004 – 2008  
 Associate Professor in Pediatrics and Surgery, Mount Sinai School of Medicine, New York, NY. 2008 – Aug 2012  
 Interim Chief of Hepatology, Department of Pediatrics, Mount Sinai School of Medicine, New York, NY. 2011 – Aug 2012  
 Professor of Clinical Pediatrics, Keck School of Medicine, University of Southern California, Nov 2012 – Sep2016  
 Adjunct Professor of Pediatrics, University of Southern California, October 2016-current  
 Professor of Pediatrics, Golisano Childrens Hospital, University of Rochester, New York. March 2017-current

**Clinical Administrative Appointments**

Medical Director, Pediatric Liver and Liver Transplant, RMTI, The Mount Sinai Medical Center, New York, NY. 2006-2012

Medical Director, Pediatric Liver and Intestinal Transplant and Director Hepatology Program, Children's Hospital of Los Angeles, CA Nov 2012 – Dec2015

Director Pediatric Liver Disease & Liver Transplantation Program, Golisano Childrens Hospital, University of Rochester, New York. March 2017-current

### **Specific Teaching Responsibilities**

I have an active role in the training of the pediatric gastroenterology fellows during the hepatology component of their 3 year training – in the clinics, floors and during internal conferences. I participate in teaching the residents and interns during rounds. I give didactic lectures to residents, gastroenterology fellows and nursing staff on subjects related to Pediatric Hepatology and Liver Transplant. I have given grand rounds in New York and adjoining areas in the past and more recently in Los Angeles, South Bay and Orange County.

### **Specific Administrative Responsibilities**

QAPI Committee, Pediatrics, NY 2011-Aug2012

QAPI Committee, Transplant Institute, NY 2003-2012

Pharmacy and Therapeutics Committee, NY 2004-2010

QAPI Transplant Committee, CHLA, 2013-Sep2016

Clinical Competency Committee, CHLA 2014-Sep 2016

### **E. Society Memberships**

American Association for the Study of Liver Diseases 2004-present

International Pediatric Transplantation Society 2004 - present

American Society of Transplantation 2005 - present

American Society of Transplant Surgeons 2005 - present

North American Society of Pediatric Gastroenterology, Hepatology & Nutrition 2005 – present

American Pediatric Society 2014 - present

### **F. Service**

#### **Professional organizations**

P&P Committee, Studies of Pediatric Liver Transplantation (SPLIT) 2010-present

Special Interest Group in Pediatric Hepatology, American Association of the Study of liver disease, 2008 – present

AST Pediatric Community of Practice, 2008-present

AST Transition work group 2012-present

Hepatology Committee NASPGHAN, Aug 2015 – present

SPLIT Research Committee Dec 2015-present

#### **NIH study section**

Special Emphasis Panel Review Meeting for the P30 applications submitted in response to RFA-DK-08-002 (Silvio O. Conte Digestive Diseases Research Core Centers). April 2009.

#### **Journal reviewer**

Journal of Pediatric Gastroenterology, Hepatology and Nutrition  
 Journal of Pediatrics  
 Hepatology  
 Liver Transplantation  
 Pediatric Transplantation  
 Transplantation  
 American Journal of Gastroenterology  
 Clinical Gastroenterology and Hepatology

### **Other**

Co-Chair: Concurrent Session Liver; NASPGHAN Annual meeting, Las Vegas, 11/4/2017  
 Co-Chair: AASLD/NASPGHAN Pediatric Symposium; Washington DC, 10/20/2017  
 Chair Sunrise symposium at American Transplant Congress on Long Term View of Pediatric Liver Transplantation; San Diego, 5/4/2010  
 Course co-Director: Annual Pediatric Liver/Liver Transplantation symposium, Mount Sinai, New York April 2008  
 Course Faculty Panel member for an interactive symposium on 'The challenge in Hepatitis management' 48<sup>th</sup> Interscience conference on antimicrobial agents and chemotherapy. (ICAAC)/Infectious diseases society of America (IDSA) 46<sup>th</sup> annual meeting. October 2008.  
 Mount Sinai Hepatology Update, Science in the Cities New York, 2008 -2011.  
 Annual Pediatric Liver/Liver Transplantation symposium, Mount Sinai, New York: 2003-2005

### **G. Research Activities**

#### **Areas of Research Interest**

Autoimmune liver disease, Cholestasis  
 Transplant immunology and Liver fibrosis

