MASTER CLASS ON PARENTERAL NUTRITION IN NEONATAL AND PAEDIATRIC INTENSIVE CARE UNITS

NOVEMBER 23–25, 2016
PARIS, FRANCE
ESPGHAN provides a variety of educational activities, events and information that are available throughout the year. The ESPGHAN Education Partner Programme (EPP) was launched in 2015. Based on the 2015 adopted ESPGHAN Code of Conduct, the EPP has been developed to ensure the on-going development and implementation of an up-to-date, independent, high quality educational programme for health care professionals. The dedicated support and financial commitment from our partners helps to enhance and stabilise support for ESPGHAN’s educational activities. The EPP educational activities for 2016 are:

<table>
<thead>
<tr>
<th>Event Name</th>
<th>Date</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paediatric Hepatology Summer School</td>
<td>April 27-30, 2016</td>
<td>Visegrád, Hungary</td>
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<tr>
<td>ESPGHAN Eastern Europe Summer School</td>
<td>May 23-25, 2016</td>
<td>Kazan, Russia</td>
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<tr>
<td>ESPGHAN Baltic Summer School</td>
<td>September 08-10, 2016</td>
<td>Vilnius, Lithuania</td>
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<tr>
<td>Young Investigator Forum</td>
<td>September 21-24, 2016</td>
<td>Bergen, The Netherlands</td>
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<tr>
<td>Paediatric Gastroenterology School</td>
<td>October 26-29, 2016</td>
<td>Florence, Italy</td>
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<tr>
<td>Master Class Evidence Based Medicine Guidelines</td>
<td>November 18-19, 2016</td>
<td>Budapest, Hungary</td>
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<tr>
<td>Master Class on Parenteral Nutrition in neonatal and paediatric intensive care units</td>
<td>November 23-25, 2016</td>
<td>Paris, France</td>
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<td>2nd Paediatric IBD Masterclass</td>
<td>November 24-26, 2016</td>
<td>Rotterdam, The Netherlands</td>
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<tr>
<td>ESPGHAN Master Class Clinical Trials</td>
<td>January 12-14, 2017</td>
<td>Budapest, Hungary</td>
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We sincerely thank the following EPP partners for their generous support and commitment:
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The course has been organised by the Committee on Nutrition (CoN) of ESPGHAN. The local organiser was Professor Lapillonne. This two day Master Class in Clinical Parenteral Nutrition aimed at sharing state-of-the-art nutritional knowledge and expertise on parenteral nutrition for paediatric and neonatal intensive care patients (see programme). There were 10 faculty, 9 ESPGHAN member (of which 5 member of CoN) and 1 local speaker. The lectures not only aimed at describing the various nutritional requirements of infants admitted either in the PICU or NICU, but also discussed how to apply them in practice. Clinical cases were also be presented by both faculty and participants since each participants were asked to submit a clinical case prior to the course.

We sincerely thank our EPP Partner for their crucial contribution to the organisation of this outstanding event.
2. Faculty

Master Class on Parenteral Nutrition

Local Organiser
Alexandre Lapillonne, France, NICU

ESPGHAN Committee of Nutrition
Magnus Domellöf, Sweden, NICU
Nickolas Embleton, UK, NICU
Iva Hojsak, Croatia, Paediatric Gastroenterology
Jessie Hulst, Netherlands, Paediatric Gastroenterology

ESPGHAN members
Olivier Goulet, Paris, France, Pediatric Gastroenterology
Koen Joosten, the Netherlands, PICU
Frederic Valla, Lyon France, PICU
Chris van den Akker, the Netherlands, NICU

Local speakers
Julie Toubiana, Necker, Paediatric Infectious Disease
3. Facts and Figures

45 Participants from 22 Countries spread over 4 continents attended the Master Class on Parenteral Nutrition (see Table 1).

In regard to Gender distribution 66 percent of the delegates were female to 34 percent male (see Figure 1).

It is our highest priority to continuously improve the scientific content and have feedback on the organisation of the course in order to maintain the best learning environment. To guarantee and improve the quality of ESPGHAN educational events an evaluation was conducted at the end of the course.

The delegates had 30 minutes to fill in the Evaluation form to give their feedback to the faculty and address open topics. The evaluation took place in the last session of the course.

40 Evaluations have been returned and the overall consensus was an excellent average outcome of 4.56 out of 5. The average score on the scientific content was 4.68 out of 5 whereas the organisation of the event scored an average 4.51 out of 5.

