



Welcome to another edition of **iPEN**. Our first for 2020



Dr Theodoric Wong

My name is Theodoric Wong and I am the Acting Chair of ICNS.

I would first like to thank retiring chairman **Stanislaw Klek** for his

contributions to ICNS over the past few years. His dedication to advancing nutritional care in surgical patients both in his home country and around the world has earned him much respect in the international community. He was also the organiser and host for the ESPEN congress last year in Poland, which was a tremendous achievement.



Theo Wong (right) with Dr Dudrick (centre) and Gil Hardy (left) at ASPEN 2019

We are all saddened by the loss of **Professor Stanley Dudrick, MD**, the father of parenteral nutrition. His work has impacted on patients' lives in the last 50 years and will continue to make a tremendous difference in decades to come. He was not only a fantastic clinician but also a much

revered mentor as he took the time to foster health care professionals all around the world. We were delighted and privileged that Dr Stanley and his wife Terri, joined our ICNS party as honoured guests at last year's ASPEN congress. He has truly been an inspiration and will be sadly missed but never forgotten.

Subject to further developments in the COVID-19 pandemic, there are a number of **international nutrition/ intestinal failure conferences** which are coming up in 2020. The **World Congress for Paediatric Gastroenterology, Hepatology and Nutrition** will be held in Copenhagen from the 3–6 June. The **International Paediatric Intestinal Failure and Rehabilitation Symposium** will be held in Toronto from the 26–28 June. **ESPEN** will be in Lyon from 19–22 September and **PENSA** will be in Bangkok from the 29–31 October.

Recent important publications include the **UK NICE Neonatal Parenteral Nutrition guidelines 2020**. The neonatal group of patients are vulnerable when it comes to malnutrition. NICE has published its recommendations to clarify a number of areas regarding provision of PN, including indications, venous access, light

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protection, macronutrient provisions and their ratios, calcium and phosphate provision and their ratios, standard bags, monitoring, service design as well as information for parents and carers. See page 13.

In the light of the recent **cancellation of ASPEN20 conference**, ICNS will be holding a virtual Section Forum and AGM later in April. Sadly none of us will be able to participate in our annual social party, which promised to be great fun, and **we are indebted to Medtrition for their sponsorship**. Despite all the concerns about the COVID-19 pandemic, feel free to celebrate our international friendships and collaborations in your own way in your own country.

Dr Theo Wong
Acting Chair of ICNS

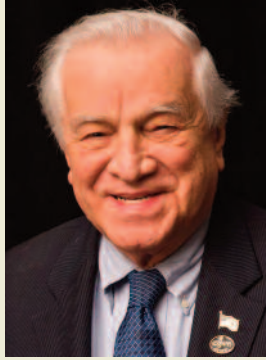
“On the shoulders of Giants”

A number of our much loved exceptional leaders in clinical nutrition around the world recently passed away and will be greatly missed. They include, **Dr**

Stanley Dudrick, first President of ASPEN, in USA, **Dr Josef Patiño**, pioneer in Colombia and Latin America, **Professor John Lennard-Jones**, first President of

BAPEN, in UK, **Dr Coluthur Gopalan**, Indian government advisor. See pages 2–4 for *Tributes and Obituaries: To Nutrition Giants* for these remarkable men.

Tributes and Obituaries: To Nutrition Giants



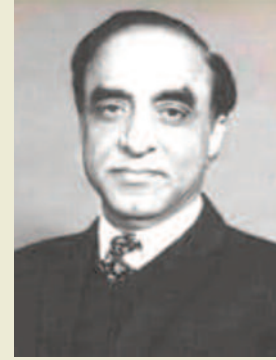
Dr Stanley Dudrick



Dr Josef Patiño



Professor John Lennard-Jones



Dr Coluthur Gopalan

Each of these great men of science and medicine were innovators and were responsible throughout their careers for advancing the science and practice of nutrition. They influenced other health professionals, not only in their own countries but by their dedication and the high standards they established for all of us in the international community to follow.

Dr Stanley J. Dudrick

Two years ago, in issue 2 of **JPEN** in 2017, we published a Tribute to Dr Dudrick, written by **ICNS Chairman, Prof. Stanislaw Klek** and immediate **Past Chairman, Prof. Gil Hardy**, on the occasion of his receiving the first **Life Time Membership of ASPEN**. We ended our tribute with a quotation from one of Dr Dudrick's seminal publications *"Intravenous feeding promises to be a powerful tool for basic investigations in biochemistry, pharmacology and nutrition. The role of hormones, amino acids, vitamins, minerals and fatty acids can be studied in animals and in man under conditions of control formerly unattainable. The degree to which immune mechanisms can be altered by intravenous diets of selected amino acids may be significant in facilitating successful tissue transplants. Most potential applications of intravenous feeding remain to be explored."*

We are both proud to have known Dr Stan for many years and to have been invited to contribute to the ASPEN Tribute to Our First President and Founding Father, collated by **JPEN Editor in Chief, Dr Kelly Tappenden**, co-authored by many past presidents and other ASPEN VIP which has been published in *JPEN* 2020: 44;159–171s.

Extracts of eulogies for Dr Dudrick by his friends and colleagues, include:

"With the passing of Dr Dudrick, medicine has lost one of its most inspirational leaders," said **ASPEN President, Lingtak-Neander Chan, PharmD**. *"Dr Dudrick's legacy goes far beyond his pioneering research. While he continued as the seminal scientist in the development of PN, throughout his life he also chaired the surgery department at 4 institutions, authored textbooks and hundreds of journal articles, and taught and mentored countless physicians and other healthcare providers. Dr Dudrick will be remembered as a healer and visionary, whose kindness has deeply touched many people, and whose achievements have changed the lives of many."*

"Dr Dudrick truly nourished other medical and healthcare professionals. He always found the time to meet with physicians, scientists, clinicians, and students from around the world to answer questions about his research and nutrition. ASPEN's archives are filled with letters of appreciation – and wonder – at his generosity, knowledge, and compassion," said **Marion Winkler, PhD, RD, President of the ASPEN Rhoads Research Foundation and ASPEN's 30th president**.

"ASPEN's interdisciplinary membership and approach reflect one of the principles that guided Dr Dudrick's life and marked his brilliant and life-changing career," said **ASPEN's 8th president, Ezra Steiger, MD**. *"He practiced collaboration from the earliest days of his research when he reached out to other physician specialists, basic scientists, pharmacists, nurses, dietitians, and medical suppliers."*

"Our condolences go out to Dr Dudrick's family and friends. Our thoughts are with his wife Terri (Theresa), who had been at his side since medical school and to his six children – Susan Marie, Stanley Jonathan, Holly Anne, Paul Stanley, Carolyn Mary, and Anne Theresa – who shared their father with laboratory experiments, patients, and medical students," said **ASPEN Chief Executive Officer, Wanda Johnson**.