### **H. Research Activities while at Children's Hospital of Los Angeles (2012-2016)**

5U01 DK084538

Childhood Liver Disease Research and Education Network (**ChiLDReN**)

National Institute of Digestive Disease and Kidney

#### **PROBE**

A Prospective Database of Infants with cholestasis –PROBE

Role: Co Investigator

Sponsor NIDDK

#### **BASIC**

Biliary Atresia Study in Infants and Children (BASIC)

Role: Co Investigator

Sponsor NIDDK

#### **LOGIC**

Longitudinal Study of Genetic Cause of Intrahepatic Cholestasis (LOGIC)

Role: Co Investigator

Sponsor NIDDK

**PRIME**

A Phase I/II a Trial of Intravenous Immunoglobulin (IVIG) Therapy Following Portoenterostomy in Infants with Biliary Atresia (PRIME)

Role: Co Investigator

Sponsor NIDDK

**ITCH**

The evaluation of the intestinal bile acid transport (IBAT) inhibitor LUM001 in the reduction of pruritus in alagille syndrome, a cholestatic liver disease

Role: Principal Investigator

Sponsor NIDDK

**IMAGINE II**

A multicenter extension study to evaluate the long-term safety and durability of the therapeutic effect of LUM001, an apical sodium dependent bile acid transporter inhibitor (ASBTi), in the treatment of cholestatic liver disease in pediatric subjects with alagille syndrome

Role: Principal Investigator

Sponsor NIDDK

**INDIGO**

Indigo Study- open label study of the efficacy and long term safety of LUM001, an apical sodium-dependent bile acid transporter inhibitor (ASBTi), in the treatment of cholestatic liver disease in pediatric patients with progressive familial intrahepatic cholestasis

Role: Principal Investigator

Sponsor Lumena

**WUPPSC**

Ursodeoxycholic Acid Therapy in Pediatric Primary Sclerosing Cholangitis: A Pilot Withdrawal/Reinstitution Trial FDA. The goal of this study is to withdraw and reinstitute UDCA in pediatric PSC patients to collect data to support the design of a larger, longer-term randomized, placebo-controlled trial of UDCA therapy in childhood PSC. In addition to liver biochemical markers, biomarkers for liver and biliary inflammation will also be examined.

Role: Principal Investigator

Sponsor FDA

**SPLIT—Studies of Pediatric Liver Transplant**

The goal of this study is to collect information on children who have or who need liver transplantation

Role: Principal Investigator

Sponsor: Institution CHLA

**Study ID: Bay 86-4873/16078**

Open-label, multi-center study to evaluate the safety, efficacy, and plasma gadolinium concentrations after an intravenous injection of 0.1 mL/kg body weight Eovist/Primovist for enhanced magnetic resonance imaging of the liver in children 0 to 2 months of age

Role: Co Investigator

Sponsor: Bayer HealthCare

**GS-US-334-1112 Pediatric HCV Trial**

A Phase2, Open-Label, Multicenter, Multi-cohort, Single-Arm Study to investigate the Safety and Efficacy of Sofosbuvir + Ribavirin in Adolescents and Children with Genotype 2 or 3 Chronic HCV infection

Role: Co Investigator

**GS-US337-1166: LDV/SOF FDC in Pediatric Patients with Chronic HCV**

A Phase 2, Open-Label, Multicenter, Multi-cohort Study to Investigate the Safety and Efficacy of Ledipasvir/Sofosbuvir Fixed Dose Combination in Adolescents and Children with Chronic HCV-infection

Role: Co-Investigator

**Completed Research Support while at Mount Sinai, New York and CHLA**

2U01DK062445-10

(12/01/10-9/30/12))

**CHILDREN** - Childhood Liver Disease Research and Education Network (NIH/NIDDK)

The goal is to study causes of neonatal cholestasis, provide means of diagnosis of genetic disorders, and improve outcome by suitable interventions when feasible.

Grant Award: \$1,615,416

Role: PI

Effort: 10%

2 U01 DK061731

(12/01/10-09/30/12)

Nonalcoholic Fatty Liver Disease (NAFLD) Pediatric Database2  
(NIH/NIDDK)

The goal is to study adult and pediatric aspects of non alcoholic fatty liver disease, understand the pathophysiology, improve diagnosis, management and outcome in this group of patients. Enrollment has been completed at our site – Study since November 2011 is follow-up phase only at our site.

