Perspectives on HPN Through Past Decades and into the Future

ASPEN Symposium: Saturday, March 26, 2022
1:30pm – 3:30pm PST
Washington State Convention Center, Room 6C

1:30pm – 1:35pm Welcome and brief introduction to the late Gisela Barnadas, RD, MS, LD; Marcia Boatwright, RN, CRNI; Melinda Parker, MS, RD, CNSC; and Doug Seidner, MD, AGAF, FACG, FASPEN, CNSC – Darlene Kelly, MD, PhD

1:35pm – 1:55pm A Walk Through the History of HPN to Today. A Conversation with Ann Michalek, MD, and Charlene Compher, PhD, RD, FADA, CNSC, LDN

1:55pm – 2:25pm Current Practices/Approaches. Improving Outcomes in Intestinal Failure Through Clinician Education: Lessons from LIFT-ECHO - Kishore Iyer, MBBS, FRCS, FACS; Quality of Life after Transplantation - Debra Sudan, MD

2:25pm – 3:05pm Advances for Future Treatment of SBS. Innovative Devices and Pharmacologic Strategies to Assist in Weaning from PN and Preventing Hepatic Complications – Mark Puder, MD; Emerging Results from Next-Generation Pro-Adaptive Hormones in Pipeline - Palle Jeppesen, MD, PhD

3:05pm – 3:15pm 44 Years Living on HPN…and Still Counting! Lee Levknecht

3:15pm – 3:30pm Summary/Discussion – Manpreet Mundi, MD

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Meet our Speakers

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Charlene W. Compher, PhD, RD, LDN, FASPEN

Dr. Compher is a Professor of Nutrition Science at the University of Pennsylvania. She has worked with patients requiring home parenteral nutrition for the past 25 years. She values the rich history of the development of home PN from the beginning to current days. She’s a former President of ASPEN and a member of the ASPEN Rhoads Research Foundation.

Kishore Iyer, MBBS, FRCS, FACS

Director, Adult and Pediatric Intestinal Rehabilitation & Transplantation
Mount Sinai Medical Center
Surgical Director, Pediatric Liver Transplantation
Professor of Transplant Surgery and Pediatrics
Icahn School of Medicine
Mount Sinai
New York, New York

Dr. Iyer trained in general surgery and pediatric surgery in the UK, where he worked with Dr. Adrian Bianchi and developed his early interest in short bowel syndrome and the use of intestinal lengthening procedures. He pursued research at the Great Ormond Street Hospital for Sick Children in London, winning the 1996 British Association of Pediatric Surgeons Prize for his pioneering work identifying phytosterols in soy-based lipid emulsions as a potential cause for parenteral nutrition–associated liver disease in patients with intestinal failure.

Dr. Iyer trained in transplant surgery at Chicago and Omaha, working as a liver and intestinal transplant surgeon at Omaha for almost four years. He was responsible for establishing and directing the intestinal rehabilitation program, the first of its kind nationally, in Omaha, before moving to Chicago to establish and direct the intestinal transplantation and rehabilitation program at Northwestern University/Children’s Memorial Hospital.

He is a past member of the Oley Foundation Board of Trustees.

His current clinical and research interests are in the areas of surgical management of intestinal failure, intestinal transplant, and parenteral nutrition–associated liver disease, as well as in addressing disparities in intestinal failure through clinician education. He has published and lectured extensively in these areas.

When not involved with intestinal failure, he follows a very eclectic taste in music and remains an avid motorcyclist.
Palle Bekker Jeppesen MD, DMsc, PhD
Rigshospitalet
Department of Intestinal Failure and Liver Diseases,
Clinical Professor,
Department of Clinical Medicine,
Faculty of Health and Medical Sciences,
University of Copenhagen, Denmark.
Affiliate Professor,
Department of Nutrition, Exercise and Sports
Unit for Clinical and Experimental Nutrition,
University of Copenhagen, Denmark

Palle Bekker Jeppesen is Head of the Department of Intestinal failure and Liver Diseases at Rigshospitalet in Copenhagen; Clinical Professor at Department of Clinical Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Denmark; and he is also an Affiliate Professor in the Department of Nutrition, Exercise and Sports at the unit for Clinical and Experimental Nutrition, University of Copenhagen. His major research interests include patients with short bowel syndrome and intestinal failure with a recent focus on novel therapies for their management, rehabilitation and care.

Professor Jeppesen graduated in medicine from the University of Copenhagen, Denmark, in 1989 and completed his residency in medical gastroenterology at the Rigshospitalet in Copenhagen. He completed his PhD thesis, entitled The significance of the fatty acid chain-length for the clinical effect in the enteral and parenteral nutrition in patients with malabsorption in 1998 and his Doctor’s Degree, entitled Intestinal insufficiency and failure, in 2003.

PBJ has published more than 150 peer-reviewed papers and book chapters within this field, has more than 4000 citations and an H index of above 40.

Darlene Kelly, MD, PhD
Science & Medicine Advisor
Rochester, Minnesota

After retiring from her twenty-two-year role as Medical Director for the Home Parenteral Nutrition program at the Mayo Clinic in Rochester, Minnesota, in 2012, Dr. Kelly was appointed to the Oley Foundation staff where she has actively guided research projects and provided advice on medical-related content for publications. Previously she supported Oley as a board member and research committee chair for more than eleven years. She has a doctorate in nutrition, and a medical doctorate with a residency in internal medicine and a fellowship in gastroenterology and GI research. Her areas of interest include: HPN, short bowel syndrome, and malabsorption.
Lee Levknecht
HPN Consumer

Lee’s life with HPN began when he was diagnosed with Crohn’s disease in January 1969. He was finishing his last year at the University of Montana. He weighed 205 lbs. When he finished his student teaching in the spring, he was down to 150 lbs. His health deteriorated to a point where he had to cancel his first teaching contract.