<p>Obituary</p> <p>Tributes to Our First President and Founding Father, Stanley J. Dudrick, MD, FACS, FASPEN</p> <p>Kelly A. Tappenden, PhD, RD¹; Stanley J. Dudrick Jr; Lingtak-Neander Chan, PharmD²; John M. Daly, MD³; Ezra Steiger, MD⁴; Albert Barrocas, MD⁵; Charlene Compher, PhD, RD⁶; Marion F. Winkler, PhD, RD⁷; Rubén Gustavo Kliger, MD⁸; Jianchun Yu, MD, PhD⁹; Stanislaw Klek, MD, PhD¹⁰; Gil Hardy, PhD¹¹; Jose M. Pimiento, MD¹²; Joan Bishop¹³; Bettemarie Bond, OT; and Emma M. Tillman, PharmD, PhD¹⁴</p>	<p>Journal of Parenteral and Enteral Nutrition Volume 44 Number 2 February 2020 159-171 © 2020 American Society for Parenteral and Enteral Nutrition DOI: 10.1002/jpen.1812 wileyonlinelibrary.com</p> <p>WILEY</p>
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Dr Dudrick with his famous beagle 'Stinky' and one of his first long term HPN patients

José Félix Patiño Restrepo, MD, FACS (Hon)



“For a person who has been fundamentally a teacher all his life, this is the maximum recognition that one can have. This is an academic achievement that has the greatest meaning for me”.

'These were the words in

December 2011, of Dr JFPR, who died in February 2020, when the Ministry of Education awarded him the SB GMO Award (report in *El Espectador*, December 5).

“This is how I would like to be remembered: as a great teacher”. Of so many awards and tributes he received throughout his life, this, delivered by the then president of Colombia, Juan Manuel Santos, was the one that gave him the most satisfaction.

Dr José Félix Patiño Restrepo introduced the concept of clinical nutrition in Colombia and Latin America, becoming the father of parenteral nutrition and nutrition support in this region. However, if we attempted to write down all of his works, contributions, and achievements, we would be short on space.

I want to finish with this phrase that invites study and continuous self-reflection: ***“Nutrition, like surgery, is a profession, not just a job”*** His absence evokes an overwhelming feeling of emptiness that is palpable both in a physical and spiritual sense. Yet, for all of us who had the opportunity to learn from Dr Patiño, we will carry his teachings with

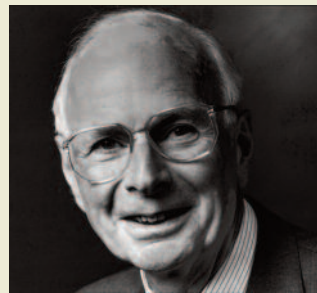
us daily. These teachings will live on in our writings, in our work, and in our constant effort to achieve perfection.



Written by Patricia Savino Lloreda, RD, MBA

[receiving associate membership of the National Academy of Medicine, Colombia from Dr Patiño]

Professor John Lennard-Jones



John Edward Lennard-Jones, first Chairman of the British Association of Parenteral and Enteral Nutrition (BAPEN) was a pioneering English gastroenterologist, known affectionately to his colleagues as “LJ.”

who died in March 2019, aged 92 years.

He was a caring and astute physician, a gentle but inspirational teacher, and a prodigious clinical researcher. Colleagues remember him affectionately as “an egg-head with a total command of the world literature...who was a walking reference base.” and recall that no one who worked with him ever had a bad word to say about him.

John Lennard-Jones began working for the Medical Research Council (MRC) burns unit in Birmingham, and then joined the internationally famous gastroenterologist Sir Francis Avery Jones at London’s Central Middlesex Hospital. Following a stint in research at University College Hospital he returned to the Central Middlesex, where he became a member of the MRC’s Gastroenterology Unit. In 1974 he moved to the London Hospital Medical College, where, three years later, he was awarded a personal chair in gastroenterology. His final clinical appointment was at St Mark’s Hospital as a professor emeritus.

The skill and dedication of John Lennard-Jones contributed greatly to advances in the understanding and treatment of inflammatory bowel disease (IBD). Over the years he grew increasingly aware of the importance of good nutrition to patients with IBD and intestinal failure (IF) and was **one of the first in the UK to establish a high-quality nutritional support team (NST)**, insisting that nurse specialists have a major role in

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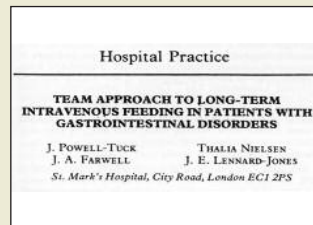
the team. He was also a pioneer in the introduction of home parenteral nutrition (HPN), encouraging **iPEN** editor, Gil Hardy and research fellow **Dr Jeremy Powell-Tuck** to invent the 3 litre PN bag and always giving patients the confidence and the know-how to go home and to manage the PN bags themselves. Prof. Lennard-Jones was a natural choice to chair the King's Fund 1992 working party on the role of enteral and parenteral feeding in hospital and at home that led to the formation of BAPEN in 1992, which he chaired until 1995, when the John Lennard-Jones medal was established in his honour **“For significant and consistent contribution to BAPEN over many years”**.

Colleagues describe LJ as a modest man who lived in a modest way. He had compassion and a huge sense of duty. He was a committed Christian who believed in the value of service to others.



LJ with Susanne Wood, one of his first PN nurses at her retirement

Compiled from official obituaries and tributes by Gil Hardy.



Dr Coluthur Gopalan, MD “The father of Nutrition Sciences in India”



Professor Coluthur Gopalan, a scientist of international eminence, who had spearheaded nutrition science for over four decades in India, passed away in Chennai, India in October 2019. He was the first Asian to be elected the President of the International

Union of Nutrition Sciences (IUNS) and had been on several WHO expert panels.

Professor Gopalan’s professional career in nutrition research started at the Nutrition Research Laboratory (NRL), founded by Dr Robert McCarrison under the British Empire. In the late 1950s, NRL moved to Hyderabad, and Gopalan took over as Director in 1962. The Indian Dietetic Association (IDA) was also founded in 1962 in Kolkata by Prof. Kalyan Bagchi as

Secretary and Dr Gopalan as the first President. He was also actively involved in initiating the Asian Congress of Nutrition.

In 1969 during its Golden Jubilee, NRL was designated as the ‘National Institute of Nutrition’ (NIN) which had been nurtured by Dr Gopalan during the 14 years that he was its Director.

In 1973, Gopalan moved to New Delhi to take over as the Director-General of the Indian Council for Medical Research (ICMR). During his tenure (1974–1979), he promoted research in communicable diseases and modernized several of the ICMR research institutions, initiating a number of nutrition interventions, such as the Integrated Child Development Services (ICDS), the midday meal scheme for school children, vitamin A and Iron supplementation and the goiter prevention programme. Under his direction, over 500 Indian foods were analysed for their Nutritive Values. This work was used for calculating dietary in-take of all nutrients and made India the first developing country to have its own recommended dietary allowances (RDA).