Grant Award: \$156,808

Role: PI

Effort: 1%

10-0698 BMS A1463-189

(6/29/11 – 9/30/12)

The goal of this study is to evaluate the safety and efficacy of entecavir versus placebo in children with chronic hepatitis B and also perform pharmacokinetic studies.

Grant Award: \$214,620

Role: PI

Effort: 5%

07-0373 BMS AI463028

(4/17/07- 9/30/12)

The goal of this study is to evaluate the safety and efficacy of using antiviral medication Entecavir in children with chronic hepatitis B. Study completed and in follow-up phase

Grant Award: \$123,050

Role: PI

Effort: 1%

04-0874 PE Schering Plough P02538

(2/1/05-9/30/12)

The goal of this study is (i) to assess the safety, efficacy and tolerability of combination therapy with pegylated Interferon and Ribavirin in children with chronic hepatitis C (ii) to follow-up study subjects for 5 years to monitor growth, development and other parameters.

Grant Award: \$115,025

Role: PI

Effort: 1%

11-0401

(12/21/04- 9/30/12) **SPLIT—Studies of**

**Pediatric Liver Transplant** The goal of this study is to collect information on children who have or who need liver transplantation

Grant Award: \$22,908

Role: PI

Effort: 1%

1R01DK080740-01A209 Shemesh (PI)

(9/20/09-9/30/12)

**MALT - Medication Adherence in Children Who Had a Liver Transplant.** This multi-site trial is examining a novel way to measure adherence to medications (using the standard deviation of medication blood levels) in pediatric liver transplant recipients.

Grant Award: \$2,175,036

Role: Co-I

Effort: 1%

10-0036

(2/23/11 – 9/30/12)

Ursodeoxycholic Acid Therapy in Pediatric Primary Sclerosing Cholangitis: A Pilot

Withdrawal/Reinstitution Trial The goal of this study is to withdraw and reinstitute UDCA in pediatric PSC patients to collect data to support the design of a larger, longer-term randomized, placebo-controlled trial of UDCA therapy in childhood PSC. In addition to liver biochemical markers, biomarkers for liver and biliary inflammation will also be examined.

Grant Award: \$10,882

Role: PI

Effort: 2%

Gilead GS-US-103-0518

(7/25/04- 6/28/09)

The goal was to assess the safety and efficacy of Adefovir in children with chronic hepatitis B

Grant Award: \$32,500

Role: PI

Effort: 5%

03-0202-SU NIH/U of Tx Southwestern ALF-NAC (peds)

(9/01/04-09/2/09)

The goal was to study of the safety & efficacy of N-acetylcysteine in the treatment of acute liver failure not caused by acetaminophen in pediatric patients

Grant Award: \$108,000

Role: PI

Effort: 5%

99-0831-PE (0001) NIH subcontract from Pittsburg

(9/27/04-8/31/10) Pediatric Acute Liver

Failure Study Group (Registry & blood samples)

The goal of this study is to obtain information and blood samples from children presenting with acute liver failure, to understand the etiology, clinical course, management and outcome of liver failure in children.

Grant Award: \$29,934

Role: PI, Effort: 5%

**CRAD001H2305 – Everolimus in Pediatric liver transplant**

A 24-month , multi-center, single arm, prospective study to evaluate renal function, efficacy, safety and tolerability of everolimus in combination with reduced exposure cyclosporine or tacrolimus in paediatric liver transplant recipients

Effective Approval Date: 6/1/2014

Expiration Date: 5/31/2015

Role: Principal Investigator

Sponsor Novartis

**Synageva LAL Deficiency Study**

A study to identify the frequency of lysosomal acid lipase deficiency in at-risk patient populations

Effective Approval Date: 3/20/2015

Expiration Date: 3/19/2016

Role: Principal Investigator

**I. Invited Lectures**

**International**

1. Post-transplant Autoimmune hepatitis. EASL Monothematic Conference on Autoimmunity, London, UK; Sep 5<sup>th</sup> 2015
2. "Autoimmune Hepatitis Diagnosis and Treatment" Telelecture to Panama Physicians, Lopez Family Foundation, Children's Hospital Los Angeles, April 21, 2015
3. Liver Transplantation in Children, Mazumdar Shaw Multispecialty Hospital, Narayana Health, Bangalore, India, Dec 2014
3. Argentine Association for Enteral and Parenteral Nutrition Annual Meeting, Buenos Aires, Argentina, May 2007: "NAFLD in Pediatric Obesity"
4. Prague Hepatology Conference, Prague, Sep 2006: "Current Trends in Pediatric Liver Transplantation"
5. Annual Meeting of European Society of Paediatric Gastroenterology, Hepatology and Nutrition (ESPGHAN), Warsaw, Poland 1999: Lecture Symposium: New Insight in Autoimmune Liver Disease, "Post Orthotopic Liver Transplantation Autoimmune Hepatitis"
6. Annual Conference of the Indian Society of Gastroenterology Pune, India, 1998: Guest Lecture: "Spectrum of autoimmune liver disease in children"