### Table 1

<table>
<thead>
<tr>
<th>Country</th>
<th>Delegates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>1</td>
</tr>
<tr>
<td>Austria</td>
<td>1</td>
</tr>
<tr>
<td>Belgium</td>
<td>2</td>
</tr>
<tr>
<td>Brazil</td>
<td>1</td>
</tr>
<tr>
<td>Finland</td>
<td>1</td>
</tr>
<tr>
<td>France</td>
<td>4</td>
</tr>
<tr>
<td>Iran</td>
<td>1</td>
</tr>
<tr>
<td>Israel</td>
<td>2</td>
</tr>
<tr>
<td>Italy</td>
<td>5</td>
</tr>
<tr>
<td>Latvia</td>
<td>1</td>
</tr>
<tr>
<td>Mexico</td>
<td>1</td>
</tr>
<tr>
<td>Norway</td>
<td>2</td>
</tr>
<tr>
<td>Poland</td>
<td>2</td>
</tr>
<tr>
<td>Portugal</td>
<td>1</td>
</tr>
<tr>
<td>Russia</td>
<td>2</td>
</tr>
<tr>
<td>Saudi Arabia</td>
<td>1</td>
</tr>
<tr>
<td>Serbia</td>
<td>1</td>
</tr>
<tr>
<td>Spain</td>
<td>2</td>
</tr>
<tr>
<td>Sweden</td>
<td>2</td>
</tr>
<tr>
<td>Switzerland</td>
<td>1</td>
</tr>
<tr>
<td>The Netherlands</td>
<td>2</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>45</strong></td>
</tr>
</tbody>
</table>

![Gender Distribution](image-url)
3.1. Evaluation of the Scientific Programme

Most of participants rated on the selection of topics, speakers and the presentations during the lectures as excellent and good. The content and the relevance to the practice were rated predominantly as excellent (see Figure 2).

The Feedback of the majority in regard to the quality of the applications for the day-to-day work and the knowledge the participants gained was rated as Excellent and Good (see Figure 3).

![Figure 2](image2)

**How do you rate the knowledge gained-is it applicable?**

![Figure 3](image3)
3.2. Scientific Programme

DAY 1: Wednesday, November 23, 2016

14:00–14:30 Welcome
14:30–15:00 Physiopathology of nutrition in critically ill patients (Frederica Valla)
15:00–16:30 Adaptation of energy and carbohydrate intake during the acute phase in the PICU (Koen Joosten)
Pro and Con for using insulin in the NICU? (Nickolas Embleton)
16:30–17:00 Coffee break
17:00–18:30 Nutritional management of the PICU patient: Example of the burned child (Koen Joosten)
Nutritional management of the patient with congenital heart disease (Frederica Valla)
19:30 Departure for dinner

DAY 2: Thursday, November 24, 2016

08:30–9:15 Clinical cases (2 small groups)
09:15–10:45 Fluid and electrolyte management of the preterm infant (Magnus Domellöf)
Fluid and electrolyte management of the PICU patient (Koen Joosten)
10:45–11:15 Coffee break
11:15–13:00 Assessment of nutritional status during hospitalization in the PICU (Jessie Hulst)
Which growth in the NICU for which outcomes? (Nickolas Embleton)
13:00–14:00 Lunch
14:00–14:45 Clinical cases (2 small groups)
14:45–16:00 Micronutrients requirements (Magnus Domellöf)
Amino acid metabolism and requirements for the preterm infant (Chris van den Akker)
16:00–16:30 Coffee break
16:30–18:00 Choice of a lipid emulsion (Alexandre Lapillonne)
Management of PN induced cholestasis (Oliver Goulet)
18:30– Social activity and dinner

DAY 3: Friday, November 25, 2016

09:00–09:45 Clinical cases (2 small groups)
09:45–10:30 Gastro-intestinal motility during critical illness (Jessie Hulst)
Transition of short bowel syndrome to the paediatric GI department (Iva Hojsak)
10:45–11:15 Coffee break
11:15–12:30 Prevention and management of sepsis in the PICU and NICU (Julie Toubiana)
Venous access and prevention of complications (Iva Hojsak)
12:30–13:00 Concluding remark
4. Evaluation of the Organisation

The delegates satisfaction of the course organisation as a whole including the venue, lecture hall and the provided material was rated overall with an average score of 4.5 out of 5 (see Figure 4). The local organiser was supported in organising the event by the ESPGHAN office. ESPGHAN provides each EPP Event with EPP branded banners, event flyers, and notepads. In addition, the logos of the EPP partners are prominently shown during break slides and on the course homepage and programme.

![Figure 4](image-url)
Networking, building friendships and maintaining relationships among faculty and delegates was initiated through the social programme during the Master Class of Parenteral Nutrition and is an important part of the ESPGHAN Team spirit.

The social activities during the Master Class provided unique opportunities to learn from and interact with faculty, to meet the other applicants and to discover the city hosting the course. The first dinner at the Vatel Institut offered a unique opportunity to discover this international catering and hotel management school, and to discover the French culture by the mean of typical French dishes. The second dinner, a dinner cruise on the Seine was a memorable moment allowing everyone to enjoy Paris by night.
6. Summary and Conclusion

The final evaluation of the course was very positive and gave a constructive and motivating feedback. The members of the faculty received excellent grades and the Master Class as a whole was considered to be very successful by all the participants.

Due to the great success of this course, it has been decided by the CoN to renew this course every two years. The next course should be held in the Netherlands in 2018.

We would like to cordially thank our EPP Partners for their valuable support of the digestive health of children. This educational event was funded solely by our EPP Partners.
We sincerely thank the following EPP partners for their generous support and commitment: