

**ESPGHAN**European Society for Paediatric
Gastroenterology, Hepatology and NutritionRue De-Candolle 16
1205 Genève, Switzerland
www.espghan.org**Working Group - Report for Gastroenterology Committee Strategy Day****Working Group Title: Neurogastroenterology, Motility and Functional Gastrointestinal Disorders SIG**

(date of completion 21/8/.2022;Silvia Salvatore)

Working Group Members and Mandates

Name	Date of entry	1 st Term	2 nd Term	Positions held within WG (e.g. Secretary treasurer etc.)	Dates held of these positions
Silvia Salvatore	2017-renew 2020			Chair	
Elena Scarpato				Secretary	
Osvaldo Borrelli				Co-chair	
Michiel Van Wijk				Co-chair	
Annamaria Staiano				Steering Committee	
Yvan Vandenplas				Steering Committee	
Marc Benninga				Steering Committee	
Nikhil Thapar				Steering Committee	

Other members/participants

Name	Email address	Date of entry	1 st Term
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Veselinka	Djurisic
Valentina	Giorgio
Lucia	Goshi
Frederic	Gottrand
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C.M. Frank	Kneepkens
Sanja	Kolacek
Aziz	Koleilat
Aco	Kostovski
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Enriqueta	Roman
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Nina	Steutel		
Caterina	Strisciuglio		
Hania	Szajewska		
Merit	Tabbers		
Renato	Tambucci		
Monica	Taulois		
Filippo	Torroni		
Vaidotas	Urbanos		
Saskia	Vande Velde		
Marinde	van Lennep		
Mario	Viera		
Tsili	Zangen		
Judith	Zeevenhooven		



Summary of Activities in 2022

A. WG meetings

Meeting	ESPGHAN WG
Location	Copenhagen – ESPGHAN
Date	22/6/2022
Main Points / Activities	<p>Summary on the SIG/WG activities, collaborations & publications After a brief welcome and introduction we discussed about:</p> <ol style="list-style-type: none"> 1. COLLABORATION AND PEDIATRIC SIG/WG TASKS FOR EUROPEAN GASTROINTESTINAL MOTILITY HUB (EUGIM-HUB) <ul style="list-style-type: none"> - Two papers on breath tests published in UEG Journal (June 2021 and February 2022) - Platform for standard operating procedures, teaching and research tools for motility gastrointestinal function tests 2. REVIEW/POSITION PAPERS FINALIZING by some members of the WG: Motility investigation tests for GI motility disorders <ul style="list-style-type: none"> - Anorectal motility tests -published in JPGN (April 2022) - Colonic investigations – published in JPGN (May 2022) - Esophageal tests, gastric tests and small bowel motility tests: final drafts 3. STUDIES ON <i>Diet and Functional Gastrointestinal Disorders (FGIDs) in children and adolescents in the Mediterranean countries: an ESPGHAN multicenter study</i> Caterina Strisciuglio summarized the results published in two papers in JPGN and Nutrients in 2022 4. 4. Retrospective study on <i>Prevalence of non-erosive reflux disease subtypes (NERD, FH, RH) in children: a European multicenter study</i> (by Elena Blasi et al.) submitted to JPGN 5. new proposal of a multicenter prospective study of non-erosive reflux disease subtypes (by Licia Pensabene) <p>ONGOING STUDIES / RESEARCH PROJECTS:</p> <ol style="list-style-type: none"> 6. SWALLOW GATEWAY NETWORK and web platform for online database and analysis of high resolution manometry tracings. Michiel Van Wijk updated on the network activity and on the importance of sharing the data, learning to use the system and understanding characteristics of pediatric motility disorders. 7. MANAGEMENT OF PEDIATRIC ACHALASIA: TREATMENT COMPARATIVE STUDY (ENDOSCOPIC BALLOON DILATION VS. PERORAL ENDOSCOPIC MYOTOMY) Michiel van Wijk updated on the protocol. AMC Ethical Committee approval obtained and recruitment started in Amsterdam. 8. SURVEY ON THE USE OF BLENDED DIETS IN CHILDREN WITH GASTROSTOMY <u>to evaluate</u> <ul style="list-style-type: none"> - the current use of blended feeds (BFs) in pediatric patients with gastrostomy - clinical indications to the use of BFs - effect on GI symptoms - complications of BFs <p>Proposed by Elena Scarpato. An online questionnaire was sent to the member of the Group.</p> 9. SURVEY ON THE USE OF PPIs FOR GERD IN INFANTS AND CHILDREN <ul style="list-style-type: none"> - Silvia Salvatore proposed to collect the data among the different Pediatric (Gastro) National Societies and to collect International data. 10. SURVEY ON THE MANAGEMENT OF IBS IN PEDIATRIC PATIENTS. DIFFERENCES IN IBS CARE COMPARED TO ADULT PATIENTS AND ACROSS EUROPE. A Survey, by ESNM, on Differences in IBS Care and Training across Europe (DICE Study) has been performed in adult patients . Silvia Salvatore proposed to the ESPGHAN WG to adapt the questionnaire for pediatric IBS to explore the variations in IBS training and

	<p>management in pediatric patients across Europe and to compare the adult and pediatric approach.</p> <p>11. FUNCTIONAL GI DISORDERS ADVICE GUIDES AND VIDEOS Silvia Salvatore proposed to prepare two advice videos (for health care professionals and parents) on management of infants and children with FGIDs. Videos could be prepared in collaboration with the Education Committee (to be contacted) and Young ESPGHAN. Young ESPGHAN agrees to collaborate to this project.</p> <p>12. GER AND SLEEP PROBLEMS - proposed by Silvia Salvatore a. A state-of the art and consensus on GER(D) and sleep problems in infants b. Retrospective data collection on infants submitted to MII-pH for sleep problems as referral symptom c. Prospective study on the effect of GER treatment on sleep problems in infants</p>
Meeting	NMF SIG/WG
Location	Online meeting
Date	2 August 2022
Main Points	Summary of the ESPGHAN WG Meeting and brief update /discussion on the ongoing studies

B. Educational activities

(i) Educational Events

Full Event Name	ADVANCES AND CONTROVERSIES IN THE MANAGEMENT OF PEDIATRIC FUNCTIONAL GASTROINTESTINAL DISORDERS
Location	Taormina
Date	9-11 December 2021
Organizer	Claudio Romano
Applied for EPP	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Applied for UEG Training Support	<input type="checkbox"/> Yes <input type="checkbox"/> No
more information if available	

Full Event Name	YOUNG ESPGHAN WEBINAR on FUNCTIONAL GASTROINTESTINAL DISORDERS
Location	Online
Date	10 August 2022
Organizer	Young ESPGHAN
Email Organizer	office@espghan.org
more information if available	Silvia Salvatore was the main speaker on "Functional Gastrointestinal Disorders in Infants"

(ii) E-Learning

Full Project Name	SWALLOW GATEWAY NETWORK and web platform for online database and analysis of high resolution manometry tracings.
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Project Timeline	
Project Leader	Taher Omari, Michiel Van Wijk

C. WG Publications / Guidelines / Position Papers

(i) Completed

Publication ID <i>(to be filled in by Office)</i>	
Full Publication Title	"European Guideline on indications, performance and clinical impact of hydrogen and methane breath tests in adult and pediatric patients: EAGEN, ESNM and ESPGHAN consensus."
Authors	Hammer HF, Fox MR, Keller J, Salvatore S, Basilisco G, Hammer J, Lopetuso L, Benninga M, Borrelli O, Dumitrascu D, Hauser B, Herszenyi L, Nakov R, Pohl D, Thapar N, Sonyi M; European H2-CH4-breath test group.
Publication Type	X Guideline X Position Paper <input type="checkbox"/> Update of existing paper Other
Journal, Year, Volume, Page Numbers	United European Gastroenterol J. 2022 Feb; 10(1):15-40.
More information if available	

Publication ID <i>(to be filled in by Office)</i>	
Full Publication Title	Anorectal Manometry in Children. The Update on the Indications and the Protocol of the Procedure.
Authors	Strisciuglio C, Banasiuk M, Salvatore S, Borrelli O, Staiano A, Van Wijk M, Vandenplas Y, Benninga MA, Thapar N.
Publication Type	<input type="checkbox"/> Guideline Position Paper <input type="checkbox"/> Update of existing paper X Other
Journal, Year, Volume, Page Numbers	J Pediatr Gastroenterol Nutr. 2022 Apr 1;74(4):440-445
More information if available	

Publication ID <i>(to be filled in by Office)</i>	
Full Publication Title	Colonic Function Investigations in Children: Review by the ESPGHAN Motility Working Group.
Authors	Rybak A, Martinelli M, Thapar N, Van Wijk MP, Vandenplas Y, Salvatore S, Staiano A, Benninga MA, Borrelli O
Publication Type	<input type="checkbox"/> Guideline X Position Paper <input type="checkbox"/> Update of existing paper X Other
Journal, Year, Volume, Page Numbers	J Pediatr Gastroenterol Nutr. 2022 May 1;74(5):681-692
More information if available	

Publication ID <i>(to be filled in by Office)</i>	
Full Publication Title	Functional Gastrointestinal Disorders in Mediterranean Countries According to Rome IV Criteria.



Authors	Strisciuglio C, Cenni S, Serra MR, Dolce P, Kolacek S, Sila S, Trivic I, Lev MRB, Shamir R, Kostovski A, Papadopoulou A, Roma E, Katsagoni C, Jojkic-Pavkov D, Salvatore S, Pensabene L, Scarpato E, Miele E, Staiano A; Collaborators: Angelo Campanozzi, and Maria Fotoulaki			
Publication Type	<input type="checkbox"/> Guideline	<input type="checkbox"/> Position Paper	<input type="checkbox"/> Update of existing paper	<input checked="" type="checkbox"/> Other
Journal, Year, Volume, Page Numbers	J Pediatr Gastroenterol Nutr. 2022 Mar 1;74(3):361-367.			
More information if available	Study supported by ESPGHAN Network Grant			

Publication ID <i>(to be filled in by Office)</i>				
Full Publication Title	Diet and Pediatric Functional Gastrointestinal Disorders in Mediterranean Countries.			
Authors	Strisciuglio C, Cenni S, Serra MR, Dolce P, Kolacek S, Sila S, Trivic I, Bar Lev MR, Shamir R, Kostovski A, Papadopoulou A, Roma E, Katsagoni C, Jojkic-Pavkov D, Campanozzi A, Scarpato E, Miele E, Staiano A.			
Publication Type	<input type="checkbox"/> Guideline	<input type="checkbox"/> Position Paper	<input type="checkbox"/> Update of existing paper	<input checked="" type="checkbox"/> Other
Journal, Year, Volume, Page Numbers	Nutrients. 2022 Jun 2;14(11):2335.			
More information if available				

(ii) in progress

Full Publication Title	Prevalence of Non-Erosive Esophageal Phenotypes in children: a European multicenter study			
Publication Timeline and Status of Application for Paper	J Pediatr Gastroenterol Nutr. 2022 under revision			
Publication Leader	Licia Pensabene			
Publication Type	<input type="checkbox"/> Guideline	<input type="checkbox"/> Position Paper	<input type="checkbox"/> Update of existing paper	<input checked="" type="checkbox"/> Other
More information if available				

Full Publication Title	Prevalence and risk factors of functional gastrointestinal disorders: cross-sectional study in Italian infants and young children			
Publication Timeline and Status of Application for Paper	J Pediatr Gastroenterol Nutr. 2022 under revision			
Publication Leaders	Elena Scarpato			
Publication Type	<input type="checkbox"/> Guideline	<input type="checkbox"/> Position Paper	<input type="checkbox"/> Update of existing paper	<input checked="" type="checkbox"/> Other
More information if available				
Full Publication Title	Pediatric gastric function tests			