“Gopalan was a visionary institution builder. He viewed medical and nutrition science from a holistic perspective and always wanted to address them taking a multi-disciplinary and multi-sectoral approach. His contributions to medical science in general and nutrition science in particular are immense. He, in fact, brought nutrition to centre stage and was instrumental in putting it as an important driver in developmental plans and policies of the country,” said Balram Bhargava, current director-general of ICMR.

Dr Gopalan retired from government service in 1979, but not from service to the nation. In 1980 he created the Nutrition Foundation of India (NFI), which has a wide interdisciplinary research network in the country, now under the able direction of his son, paediatric gastroenterologist Dr Sarath Gopalan.



Compiled from official obituaries by iPEN editor, Gil Hardy, pictured with Dr Gopalan at ISPEN 2000

★★★ CONGRATULATIONS ★★★

Professor Paul Wischmeyer Receives Esteemed George Blackburn Mentorship Award from ASPEN



Prof. Paul Wischmeyer

The ASPEN Rhoads Research Foundation has named Professor Paul Wischmeyer, MD, EDIC, the 2020

recipient of the **George Blackburn Research Mentorship Award**; the highest award for mentorship that ASPEN bestows.



The late George Blackburn, MD, PhD

This award recognizes career-long exemplary work inspiring, encouraging and challenging the next

generation of nutrition therapy researchers. The award selection committee chose Paul for this award based on his impressive track record of mentoring fellows, residents and others in the area of clinical nutrition and metabolism, which they call “critical to the future of nutrition.”

“I am incredibly honored to receive this award from ASPEN as it recognizes perhaps my greatest passion in my academic medical career – the mentoring and development of the next generation of clinical nutrition scientists who are so desperately needed to carry on the incredible example and legacy that the pillars of our field, like Dr Blackburn, established for us in their illustrious careers,” said Dr Wischmeyer, adding *“I look forward to the opportunity to honor Dr Blackburn’s legacy by continuing to train the next generation of nutrition-scientists who continue to improve the care of patients worldwide.”*

Paul Wischmeyer is Professor of anesthesiology/critical care medicine and associate vice chair for clinical research within Duke Anesthesiology. He also serves as the director of the PN/Nutrition Support Team at Duke University Hospital in Durham, North Carolina USA. **Paul was due to receive the award at the Rhoades Celebration of Research Reception and to be guest speaker at the ICNS Section Forum during the ASPEN 20 congress at the end of March.**

Professor Ana Maria Menendez receives recognition as a fellow of ASPEN (FASPEN)

Ana Maria is the **Founder and Executive Director** for the



Prof. Ana Maria Menendez

Instituto Argentino de Educación Investigación en Nutrición – IAEDIN, since 2006 and **Scientific Coordinator**

for Interdisciplinary Courses of post graduate Enteral and Parenteral Nutrition. Drug and Nutrient interactions in the Pharmacy and Biochemistry College, Buenos Aires University – UBA and a recognized expert in trace elements in clinical nutrition.

Dra Vanessa Fuchs



Dra Vanessa Fuchs

has recently received the **Dr Maria Elena Anzures Lopez 2020 award from the General Hospital of Mexico**

in recognition of her investigational and educational activities in clinical nutrition.



Forty Third ASPEN Presidential Address:

“Our Time Is Now – Challenges and Strategies for the Field of Nutrition”

By **Dr Nilesh M. Mehta, MD**, just published in *JPEN*, March 2020.
<https://doi.org/10.1002/jpen.1810>



Dr Nilesh M. Mehta, MD

ASPEN mourns the loss of Stanley Dudrick, MD, FACS, Founder and First President of ASPEN



Dr Stanley Dudrick

Dr Stanley Dudrick, recognized around the world for his pioneering research and leadership in the development of

parenteral nutrition, passed away on January 18, 2020, at his home in New Hampshire. Dr Dudrick's research and continuing commitment to the science of nutrition led to one of the most important advances in modern surgery, saving the lives of

millions of acutely ill adults and children through parenteral nutrition therapy.

Special Tributes to Dr Dudrick by past ASPEN presidents and other VIP can be seen on pages 2–3.

ASPEN Town Hall Webinar

ASPEN Leaders held a Town Hall webinar to update members on 2019 achievements and planned activities for 2020.

The meeting was chaired by **Senior Director, Peggi Guenter** who introduced **President, Lingtak-Neander Chan** who outlined the four pillars of ASPEN's mission and vision, emphasizing the importance of all member volunteers, without whom ASPEN would have difficulty meeting all its goals. **CEO, Wanda Johnson**, then reported on the successful achievements of 2019, notably the excellent collaboration with the British and Canadian societies, BAPEN and CNS, for the very successful Malnutrition Awareness Week. This collaboration will continue for the next MAW from 5th–9th October 2020. More

international involvement occurred during the year with ASPEN providing speakers at the ESPEN, FELANPE, PENZA and UAE congresses.

Sixteen educational webinars were held, two new books were published and the eLearning center continued supporting the online self-assessment and other educational programmes.

Phil Ayers, Secretary/Treasurer, reported a surplus of over \$71,000 on a revenue of \$5.3m for the fiscal year to September 2019, with generous grants for the Rhoads Research Fund.

For 2020, two new books on Parenteral Nutrition and Fluid/Electrolytes will be published and new Apps for ASPEN and the JPEN/NCP



journals will be launched. Four new clinical guidelines are in development, including two covering paediatrics. The team expressed thanks and their gratitude to the ASPEN office staff, who will carry out more staff visits to ASPEN chapters during the year.

ASPEN21 will be held in Denver Colorado 20–23 March 2021.

Submit proposals for topics and educational sessions by 24 April at www.nutritioncare.org/SessionProposal. Abstract submissions open in July 2020. See: nutritioncare.org/abstracts

ASPEN Section Volunteer Opportunities

Several ASPEN sections – Critical Care, Dietetics Practice, Neonatal, Nutrition Support Nurses, Pediatric Intestinal Failure, Pediatrics, Pharmacy Practice, and Student – have multiple volunteer leadership opportunities for members for the coming year.

ICNS encourages more international representation in these sections. If you are interested, please email Salewa Akintilo, salewaa@nutritioncare.org

ASPEN Malnutrition Awareness Week™ videos remain available

If you were unable to participate in Malnutrition Awareness Week™ educational offerings last September, you still have the opportunity to see several educational videos produced by ASPEN on various malnutrition

topics. These short, on-demand videos, ideal for busy clinicians, can be viewed anytime, anywhere.

Check out all of the resources at the **Malnutrition Solution Center** and share them with your colleagues!

**Save the Date:
Malnutrition
Awareness
Week™
October 5–9
2020**

ASPEN advice on Coronavirus epidemic

With the coronavirus (COVID-19) pandemic spreading globally, ASPEN wishes to remind all clinicians that nutrition care is vital, particularly in patients with infections:

- Malnourished hospitalized patients are associated with higher hospital costs, longer stays, and increased mortality. *See ASPEN's malnutrition infographic.*
- *The ASPEN Value Project* revealed significant economic value and improved outcomes for patients who are acutely ill

with nutrition support. Sepsis is just one of the therapeutic areas where nutrition support has been associated with a decreased ICU length of stay and mortality.

