


**ESPGHAN**

 European Society for Paediatric  
 Gastroenterology, Hepatology and Nutrition

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## Working Group - Report for Gastroenterology Committee Strategy Day

**Working Group Title: Esophageal atresia**

(August 18th; F Gottrand)

### Working Group Members and Mandates

Name	Date of entry	1 <sup>st</sup> Term	2 <sup>nd</sup> Term	Positions held within WG (e.g. Secretary treasurer etc.)	Dates held of these positions
Gottrand Frederic	2013	2018		Chair	2018
Krishnan Usha	2013	2018		Secretary	2018
Dall'Oglio Luigi	2013	2018		Co-chair	2018
BORRELLI OSVALDO CONTINI ANNA HADAASHA HOMAN MELEK NAMEDAR NOUVILI ORTIZ PALMER PANAYOTOU PARDO SOSA TAMBUCCI Renato VAN WIJK MICHIEL VILA MIRAENET ZANGEN ZERZERI BRINI A PAPADOPOULOU ABDELHAIL Bouharrou AMRANI Rim BAUTISTA Adolfo BENNINGA Marc CHRISTINE SPRAY KOLEILAT FRANCESCA REA ILSE BROEKERT JORG AMEDIAS	2018/2021 (list updated in July 2021 after the annual WGmeeting)				
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## Summary of Activities in 2021

### A. WG meetings (date and any main points/activities)

<b>Meeting</b>	EGID SIG annual meeting
<b>Location</b>	web
<b>Date</b>	June 22th 2021
<b>Main Points / Activities</b>	Updated information about the EOE/EA network and collaboration with EGID for comparing EoE population with and without EA (see below).

<b>Meeting</b>	EA WG annual meeting
<b>Location</b>	Webmeeting (Gotomeeting)



<b>Date</b>	June 11 <sup>th</sup> 2021
<b>Main Points / Activities</b>	<p>Introduction: what is going on in the EA planet (ERNICA, INoEA, Covid...) (Frederic Gottrand)</p> <ul style="list-style-type: none"> <li>• Update on the EoE register in EA patients: current status of agreements and inclusions; preliminary results of the first 49 cases (Frederic Gottrand, Usha Krishnan, Katialine Groff)</li> <li>• Progress of Transition consensus (Usha Krishnan)</li> <li>• Comparison of Balloon and Savary dilatation study: current status (Renato Tambucci)</li> <li>• First results of the mucosal bridge (Matthieu Antoine)</li> <li>• Announcement of the next world congress on EA in Cincinnati Oct 10-14 2022 (Mike Rutter)</li> <li>• Update of the STEPS-EA trial (Anne-Fleur van Hal)</li> </ul>
<b>Outcome of the core group meeting:</b>	<p><b>EoE register in EA patients</b>  Due to the General Data Protection Regulation issues which blocked/delayed our database (supported by an ESPGHAN networking grant) we moved the database from Sydney to Lille. All agreements (ethical, privacy...) were obtained in France, and the e-CRF ready and functioning. OK for France, Australia, Israel, Finland and Netherlands which started including cases but Formal agreements still in process/discussion/signature with many other participating centres. The data from the first 49 children were presented and discussed (many pure EA, young &lt; 2 years, 93% on PPI at diagnosis, furrows in 40%, PPI increase doses en 73%, 79% no diet therapy, remission 78% but relapse 42%). We hope increasing the number of patients and be able to compare with the retroPEER register (also supported by and ESPGHAN networking grant and collecting data from non EA EOE patients on the same format)</p> <p><b>Transition position paper (collaboration with INoEA)</b>  Steps completed: literature review, summary tables based in literature review, draft questions from subgroups, drafting sections. Recommendations by each subgroup done for Psychology and QoL, respiratory, feeding and nutrition, ongoing for the other sections (Gastroenterology, ENT, surgery). Online voting pending, writing the paper, presenting results to next InoEA congress in 2022, creation of transition App for EA patients with funding support of ERNICA</p> <p><b>ESPGHAN multicenter collaborative study Bougie vs Balloon dilators</b>  Compare the efficacy of the balloon vs bougie dilations in terms of number of dilatation sessions per patients needed to achieve stricture resolution. Secondary endpoints</p> <ul style="list-style-type: none"> <li>• Develop a multi-center database to organize an international survey about the endoscopy activity on EA patients</li> <li>• Compare the safety profile of bougie vs balloon dilations in terms of early and late complications occurrence</li> <li>• Analyze epidemiological data to describe the EA population and evaluate AS incidence and identify risk factors for developing AS</li> </ul> <p>150 patients needed (75 bougies versus 75 balloon). Database created (Red Cap) ethical agreement obtained in Italy. Inclusions just starting: 11 patients included in the database</p> <p><b>Endoscopic management of esophageal mucosal bridges in children followed for esophageal atresia</b>  Multicentre retrospective study collecting cases of mucosal bridge at the site of esophageal anastomosis and their treatment (and follow-up). 18 patients collected in 9 centers (France: Lille, Paris Robert-Debré, Lyon, Amiens, Orléans; Hannover; Vilnius; Sydney; Dubai). A few other cases to come. This is already the largest series in the world (4 cases previously reported in literature). Presentation to ESPGHAN congress, publication pending</p> <p><b>Announcement of the next world congress on EA in Cincinnati Oct 10-14 2022</b></p>