**National**

1. ICU Care for the Transplant Recipient: Post Graduate Course 1, ICU Care for the Transplant Recipient, International Pediatric Association (IPTA), San Francisco, March 28, 2015

Grand Rounds (listed by lecture title)

1. "Portal Hypertension in children"; Upstate Gut Club, Glen Sanders Mansion in Scotia, NY
2. "Viral Hepatitis in Children" Morristown Medical Center, New Jersey, New York Feb 2012
3. "Current Trends in Pediatric Liver Transplantation"
  - Staten Island University Hospital, October 2006
  - Brookdale Hospital Medical Center, December 2006
  - Long Island College Hospital, October 2007
  - Metropolitan Hospital Center, New York, May 2008
  - Brookdale hospital Medical Center, May 2008
  - Queens Hospital Center, New York, Sep 2008
  - Elmhurst Hospital, New York, April 2009
4. "Nonalcoholic Fatty Liver Disease in Children"
  - Staten Island University Hospital, May 2004

- Long Island College Hospital, New York, June 2005
- Queens Hospital Center, New York, Feb 2005
- Goevernur Hospital, New York, Sep 2005
- Long Island College Hospital, April 2009
- St Luke, Rossevelt Hospital, New York, March 2009
- Metropolitan Hospital Center, New York, Sep 2009
- Schneider Children’s Hospital, North shore-LIJ, Feb 2010
- Good Samaritan Hospital, Long Island, New York, October 2011
- 5. “Autoimmune Hepatitis in Children”
  - Metropolitan Hospital Center, New York, October 2004
  - Long island Jewish Hospital, New York, October 2010
  - Metropolitan Hospital Center, New York, Jan 2011
- 6. “Hepatitis B in Children”
  - North-Shore LIJ October 2009
- 7. “Approach to Neonatal Cholestasis”
  - University Hospital, Syracuse April 2009
  - Overlook Hospital, Summit, New Jersey, April 2011
  - Albany Medical Center, April 2011
  - Mount Sinai, Queens, May 2011
  - Long Island Jewish Hospital, August 2011
  - Maimonides Hospital, Brooklyn, New York Jan 2012
  - North Shore LIJ Jan 2012

#### **Local**

1. Nonalcoholic fatty liver disease in Children, Golisano Childrens Hospital, URM, Sep 21, 2017
2. Portal hypertension, Golisano Childrens Hospital, URM; Aug 24, 2017
3. Autoimmune liver disease, Golisano Childrens Hospital, URM; July 27, 2017
4. Liver Transplantation Part 2 : Golisano Childrens Hospital, URM; June 15, 2017
5. Liver transplantation Part 1: Golisano Childrens Hospital, URM; May 14, 2017
6. “Hepatitis C” Children’s Hospital Los Angeles, Los Angeles, January 14, 2013
7. “Portal Hypertension” Children’s Hospital Los Angeles, Los Angeles, April 15, 2013
8. “Liver Transplantation” Children’s Hospital Los Angeles, Los Angeles, September 3, 2013
9. “AASLD Liver topics ”Children’s Hospital Los Angeles, Los Angeles, November 19, 2013
10. “Liver Failure” Children’s Hospital Los Angeles, Los Angeles, May, 2014
11. “Hepatitis hot Topic: Pediatric Liver Disease in Adults” Southern California Society of Gastroenterology, Laguna Niguel, June 29, 2014
12. “Hepatitis Hot topics: Panel Discussion” Southern California Society of Gastroenterology, June 29, 2014
13. “Cholestasis” Children’s Hospital Los Angeles, Los Angeles, July 20, 2015
14. “Liver Transplantation” Children’s Hospital Los Angeles, Los Angeles, August 8, 2015
15. “Liver and Intestinal Transplant Overview” Children’s Hospital Los Angeles, November 2, 2015
16. Nonalcoholic Fatty liver disease- a growing problem – CME for Community Pediatricians at Torrance, CA, March 23<sup>rd</sup> 2016
17. Acute liver failure- Didactic lecture for nurses Children’s hospital of Los Angeles, March 30<sup>th</sup> 2016