The society has many resources to help clinicians and providers to care for patients, especially the critically ill, including resources on enteral nutrition and resources on parenteral nutrition. **See nutritioncare.org/ENresources and nutritioncare.org/PNresources.**

ASPEN Value Project reveals \$580M in Medicare savings with Nutrition Support Therapy

A study recently published in *JPEN* finds that nutrition support therapy for specific hospitalized populations could reduce Medicare costs by a projected \$580 million each year.

Value of Nutrition Support Therapy: Impact on Clinical and Economic Outcomes in the United States.

Renay Tyler, DNP; Albert Barrocas, MD; Peggi Guenter, PhD, RN; Krysmaru Araujo Torres, MD, MSPP; Matthew L. Bechtold, MD; Lingtak-Neander Chan, PharmD; Bryan Collier, DO. *JPEN* January 2020.
<https://doi.org/10.1002/jpen.1768>

ASPEN 2020 CONFERENCE CHANGED TO VIRTUAL Last Days to Register at nutritioncare.org/Conference



STRONG INTERNATIONAL INTEREST TO ATTEND CONFERENCE

Due to health and safety concerns brought on by the coronavirus (COVID-19), ASPEN made the right decision by changing its in-person conference to a virtual event. Much of the original program has been retained: 2 pre-conference courses; 25 conference sessions including the **President's Address, Keynote, Dudrick Symposium, Rhoads Lecture, corporate sponsored programs**, and more.

Over 200 international delegates have registered to join virtually. Delegates who miss the virtual conference can catch up through session recordings which will be available on the ASPEN eLearning Center at nutritioncare.org/elearning in a few weeks time.

ASPEN President, Lingtak-Neander Chan's address will be a highlight which will be posted in the ASPEN eLearning Center



President, Professor Lingtak-Naeder Chan

afterwards and available later as a *JPEN* publication.

Invited International guest speakers at ASPEN20 includes the Rhoads Research Lecture:

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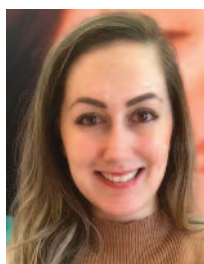
Professor Mette Berger, MD, PhD, from Switzerland.



Of the 54 international abstracts selected for poster presentations, 12 were from Canada and 9 were from Latin America. Several international abstracts were chosen for oral presentations, including: “Establishing a laboratory method to examine the use of antimicrobial intravenous catheter

locks” by **Peter Austin, PharmD PhD (UK)** and “Benefit of 20g partially hydrolysed guar gum (PHGG) intake prior to pelvic radiation on diarrhea frequency and microbiome growth: a randomized clinical trial” by ICNS member **Hazreen Abdul Majid, RD, PhD (Malaysia)**.

The BEST International Abstract selected for presentation at the ASPEN20 Congress was:



Hellin dos Santos, MSc [BRASIL]

“A specialized nutritional formulation protects against memory deficits induced by intracerebroventricular infusion of amyloid- β peptide oligomers (A β Os) in mice”

Other International Abstracts of Distinction :

Abdulsalam Aliyu, MBBS, MSc [UK]

“Gastrointestinal responses to nasogastric tube feeds assessed by MRI: the role of alginate”

Christina Belza, PhD(c), MN, BScN [CANADA]

“Strength and Agility is positively related to Fat Free Mass and Bone Mineral Density in Children with

Intestinal Failure on Parenteral Nutrition”

Chiara D’Eusebio, MD [ITALY]

“Survival and parenteral nutrition dependence in patients with chronic intestinal failure on home parenteral nutrition (HPN): experience over a 30-year period in the Regional Reference Centre of Turin (Italy)”

Ronaldo Oliveira Filho, RD [BRASIL]

“Impact of parenteral infusion of fish oil containing lipid emulsion on lipid peroxidation and antioxidant defenses in rat liver”

Rongrong Li, MD [CHINA]

“Ground-breaking application of raw corn starch-based diet in patients with insulinoma: a before-after prospective study”

Diana Mager, PhD, MSc, RD [CANADA]

“Does sarcopenia in children with end-stage liver disease (ESLD)

adversely impact post-operative clinical outcomes?”

Lisa Martin, PhD, RD [CANADA]

“A training program for computed tomography (CT) body composition assessment designed for Registered Dietitians: A pilot study”

Tatsuto Nishigori, MD, PhD, FACS [JAPAN]

“Changes in skeletal muscle mass during two years after esophagectomy: a prospective cohort study”

Jessica Que, BSc [CANADA]

“The Impact of Daily Probiotics on the Incidence and Severity of Necrotizing Enterocolitis in Very Low Birth Weight Infants”

International Posters of Distinction

Luis Ortiz, MSc [CANADA]

Katherine Venneri, MSc, FN(c) [CANADA]

New ASPEN T SHIRT logo decided by majority vote of members



Who's Who in ICNS



Professor Maria Cristina Gonzalez

Professor Maria Cristina Gonzalez, MD obtained a Bachelor's in Medicine from Pontificia Universidade Católica de Campinas, Brazil (1982), a master's in Epidemiology from Universidade Federal de Pelotas (1999) and doctorate in Epidemiology from Universidade Federal de Pelotas (2002). During her Ph.D., she stayed four months in the Obesity Research Center at St Luke's

Roosevelt, Columbia University, NY, USA and then in 2013 carried out Post-Doctoral research at Pennington Biomedical Research Center in Louisiana State University, USA, where she has retained the position of Adjunct Instructor in Metabolism and Body Composition Lab. Cristina is a Professor at the Catholic University of Pelotas, working at the graduation level of Medical School and Postgraduate Program in Health and Behavior, and is an Associate Professor for the Postgraduate Program in Nutrition and Food, and the Postgraduate Program in Epidemiology, at the Federal University of Pelotas. She has experience in Medicine and Nutrition, focusing on body composition, researching the following subjects: nutritional assessment, bioelectrical impedance analysis, nutritional support in surgery, elderly, and oncology. Cristina is a long time member of ASPEN for over 20 years and has contributed to several working groups, notably the recent GLIM ASPEN/ESPEN recommendations on defining and treating malnutrition.



Dr Charles E. Bermúdez P.

Dr Charles E. Bermúdez P., MD, FACS is President of the **Colombian Association Of Clinical Nutrition (ACNC)** and Chief of Nutrition and Nutritional Support in the Clinica la Colina, part of the Clínica del Country hospital group in Bogota, Colombia.

Dr Bermúdez is a general surgeon, specializing in laparoscopy and in medical law and is Professor of the National Cancer Institute. He has been a member of ASPEN for six years and is a Fellow of the American College of Surgeons.

One of Charles' passions, besides nutrition, is sea diving. He is a Dive Master, one of the highest ranks in diving for which you require multiple qualifications such as diver medicine and rescue competencies.



The board of the ACNC

Who's Who in WASPEN



Udo-Christopher, Uzoamaka C.