For the next nine years, Lee averaged one surgery about every three years. First, a section of small bowel was removed, then an ileostomy was performed, and lastly, he had surgery on a stomach that was ready to perforate. In December 1977, he ended up in the hospital dehydrated, at a weight of 105 lbs. Lee says, “It was a bleak time in my life. I did not see improvement as a possibility. Then a special blessing occurred. I received a visit from a gastroenterologist that had just transferred from the Mayo Clinic. He shared with me about a new program that would feed me intravenously.” Within a week, Lee had a central venous catheter surgically placed to receive this IV nutrition. Lee says he could feel a change in his body even when he first woke up from surgery, laying in the recovery room: “I felt strength and energy again. I was extremely grateful for this renewal of life.”

For the next twenty years, Lee’s “daily feedings” allowed him to coach baseball and basketball. As a result of the Disability Act of 1990, he returned to school and earned an MSED in School Counseling. He recently retired after twenty-two years working with elementary students. Lee stays physically active with biking, golf, cross-country skiing, and tennis. He is also involved with ministries for the cognitively disabled, nursing home residents, and youth from his church. He and his wife, Jane, have been married for fifteen years (2016).

Ann Michalek, MD
Albany Medical Center
Albany, New York

Dr. Michalek specializes in clinical nutrition at Albany Medical Center. She completed her fellowship with Oley’s co-founder, Lyn Howard, MD, and assumed responsibility for many of Dr. Howard’s patient’s when Dr. Howard retired in 2007.

Manpreet S. Mundi, MD
Physician, Division of Endocrinology, Metabolism, Diabetes, and Nutrition
Associate Professor of Medicine
Mayo Clinic
Rochester, Minnesota

Dr. Mundi graduated cum laude from the University of California, San Diego, with a double major in psychology and chemistry. He obtained a Medical Doctorate from the Keck School of Medicine at the University of Southern California. Dr. Mundi completed a residency program in internal medicine followed by a fellowship in endocrinology at the Los Angeles County–University of Southern California Medical Center. After completing his fellowship, he joined the Mayo Clinic Division of Endocrinology as a National Institutes of Health (NIH) training grant fellow with a research focus in fatty acid metabolism and obesity. Dr. Mundi subsequently joined the clinical staff at Mayo Clinic as a consultant in the Division of Endocrinology nutrition core group.
Dr. Mundi’s clinical focus is malnutrition, as well as nutrition support in home and inpatient settings. Dr. Mundi is Professor of Medicine and holds the leadership positions of Inpatient Nutrition Core Group Chair and Chair of Mayo Clinic Food Services, and he is currently on the board of the Oley Foundation. He is also the medical director of the Home Enteral Nutrition Program and the associate program director of the Home Parenteral and Enteral Nutrition Program as well as medical director of Clinical Nutrition.

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Mark Puder M.D., PhD is Professor of Surgery at Harvard Medical School and holds the William E. Ladd Chair at Boston Children’s Hospital. He is a leading expert in the field of fatty acid metabolism as it relates to hepatic disease in children and in angiogenesis as it relates to lung growth. The primary work in his laboratory is the study of parenteral nutrition and its toxic effects on the liver. Through a variety of laboratory investigations within the Puder lab, several approaches for prevention of the liver injury have emerged. One therapy involves the replacement of the lipid emulsion with a second less toxic emulsion that is based on omega 3 fatty acids. This was made available for compassionate use by the FDA to over 300 patients at Boston Children’s Hospital and has received FDA approval. This has reduced the mortality from this disease at Boston Children’s hospital and is now being used in over 100 institutions in the United States and now worldwide. Prior to its use, the main treatment for this fatal complication was extreme lipid reduction, liver or multivisceral transplants. Dr. Puder received his MD from Vanderbilt University and his PhD from Harvard University. He trained in Pediatrics at Yale New Haven, completed his surgical residency at Beth Israel Deaconess Hospital and Pediatric Surgery Fellowship at Boston Children’s Hospital. He completed his postdoctoral fellowship under Dr. Judah Folkman. He has won the Jacobson award from the American college of Surgeons and the Stanly Dudrick Research Award from the American Society for Parenteral and Enteral Nutrition as well as several teaching awards from Harvard Medical School.

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<td>Chief, Division of Abdominal Transplant Surgery Professor of Surgery</td>
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Dr. Sudan chose medicine as her career because it was the perfect way to combine her love of learning and being challenged with her desire to make a positive difference in people’s lives. During Dr. Sudan’s general surgery residency, she gravitated toward transplantation because of the immediate and profound impact it can have on someone’s health and quality of life. After completing a transplant fellowship at the University of Nebraska, she practiced surgery in Omaha, Nebraska for 14 years before coming to Duke to become the Surgical Director of the nationally renowned transplant program. As an abdominal transplant surgeon, Dr. Sudan performs surgery on people of all ages needing organ transplantation, with particular expertise in the areas of liver and small bowel transplants. In 2021 she was named a Master Surgeon by her colleagues at Duke University and the first female to receive this prestigious award. Her research focuses on improving intestine graft preservation in order to improve the early outcomes for intestine transplant recipients. She hopes that her work will improve opportunities for intestine transplant candidates with life-threatening complications of their disease or of their TPN and for those who have a poor quality of life on TPN to undergo successful intestine transplantation.