Publication Timeline and Status of Application for Paper	Final Draft				
Publication Leaders	Vandenplas Y – Borrelli O, Hauser B, Scarpato E, Saliakellis E, + Steering Committee WG				
Publication Type	<input type="checkbox"/> Guideline	X	Position Paper	<input type="checkbox"/> Update of existing paper	Other
More information if available					

Full Publication Title	Pediatric esophageal function tests				
Publication Timeline and Status of Paper	Final Draft				
Publication Leaders	Van Wijk M, Salvatore S, Kornilia Nikaki, Martije Singendonk, + Steering Committee WG				
Publication Type	<input type="checkbox"/> Guideline	X	Position Paper	<input type="checkbox"/> Update of existing paper	Other
More information if available					

Full Publication Title	Pediatric small bowel function tests				
Publication Timeline and Status of Application for Paper	Preliminary draft to be completed				
Publication Leaders	Thapar N , Staiano A, Massimo Martinelli, Dao Atchariya + Steering Committee WG				
Publication Type	<input type="checkbox"/> Guideline	X	Position Paper	<input type="checkbox"/> Update of existing paper	Other
More information if available					

(iii) future topics considered in 2022-2023

Full Publication Title	SURVEY ON THE USE OF PPI FOR GERD IN INFANTS AND CHILDREN					
Publication Timeline and Status of Application for Paper	2023 Collection of the ESPGHAN data and National dissemination to be completed					
Publication Leader	Silvia Salvatore					
Publication Type	<input type="checkbox"/> Guideline		Position Paper	<input type="checkbox"/> Update of existing paper	X	Other
More information if available						

Full Publication Title	A state-of the art and expert consensus on GER(D) and sleep problems in infants				
Publication Timeline and Status of Application for Paper	2022				
Publication Leader	Silvia Salvatore				
Publication Type	<input type="checkbox"/> Guideline	<input type="checkbox"/> Position Paper	<input type="checkbox"/> Update of existing paper	X	Other
More information if available					

- **SURVEY ON THE USE OF BLENDED DIETS IN CHILDREN WITH GASTROSTOMY** to evaluate the current use of blended feeds (BFs) in pediatric patients with gastrostomy; clinical indications to the use of BFs; effect on GI symptoms and complications of BFs
Proposed by Elena Scarpato. An online questionnaire was sent to the member of the Group
- **A MULTICENTER PROSPECTIVE STUDY OF NON-EROSIVE REFLUX DISEASE SUBTYPES**
Proposed by Licia Pensabene. Protocol and participating members in progress.



- **CONSENSUS ON ESOPHAGEAL ACHALASIA FREDERIC GOTTRAND & ERNICA GROUP.**
A Joint Consensus between ESPGHAN and ERNICA on Esophageal Achalasia has been proposed, due to the lack of consensus statements on this topic. The project has been approved by the ESPGHAN Council. Paper will be published on JPGN, should be finished in 2023
- **MANAGEMENT OF PEDIATRIC ACHALASIA: TREATMENT COMPARATIVE STUDY (ENDOSCOPIC BALLOON DILATION VS. PERORAL ENDOSCOPIC MYOTOMY)**
Proposed by :Michiel van Wijk. Recruitment started in Amsterdam
- **FUNCTIONAL GI DISORDERS ADVICE GUIDES AND VIDEOS**
- **CONSENSUS ON FOOD PROTEIN INDUCED MOTILITY DISORDERS (FPIMD)**
proposed by Roberto Berni Canani. Protocol and participating members in progress. Collaboration with the ESPGHAN Nutrition and EAACI to be considered
- **SURVEY ON THE MANAGEMENT OF IBS IN PEDIATRIC PATIENTS. DIFFERENCES IN IBS CARE COMPARED TO ADULT PATIENTS AND ACROSS EUROPE**
proposed by Silvia Salvatore in collaboration with ESNM

D. Financial Report / Budget for 2022: Will be added by EPGHAN Office

Additional comments on financial report:

We have not used up the budget for the Motility WG - no face-to-face meeting was possible due to COVID emergency before the ESPGHAN meeting in Copenhagen. A face-to-face meeting during the motility Summer School (26-29 October) in London still need to be confirmed. The chance to use the 2022 budget to cover the expense to produce **FUNCTIONAL GI DISORDERS ADVICE GUIDES AND VIDEOS** need to be discussed and approved. No other proposal was received by the Group members