Mrs Udo-Christopher, Uzoamaka C. is a registered Nurse/Midwife/Critical Care Nurse and member of WASPEN. She has a bachelor's degree in Nursing Science from Texila American University in Guyana and is a member of Nigeria Society of Critical Care Nurses. With over 15 years of clinical practice in the

hospital, her passion for uncompromised care has led to opportunities to provide several basic nursing courses in critical care at University of Jos Teaching Hospital in Nigeria. In addition, she is currently the coordinator of an intensive care unit at Delta State University Teaching Hospital in Oghara, Nigeria. Her interest in parenteral nutrition for critically ill patients in the intensive care unit has made her a registered member of WASPEN. She is ecstatic to have the privilege to not only collaborate with ASPEN through WASPEN, but also work with Dr Teresa Pounds and her ICNS colleagues. She looks forward to advocating for critically ill patients in dire need of parenteral nutrition. She currently resides in Delta State, Nigeria, and is happily married with children.

New Senior Leadership Team (SLT) for ICNS

Acting Chair, Dr Theo Wong and Acting Chair-elect, Dr Eliza Francisco, pictured right, will be presented to the ICNS membership as the leadership slate for 2020–2022. The slate will be presented at the ICNS

Virtual Forum in April (date to be determined).

If you are interested in joining the SLT or becoming more active in ICNS, please email Dr Theo Wong: thewong@hotmail.com

Acting Chair,
Dr Theo Wong and
Acting Chair-elect,
Dr Eliza Francisco



Books and Key Publications from ICNS Members and Other International Authors

Stanley Dudrick: A Man Who Dared to Change What We Used to Know.
Klek, S., Hardy, G.

Clin. Nutr. March 2020 (in press)

100-y Anniversary of Harris-Benedict Equation.

Szczygiel, B., Klek, S., Skronski, M.K., Ukleja, A., Słodkowski, M.

Nutrition. 2020; 2. doi: 10.1016/j.nut.2019.110716

Tributes to our First President and Founding Father, Stanley J. Dudrick, MD, FACS, FASPEN.

Tappenden, K.A., Dudrick, S.J. Jr, Chan, L.N., Daly, J.M., Steiger, E., Barrocas, A., Compher, C., Winkler, M.F., Kliger, R.G., Yu, J., Klek, S., Hardy, G., Pimiento, J.M., Bishop, J., Bond, B., Tillman, E.M.

JPEN. 2020 Feb;44(2):159–171. doi: 10.1002/jpen.1812.

Protein Requirements in Critical Illness: Do We Really Know Why to Give So Much?

Leyderman, I., Yaroshetskiy, A., Klek, S.

JPEN. 2020 Feb 11. doi: 10.1002/jpen.1792.

Summary of Proceedings and Expert Consensus Statements from the International Summit “Lipids in Parenteral

Nutrition”.

Martindale, R.G., Berlana, D., Boullata, J.I., Cai, W., Calder, P.C., Deshpande, G.H., Evans, D., Garcia-de-Lorenzo, A., Goulet, O.J., Li, A., Mayer, K., Mundi, M.S., Muscaritoli, M., Pradelli, L., Rosenthal, M., Seo, J.M., Waitzberg, D.L., Klek, S.

JPEN. 2020 Feb;44 Suppl 1:S7–S20. doi: 10.1002/jpen

Use of Lipids in Adult Patients Requiring Parenteral Nutrition in the Home Setting.

Mundi, M.S., Klek, S., Martindale, R.G.

JPEN. 2020 Feb;44 Suppl 1:S39–S44. doi: 10.1002/jpen

Lipid Use in Hospitalized Adults Requiring Parenteral Nutrition.

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Continued on page 11...

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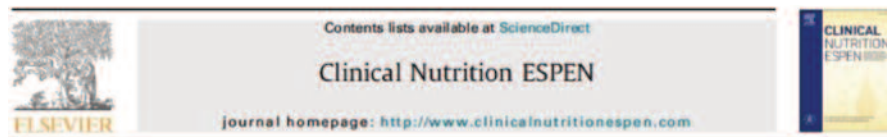
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Original article

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N. Kamperidis*, L. Tesser, P. Wolfson, C. Toms, K. Katechia, D. Robinson, J. Nightingale

St Mark's Hospital, Harrow, Middlesex HA1 3JG, UK

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Expert Consensus on Omega-3 Fatty Acids in Parenteral Nutrition

➤ Live: 10:00 – 11:30AM US ET / 4:00 – 5:30PM CEST
➤ Recorded with Live Q&A: 3:00 – 4:30PM US ET / 9:00 – 10:30PM CEST

APRIL 22, 2020

Focus on Critical Care and Major Surgery

Omega-3 Fatty Acids in Medical Nutrition: From Bench to Bedside

Philip C Calder, PhD; University of Southampton; Southampton, UK

Omega-3 Fatty Acids in Chronic Critical Illness

Martin Rosenthal, MD; University of Florida Health; Gainesville, FL, USA

Omega-3 Fatty Acids in Acute Critical Illness

Konstantin Mayer, MD; St. Vincentius Clinic; Karlsruhe, Germany

Moderator: Philip C Calder, PhD

JULY 9, 2020

Continuum of Care – From Hospital to Home Care

Surgical Oncology Patients with Acute Intestinal Failure

Stanislaw Klek, MD, PhD; Stanley Dudrick's Memorial Hospital; Skawina, Poland

Managing Patients with Chronic Intestinal Failure

Manpreet Mundi, MD; Mayo Clinic; Rochester, MN, USA

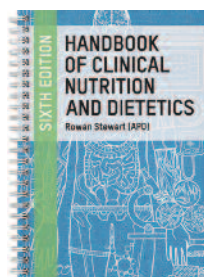
Moderator: Leah Gramlich, MD; University of Alberta; Edmonton, Canada

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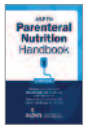
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ISBN: 9780648588788

Continued on page 12...

BOOKS

New ASPEN Releases!



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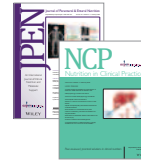
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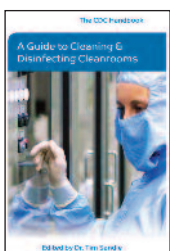


Details at: Nutritioncare.org/Journals

British Pharmacopoeia proposes new monograph for PN with limit for Aluminium contamination

Definition: Parenteral nutrition solutions contain essential nutrition requirements in the form of protein (amino acids), carbohydrate (glucose) and fat (lipids), together with electrolytes, trace elements and vitamins. The solutions comply with the requirements stated under Parenteral Preparations and with the following requirements. Where appropriate the solutions also comply with the requirements stated under Unlicensed Medicines.

Aluminium: Not more than 25 g/L, when determined by atomic absorption spectrophotometry with at least three reference solutions in the range spanning the expected aluminium concentration of the test solution by diluting aluminium standard solution (25 ppm Al) with the test solution, and measuring the absorbance at 309.3 nm using an aluminium hollow-cathode lamp as the radiation source and a graphite furnace.