The Quad conference will associated aerodigestive conference, dysphagia conference, airway course and the world congress on EA. Sessions will focus on interdisciplinary care – Pediatric to adult transitioning is an additional focus. There will be breakout rooms for submitted papers. We plan video poster boards. The weekends either side of the conference will be for workshops and dissection courses

**STEPS-EA trial Intralesional STERoid Injections to Prevent Refractory Strictures in Patients with Esophageal Atresia**

Multicenter, single-blind randomized controlled trial, 1:1 randomization to injection with 10 mg/ml TAC (Kenacort-A 10) prior to balloon dilatation and balloon dilatation without any injection. Three main objectives: Effectiveness, Safety, Cost-effectiveness. 110 patients needed, 4 have been included yet.



## B. Educational activities

- (i) **Educational Events**  
(one table per event – please just copy and paste the tables as often as needed)



### C. WG Publications / Guidelines / Position Papers

#### (i) Completed/near completion

<b>Publication ID</b> <i>(to be filled in by Office)</i>	
<b>Full Publication Title</b>	Clinician Knowledge of Societal Guidelines on Management of Gastrointestinal Complications in Esophageal Atresia.
<b>Authors</b>	O'Donnell JEM, Purcell M, Mousa H, Dall'Oglio L, Rosen R, Faure C, Gottrand F, Krishnan U.
<b>Publication Type</b>	<input type="checkbox"/> Survey
<b>Journal, Year, Volume, Page Numbers</b>	J Pediatr Gastroenterol Nutr. 2021 Feb 1;72(2):232-238.
<b>More information if available</b>	Evaluation of our guidelines published in 2016. No so bad results!

<b>Publication ID</b> <i>(to be filled in by Office)</i>	
<b>Full Publication Title</b>	An international survey on anastomotic stricture management after esophageal atresia repair: considerations and advisory statements.
<b>Authors</b>	Ten Kate CA, Tambucci R, Vlot J, Spaander MCW, Gottrand F, Wijnen RMH, Dall'Oglio L.
<b>Publication Type</b>	<input type="checkbox"/> Survey
<b>Journal, Year, Volume, Page Numbers</b>	Surg Endosc. 2020 Aug 3. doi: 10.1007/s00464-020-07844-6. Epub ahead of print.
<b>More information if available</b>	First step of the collaborative project about comparison bougies versus balloon dilatation of esophageal strictures

<b>Publication ID</b> <i>(to be filled in by Office)</i>	
<b>Full Publication Title</b>	Frequency of Abnormal Glucose Tolerance Test Suggestive of Dumping Syndrome Following Oesophageal Atresia Repair
<b>Authors</b>	Madeleine Aumar, Frédéric Gottrand, Christel Chalouhi, Sébastien Blanc, Nadège Thomassin, Hugues Piloquet, Swellen Gastineau, Anne Schneider, Usha Krishnan, Gilles Duvoisin, Dominique Turck, Stéphanie Coopman, Laurent Michaud
<b>Publication Type</b>	<input type="checkbox"/> Clinical series
<b>Journal, Year, Volume, Page Numbers</b>	J Pediatr Gastroenterol Nutr. 2020 Jun;70(6):820-824
<b>More information if available</b>	