**Bibliography****Peer Reviewed**

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5. **Kerkar N**, Ma Y, Davies T, Cheeseman P, Williams R, Mieli-Vergani G and Vergani D. Detection of liver kidney microsomal type 1 antibody using molecularly based immunoassays. *Journal of Clinical Pathology*, 2002; 55:906-909.
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### Abstracts

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61. Golden J, Zagary J, Fu X, Nguyen M, Dossa A, Dietz W, Roberts A, **Kerkar N**, Xiao Y, Wang KS and Gayer C. # 82 Oral presentation AASLD Boston 2016, Hepatology October 2016, Vol 64, Supplement 1

## Chapters

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8. **Kerkar N**. Epidemiology and natural history of hepatitis C in children. Clinical Gastroenterology Series editor G Wu. Viral hepatitis in children, unique features and opportunities, Editor Jonas M, Springer publications.2010: 55-66.
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### Miscellany

#### Editorials, Letters to Editor and Reviews

1. **Kerkar, N**, Yanni, G,; De novo and recurrent autoimmune hepatitis after liver transplantation: A comprehensive review. *Journal of Autoimmunity* 2015 Sep 13.
2. **Wang, K**; Section on surgery; Committee on Fetus and Newborn; **Childhood Liver Disease Research Network (Kerkar, N**, Karpen, SJ, Sokol RJ, Schwarz KB, Mogul DB, Harpavat, S. Newborn Screening for Biliary Atresia. *Pediatrics* 2015 Dec; 136(6) e1663-9.
3. Regelman MO, Greig F, **Kerkar N**, Rapaport R. *Risk factors for medication-induced diabetes mellitus.* *J Pediatr.* 2012 Feb;160(2):355. PMID: 22240046
4. Miloh T, **Kerkar N**. Sclerosing Cholangitis: pediatric perspective. *Current Gastroenterology Reports* 2010, 12 (3) :195-202.
5. Shemesh E, Annunziato R, Arnon R, Miloh T and **Kerkar N**. Adherence to medical recommendations and transition to adult services in pediatric transplant recipients. *Current Opinion in Organ Transplantation* 2010: (15) 288-292.
6. **Kerkar N**, Shneider B. Evolving approaches to the treatment of Hepatitis B virus infection in children. *Editorial J. Clin. Gastroenterol* 2005 39: 7-9
7. **Kerkar N**. Evaluating the AIH scoring system – Selected Summary. *Journal of Pediatric Gastroenterology and Nutrition* 2005: 137-138.
8. **Kerkar N**. Hepatitis B in Children: complexities in management *Pediatric Transplantation* 2005: 673-679
9. **Kerkar N**. Non-alcoholic steatohepatitis in children. *Pediatric Transplantation* 2004 325 (8): 613-618.
10. **Kerkar N.**, Danialifar, T. Changing definitions of successful outcomes in pediatric liver transplantation: *Curr Opin Organ Transplant* 2014, (5) 19:480-485.

**Book:** Clinical and Translation Perspectives in Wilson Disease: eds; Nanda Kerkar and Eve Roberts , Elsevier Publications – *slated for publication in 2018*

#### Presentations

##### Poster Presentations

- Listed Abstracts published in Hepatology: presented at the Annual Meeting of the American Association of the Study of Liver Disease (AASLD).
- Listed Abstracts published in American Journal of Transplantation: presented at the Annual American Transplant Congress (ATC).
- Listed abstracts in Journal of Gastroenterology and Pediatric Gastroenterology Hepatology & Nutrition: presented at Digestive Disease Meeting (DDW) and North American Society of Pediatric Gastroenterology and Hepatology (NASPGHAN) respectively.

Listed abstracts before 2002 were presented at the annual meetings of the European Society of Pediatric Gastroenterology Hepatology and Nutrition (ESPGHAN); European Association of the Study of Liver and British pediatric Association(EASL).

Other

Education Materials

Compilation of a list of drugs with doses used in pediatric hepatology that are not available in standard sources. List has now been made available via the hospital web-site as a tool for physicians and nurse practitioners (2007).

Establishing and updating protocols used in the pediatric liver transplant program (2005-2009, 2012-2015, 2017-current).

CHLA Blue book Gastroenterology Section Faculty co-editor– 2014-2015, 2015-2016, 2016-2017