The CDC Handbook: A Guide to Cleaning and Disinfecting Cleanrooms

This bestselling book edited by **Dr Tim Sandie**, was first published in 2012 and it has

undergone a major update to reflect current regulations and best practices.

The Cleaning and Disinfection handbook is aimed at those working within the pharmaceutical and healthcare sectors around the world as well as providing valuable information for professionals, students and for the general reader.

The book provides comprehensive detail on different types of disinfectants and their modes of action; explains the problems of microbial destruction and resistance; introduces cleaning techniques and the latest safety regulations; expounds upon the application of cleaning within healthcare and pharmaceutical environments, noting current national and international standards. The book also provides guidance on disinfectant efficacy

testing and compares U.S. and European approaches. Additional chapters cover the use of hydrogen peroxide and other methods for decontaminating isolators; how to audit disinfectant suppliers; and regulations/quality assurance.

Assembled by expert practitioners, the book balances theoretical concepts with sound practical advice, and is likely to become the definitive text on keeping contamination in control within clean areas and controlled environments. With this second edition, the book is fully updated in line with the latest standards and regulations; a new validation strategy approach; revised information on safety regulations; and more.

The book is available from all Amazon stores. ISBN13 9781781487686.

ASPEN Journal Podcasts

- *JPEN*: "Relationship Between Dietary Fiber Intake and Short-Chain Fatty Acid-Producing Bacteria During Critical Illness: A Prospective Cohort Study" ([Listen](#)).
- *NCP*: "Hepatic Encephalopathy and Nutritional Influences: A Narrative Review" ([Listen](#)).
- *JPEN*: The Value of Nutrition Support Therapy: Impact on Clinical and Economic Outcomes in the US ([Listen](#))
- *NCP*: Dispelling Myths and Unfounded Practices About Enteral Nutrition ([Listen](#)).

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New Guidelines for Neonatal PN from NICE UK



Dr Theodoric Wong

The UK National Institute for Health and Care Excellence (NICE) provides national guidance and advice to improve health and social care. The NICE committee

authors for **Neonatal Parenteral Nutrition that includes Dr Theo Wong, ICNS Acting Chair** and Consultant Paediatric Gastroenterologist at Birmingham Children's Hospital UK, has

recently published **NICE Guideline 154 for Neonatal Parenteral Nutrition** <https://www.nice.org.uk/February2020>

This guideline covers Parenteral Nutrition for babies born preterm, up to 28 days after their due birth date and babies born at term. PN is often needed by preterm babies, critically ill babies, and babies who need surgery. The NICE guideline includes recommendations on:

- indications for, and timing of, neonatal PN

- administration of neonatal PN
- energy needs of babies on neonatal PN
- neonatal PN volume
- constituents of neonatal PN
- standardised neonatal PN ('standardised bags')
- monitoring neonatal PN
- stopping neonatal PN
- service design
- information and support for parents and carers.

FAIR FOR RARE DISEASES events in Australia and New Zealand

Chris Walker, President of the Australasian HPN patients support group 'Parenteral Nutrition Down Under' (PNDU) attended the Rare diseases event at Parliament House in Canberra, Australia on the 26th and 27th February.

The Australian Minister for Health, The Hon. Greg Hunt, launched the National Strategic Action Plan for Rare Diseases to deliver the best possible health and life outcomes for the two million Australians living with rare diseases, which was supported by Chris' local MP Meryl Swanson.

In Wellington, New Zealand, **iDEN** editor, Gil Hardy represented PNDU at a similar event in 'The Beehive' New Zealand's parliament, hosted by Dr Liz Craig, MP, right.

Lisa Foster, CEO of Rare Diseases NZ, far right, launched a collective call for a National Framework which included a booklet outlining the seven points in the Framework a White Paper: based on the results of the 2019 Rare Disorder survey and a Petition calling for a National Rare Disorder Framework.



PNDU President Chris Walker with Meryl Swanson, MP





Clinical Nutrition News around the World



AuSPEN (Australia and New Zealand)

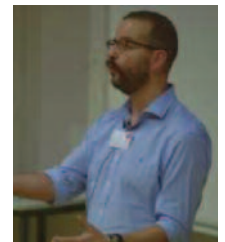


The 45th Annual AuSPEN 2019 conference “Bench to Bedside” was held in Adelaide Australia from 23–25 November 2019. The conference programme incorporated basic science, clinical research, policy and practice and lead attendees on a translational nutrition focused journey from the laboratory into clinical practice and beyond. Guest speakers were

Professor Kevin Whelan, Professor of Dietetics at King’s College London, UK. Professor Michael Hiesmayr from Switzerland and Danielle Bear Clinical Doctoral Fellow, Department of Critical Care, Guy’s and St Thomas NHS Foundation Trust, London. ASPEN past President and current President of the Rhoads



Marion Winkler



Prof. Kevin Whelan

Foundation, Marion Winkler, PhD, RD.

The AuSPEN Advanced Nutrition Course was held from 19–22 February 2020. The course was designed to enhance the knowledge and understanding of the principles and application of nutrition support for those involved in the nutritional care of patients. With a multidisciplinary focus to suit all health professionals with an active role in

nutrition support looking to enhance their learning, the course aimed to meet the professional development needs of experienced and interested clinicians in the area of clinical nutrition.

Through the use of facilitated discussion, problem-based learning and a seminar-style environment, topics included the role of the

acute phase response, intermediary metabolism, nutritional assessment and objective measurements of body composition and function, nutritional requirements in different disease states, complexities of enteral and parenteral nutrition, the compromised gut, leadership and research.

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Dr Diana Cárdenas

Contributed by Dr Diana Cárdenas.

The Colombian Association of Clinical Nutrition has put all their efforts into

promoting education and the development of clinical nutrition in Colombia and Latin America. In addition to regional symposiums throughout the year, the ACNC organizes the **34th Colombian Congress of Metabolism and Clinical Nutrition**, that will be held at Agora Congress Center, in Bogota, **from 27–29 August, 2020**. This will be an opportunity to share knowledge and experiences with national and international experts. The congress will offer pre-congress courses like ESPEN LLL courses and a workshop on research in Clinical Nutrition. The best research abstracts will be awarded, within the framework of the 34th version of the **research prize dedicated to José Félix Patiño Restrepo**. During the Congress, Latin American experts will work on the validation by consensus of the toolkit for the **Cartagena Declaration on the Right to Nutritional Care and the Fight Against Malnutrition**. (Figure 1).

The Cartagena Declaration was signed on May 3rd 2019, by representatives of all Latin American PEN societies together with **Dr Rocco Barazzoni**, representing ESPEN (back row, far right) and Dr Juan Ochoa, representing ASPEN (front row 2nd from right).