<b>Publication ID</b> <i>(to be filled in by Office)</i>	
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<b>Full Publication Title</b>	ERNICA Consensus Conference on the Management of Patients with Long-Gap Esophageal Atresia: Perioperative, Surgical, and Long-Term Management	
<b>Authors</b>	Dingemann C, Eaton S, Aksnes G, Bagolan P, Cross KM, De Coppi P, Fruithof J, Gamba P, Goldschmidt I, Gottrand F, Pirr S, Rasmussen L, Sfeir R, Slater G, Suominen J, Svensson JF, Thorup JM, Tytgat SHAJ, van der Zee DC, Wessel L, Widenmann-Grolig A, Wijnen R, Zetterquist W, Ure BM.	
<b>Publication Type</b>	<input type="checkbox"/> Position paper	
<b>Journal, Year, Volume, Page Numbers</b>	Eur J Pediatr Surg. 2021 Jun;31(3):214-225.	
<b>More information if available</b>	Representing ESPGHAN and EA WG in ERNICA (led by surgeons)	

**(ii) future topics considered in 2021/22**

**1 Predicting dysphagia post fundoplication**

In a recent survey (paper in preparation) 25 centres had indicated that they were interested in taking part in a multicentre study evaluating “Fundoplication outcomes in children with Esophageal Atresia”, using Pressure Flow Analysis metrics (PFA) on Swallow Gateway Platform with High Resolution Impedance Manometry (HRIM) of the esophagus • High-resolution manometry combined with impedance measurements, helps characterize the interplay between esophageal motor function and bolus clearance. • PFA can offer new insights in this area and potentially help predict the likelihood of developing dysphagia post fundoplication and help with patient selection for anti reflux surgery.

**2 Retrospective international register of anastomotic dilatation in EA (collaboration with Boston M Manfredi). Discussion in progress.**

**3 Progress/Completion of ongoing projects: EoE in EA register, dilatation balloon versus Savary, mucosal bridges, transition to adulthood, STEPS EA trial, next world congress on EA in Cincinnati Oct 10-14 2022.**



No expense in 2020 due to Covid19, all the activities via web and e-mail.

**Additional comments on financial report:**





## Outlook on Planned Activity for 2021/22

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

<b>Meeting</b>	EA WG annual meeting
<b>Location</b>	Copenhagen, just before the annual ESPGHAN meeting
<b>Date</b>	June 2022
<b>Main Points / Activities</b>	Annual meeting, discussion of results and projects

<b>Meeting</b>	Transition meeting
<b>Location</b>	Copenhagen
<b>Date</b>	June 2022
<b>Main Points / Activities</b>	Voting statements, finalizing the position paper

### Proposed Educational activities

#### (i) E-Learning

<b>Full Project Name</b>	
<b>Project Timeline</b>	
<b>Project Leader</b>	
<b>more information if available (applied for UEG support? Etc)</b>	



## B. Proposed Publications

Management of GERD in EA patients: how to improve evidence-based care for our patients?  
Marinde van Lennep, Frederic Gottrand, Christophe Faure, Taher I. Omari, Marc A. Benninga, Michiel P. van Wijk, Usha Krishnan. On behalf of the ESPGHAN EA working group and INoEA (in preparation)

Other research papers are scheduled pending on the results of the corresponding studies on mucosal bridge, EoE in EA, comparison of Savary to balloon for dilatation of anastomotic stenosis in EA patients, Kenacort injection for preventing recurrent anastomotic stenosis

The position paper on transition to adulthood in EA patients will be prepared after completion of the process (see above)

## C. Financial Report / Budget for 2022:

- **Kindly attach or copy paste your submitted budget request for 2022**

Up to 6000 euros fund for the travel of the (non espghan) members/ hotel accommodation and food / meeting room for finalizing the transiting guidelines. A one day face to face meeting in Copenhagen just before our annual WG meeting where non ESPGHAN members will be invited (Surgeon, adult GI, nurse and psychologist, family support group representatives)