A. Working Group meetings (date and any main points/activities)

Meeting	Motility Summer (?) School
Location	London (and online?)
Date	7 or 10 December (to be confirmed)
Main Points / Activities	To discuss on on-going studies and new proposals: critical issues, data collection and interpretation and manuscript draft

Meeting	Early year Neurogastroenterology, Motility and Functional Gastrointestinal Disorders SIG Meeting
Location	Milan (and online) (to be confirmed and only if December meeting would not be possible)
Date	January 2023
Main Points / Activities	To discuss on on-going studies and new proposals: critical issues, data collection and interpretation and manuscript draft

Meeting	Annual ESPGHAN SIG/WG
Location	Wien
Date	17 May 2023



Main Points / Activities	To summarize the SIG/WG activities and research in progress To give the active members the opportunity to share novel data and propose collaborative new studies and projects with a face-to-face discussion
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B. Proposed Educational activities

(i) Educational Events

Full Event Name	MOTILITY SUMMER (?) SCHOOL
Location	London
Date	7-10 December 2021
Organizer	Osvaldo Borrelli and ESPGHAN
Email Organizer	osvaldo.borrelli@gosh.nhs.uk
Applied for EPP	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Applied for UEG Training Support	<input type="checkbox"/> Yes <input type="checkbox"/> No
more information if available	

(ii) E-Learning

Full Project Name	EUGIM Hub platform - Motility Function tests in children
Project Timeline	To be defined
Project Leader	Marc Fox, Marcin Banasiuk
more information if available (applied for UEG support? Etc)	UEG support

Full Project Name	FUNCTIONAL GI DISORDERS ADVICE GUIDES AND VIDEOS
Project Timeline	End of 2023
Project Leader	Silvia Salvatore
more information if available (applied for UEG support? Etc)	Young ESPGHAN Members collaboration. Educational Committee support needed. Justin Wilkes, as Public Relations and Advocacy Director of Emotive Agency has been contacted.

C. Proposed Publications (see above for further details)

Full Publication Title	Consensus on esophageal achalasia
Publication Timeline and Status of Application of Paper	2023



Publication Leader	Frederic Gottrand			
Publication Type	<input type="checkbox"/> Guideline	<input checked="" type="checkbox"/> Position Paper	<input type="checkbox"/> Update of existing paper	<input type="checkbox"/> Other
More information if available	In collaboration with ERNICA			

- SURVEY ON THE USE OF BLENDED DIETS IN CHILDREN WITH GASTROSTOMY
- A MULTICENTER PROSPECTIVE STUDY OF NON-EROSIVE REFLUX DISEASE SUBTYPES
- MANAGEMENT OF PEDIATRIC ACHALASIA: TREATMENT COMPARATIVE STUDY (ENDOSCOPIC BALLOON DILATION VS. PERORAL ENDOSCOPIC MYOTOMY)
- CONSENSUS ON FOOD PROTEIN INDUCED MOTILITY DISORDERS (FPIMD)
- SURVEY ON THE MANAGEMENT OF IBS IN PEDIATRIC PATIENTS. DIFFERENCES IN IBS CARE AND TRAINING ACROSS EUROPE.
- A STATE-OF THE ART AND EXPERT CONSENSUS ON GER(D) AND SLEEP PROBLEMS IN INFANTS

D. Financial Report / Budget for 2023:

The WG members required 6.000 euro to be used for a WG meeting to be considered in January 2023 (Milan to be confirmed - location and time will also be decided in the next months according to the chance to have a Group Meeting during the Motility School in December 2022 in London and also considering COVID emergency). Moreover, pending approval by the ESPGHAN Council and Committees, the SIG/WG budget could be used to cover the expenses related to produce advice videos (for health care professionals and parents) on management of infants and children with FGIDs. Videos will be prepared in collaboration with the Education Committee (to be contacted), Young ESPGHAN and Emotive Agency.