The Declaration recognizes the right to nutritional care as a human right and should be considered a framework document

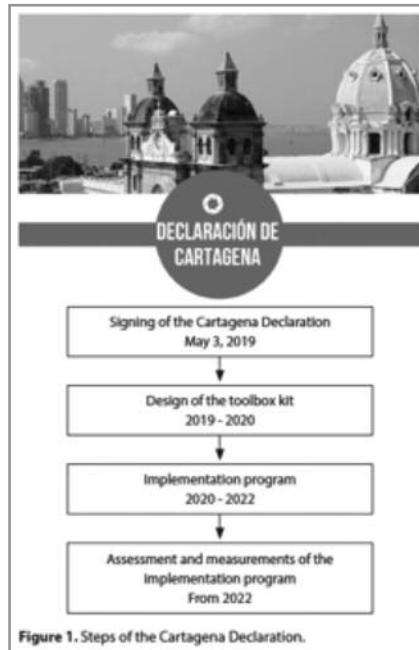


Figure 1. Steps of the Cartagena Declaration.

whose 13 principles constitute the basis for promoting the development of nutritional care in the clinical field. Also, at the same time raising awareness among public authorities and academic institutions. It will serve as an instrument for governments to promote the formulation of policies and legislation in the field of clinical nutrition. We believe that the general framework of principles proposed by the Declaration can contribute to raising awareness about the magnitude of this problem and forging cooperation networks between the countries of the region, indeed the world. The Cartagena Declaration should be

considered as a starting point for the development of actions that seek to promote the right to nutritional care and the fight against malnutrition. The principles established therein must be transformed into concrete actions. To this end, tools are being designed to translate the core concept of the 13 principles into actions.

A Call to Action

The ACNC global call to unite in fighting malnutrition and respecting the right to nutritional care. This implies embracing the 13th statement of the Declaration: *“The FELANPE urges the States and the Human Rights Council of the United Nations to recognize this Declaration and therefore the Right to Nutritional Care as a human right as it guarantees all people, especially the malnourished ill, access to nutritional care and, in particular, optimal and timely nutritional therapy in order to reduce the high rates of hospital malnutrition and the associated morbidity and mortality, among other things”*.

Thus, on behalf of the Colombian Association on Metabolism and Clinical Nutrition (ACNC), it is a great pleasure to invite you to the 34th Colombian Congress of Metabolism and Clinical Nutrition taking place in Bogotá, Colombia, and to actively

participate in these activities.

The Journal of Clinical Nutrition and Metabolism (Revista de Nutrición Clínica y Metabolismo)

To present and promote the



Continued on page 16...

Cartagena Declaration and the right to nutritional care, the RNCM journal published a supplement in Spanish and English, in December 2019. The articles contain the key elements to know and to understand the 13 principles of the Declaration, the legal and ethical aspects as well as the importance of recognizing the right to nutritional care.

A supplement on the importance of an interdisciplinary approach to clinical nutrition, with contributions from nurses, nutritionists, physicians and pharmacists to address the problem was edited by Sonia Echeverri, RN, FASPEN, with an invited article by IDEN editor, Gil Hardy (*Revista de Nutrición Clínica y Metabolismo*. 2019;2(Supl.1):63-75).

The issue opens with an **editorial from Charles Bermudez, President of the Colombian Clinical Nutrition Association**, who has been the leader and the driver of this initiative. An **Editorial from Dolores Rodriguez, President of FELANPE**, recognizes the importance of this topic in Latin

America. Finally, **Rocco Barazzoni, President of ESPEN** confirms the European support of this initiative and invites us all to continue the efforts.

<https://revistanutricionclinica-metabolismo.org/index.php/nutricionclinicametabolismo/issue/view/6>

Among the various articles the message is clear: The human-rights based approach could contribute to the development of clinical nutrition. This approach allows the identification of the main priorities and objectives in order to fight against malnutrition and implement optimal nutritional care for everyone. Thus, the right to nutritional care is a human right that needs to be recognized internationally as “the Right to Nutritional Care as a human right,

guaranteeing all people, especially the malnourished and ill, access to nutritional care and, in particular, optimal and timely nutritional therapy in order to reduce the high rates of hospital malnutrition and the associated morbidity and mortality among other consequences”. It is important to highlight, that this does not mean that everyone has the “right” to claim to be fed under any circumstance or during every stage of life, including the terminal phase. On the contrary, recognizing this right implies that the best decision for the patient must be taken and this may include the decision not to feed.


Original article

The International Declaration on the Right to Nutritional Care and the fight against Malnutrition, “Declaration of Cartagena”

DECLARACIÓN DE CARTAGENA
Declaración Internacional sobre el Derecho al Cuidado Nutricional y la Lucha contra la Malnutrición
Declaração Internacional sobre o Direito ao Cuidado Nutricional e a Luta contra a Desnutrição

Diana Cardenas¹, Charles Bermúdez², Sonia Echeverri³, Angélica Pérez⁴, Milena Puentes⁵, Lina López⁶, Isabel Correia⁷, Juan B. Ochoa⁸, Ana Maria Ferreira⁹, Maria Alexandra Teixeira¹⁰, Diego Arenas Moya¹¹, Humberto Arenas Márquez¹², Miguel Leon-Sanz¹³, Dolores Rodriguez-Ventimilla¹⁴.

Received: 15 December, 2018. Accepted: 15 April, 2019
 Published Online: May 4, 2019

Vietnam Dietetic Association



Contributed by Dr Nguyen Viet Quynh Thu.

The Vietnam Dietetic Association (VDA) was founded on 7 November 2019. The VDA

has contributed to improve nutrition for all Vietnamese people. The members of VDA are mainly nutrition related medical doctors, dietitians and nurses working in clinical nutrition department in hospitals. The members also include those related to school nutrition, health/sports nutrition,

public health nutrition... The VDA provides a lifelong, continuous education system which improves the ability of dietitians and nutrition-related medical staff.

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Prof. Le Danh Tuyen – National Institute of Nutrition.

Vice President – General Secretary

Nghiem Nguyet Thu MD, PhD – National Geriatric Hospital.

Vice President

Nguyen Viet Quynh Thu MD, MSc, Specialist level II – FV Hospital.



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Assoc. Prof. Nguyen Do Huy – National Institute of Nutrition.
Luu Ngan Tam MD, PhD – Cho Ray Hospital.

Assoc. Prof. Lam Vinh Nien – Ho Chi Minh Medical and Pharmacological University Hospital.

Nguyen The Thanh MD, Specialist level II – Bach Mai Hospital.



Iranian Society of Nutrition



Dr Lucy Sutanto

Contributed by Dr Lucy Sutanto

The 3rd International Clinical Nutrition Conference, entitled

“*Fighting Malnutrition in Hospitals*” was held in Mashhad, Iran, 17–19 February 2020. Chaired by Dr Abdolreza Norouzy, the event was organized by Mahhad University Medical Sciences, supported by PENSAs and the Indonesian Nutrition Association (INA) with guest speaker Dr Luciano Sutanto.

Three LLL ESPEN Courses were held two days before the main symposium; Approach to Parenteral Nutrition, Nutritional Support in Gastrointestinal Disorders, and Nutritional Support in Cancer courses.



Guest speaker, Dr Lucy Sutanto representing the Indonesian Nutrition Association (center) with local Iranian faculty



Advancing Nutrition Care in India

Indian Association for Parenteral and Enteral Nutrition (IAPEN)



Dr Harish Ambeka

Dr Harish Ambekar, Hon President, IAPEN Bengaluru Chapter invited members of IAPEN to

participate in the International conference on Surgical Nutrition held in Bangalore, India from 22nd–23rd November 2019 with

guest speaker Professor Takashi Higashiguchi, MD, PhD, Chairman of the Board of Trustees for the Japanese Society for Parenteral and Enteral Nutrition (JSPEN), Japan.

With the theme “*Advancing Surgical Nutrition in India*” the conference explored new topics in surgical nutrition and application of various Nutrition Intervention techniques in different Indian clinical settings. According to Dr

Ambekar, IAPEN’s long journey from 2012 to establish a multi-disciplinary society devoted to the study of metabolic problems associated with acute diseases and their nutritional implications and management is taking new heights.



Professor Takashi Higashiguchi

Continued on page 18...



Delegates at IAPEN International conference on surgical nutrition in 2019



Faculty at IAPEN International Conference on Surgical Nutrition



Putting patients at the centre
of good nutritional care

The British Association For Parenteral And Enteral Nutrition (BAPEN)

highlighting BAPEN's commitment to the importance of

getting involved in the fight against hospital malnutrition.



BAPEN Chair, Dr Trevor Smith welcoming delegates

BAPEN Annual Conference was held in November 2019 in Belfast UK.

BAPEN Chair, **Dr Trevor Smith** welcomed delegates and launched the latest video: *"Nutrition Matters. BAPEN Matters"*



Dr Peter Collins from Brisbane Australia presenting on the importance of nutrition support in COPD.



BAPEN Panel discussion on IF/HPN chaired by **Dr Smith** (far left) with contributions from **Dr Jeremy Nightingale** (second from right) and **Carolyn Wheatley** of PINNT representing HPN patients (far right).

West African Society of Parenteral and Enteral Nutrition (WASPEN) Update



By **Dr Teresa I. Pounds, PharmD, BCNSP.**

Dr Teresa Pounds

The first online meeting of WASPEN was

held on February 9th at 9 pm. The meeting was chaired by **Dr Teresa Pounds, President of WASPEN**, and key group leaders (Secretary, P.R.O., Treasurer) and other existing and new members, comprising physicians, pharmacists, nurses and dietitians, were in attendance. Dr Pounds reviewed the purpose and goals of WASPEN:

- Maintain a forum or avenue that allows exchange of ideas in the area of specialized nutrition support.

- Promote safe and effective nutrition support therapy.
- Promote professional communication among and within professional disciplines for both enteral and parenteral nutrition.
- Support research in the field of clinical nutrition.
- Encourage professional competency among practitioners and investigators in clinical nutrition to improve patient care through postgraduate and continuing education programs.

During the meeting, Dr Pounds discussed plans for the upcoming year, which includes the Inauguration Conference. **The**

Inauguration Conference is anticipated to take place July or August 2020 in either Lagos or Abuja, Nigeria. NAFDAC, a partner of WASPEN, has been invited to be in attendance. Dr Pounds also discussed the incorporation of WASPEN to the U.S.A., the creation of the website, and membership dues. She encouraged current WASPEN members to attend the March 2020 ASPEN conference in Tampa, Florida as well as the March 2021 ASPEN conference in Denver, Colorado. She reported that nutrition assessment and support surveys have been distributed and analyses are still in progress.

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*Baxter data on file.

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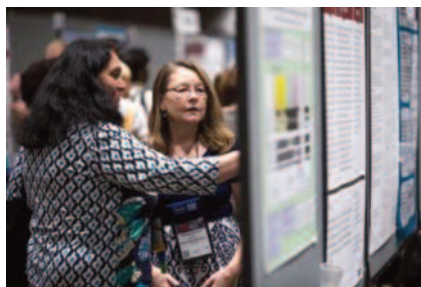
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12TH ASIA PACIFIC CONFERENCE
ON CLINICAL NUTRITION
Dubai - United Arab Emirates
20 - 21 November 2020



www.apccn2020.com

Abstract Submission is Now Open!

Abstract submission is now open for the **12th Asia Pacific Conference on Clinical Nutrition (APCCN)** and we are pleased to invite you to submit your abstract for consideration as a poster presentation. This serves as a great opportunity to be in a unique learning environment that inspires and enables research, innovation, discovery, and excellence.



WARNING:

Diary Dates information was accurate at the time of going to press but conferences could be cancelled or dates postponed depending upon the developing COVID-19 pandemic.

Diary Dates 2020

- 21–25 April
2nd Congress of International Society of Renal Nutrition and Metabolism
Guangzhou, China
www.renal-nutrition.org
- 3–6 June
The World Congress for Paediatric Gastroenterology, Hepatology and Nutrition
Copenhagen, Denmark
www.wcpghan2020.org
- 23 June
4th Global Summit on Nutritional Science and Food Chemistry
Toronto, Canada
<https://scientificfederation.com/nutritionalscience.com>
- 15–17 June
38th International Symposium on Diabetes and Nutrition
Girona, Spain
<https://dnsg2020.com>
- 15–18 June
British Society of Gastroenterology Annual Conference
Liverpool, UK
www.bsg.org.uk
- 26–28 June
11th International Paediatric Intestinal Failure and Rehabilitation Symposium
Toronto, Canada
www.PIFRS2020
- 13–16 July
UK Nutrition Society Summer Conference ‘Protein Sources: Benefits and Global Challenges’
Aberdeen, Scotland
www.nutritionssociety.org
- 26–28 August
ERAS Conference 2020
New Orleans, USA
www.erasociety.org
- 27–29 August
34th ACNC Congress
Bogota, Colombia
www.nutriclinicacolombia.org
- 31 August – 1 September
Ganepao 2020 Nutrition Congress
Sao Paulo, Brazil
www.ganepao.com.br
- 19–22 September 2020
42nd ESPEN Congress ‘Live HealthY with Optimum Nutrition’
Lyon, France
www.espen.org
- 26–29 September
FELANPE XVII Congreso Latino Americano y IV Congreso Nacional de Terapia Nutricional, Nutrición Clínica y Metabolismo de Pediatría
Guaquil, Ecuador
www.felanpe2020.org
- 13–14 October
Food Matters Live Intercontinental
London, UK
www.foodmatters.co.uk/live
- 29–31 October
25th PENZA Congress
Bangkok, Thailand
www.pensa-online.org
- 17–18 November
BAPEN Annual Conference
Brighton Metropole, UK
www.bapen.org.uk
- 20–21 November
APCCN 12th Asia Pacific Congress Clinical Nutrition
Dubai, UAE
www.apccn2020.com

Diary Dates 2021

- 31 October – 4 November
XIX Congreso Latino Americano de Nutrición (SLAN) Asuncion, Paraguay
www.slan2021.com
- 20–23 March
ASPEN 2021 Conference
Colorado, Denver, USA
www.nutritioncare.org

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