

Curriculum Vitae et Studiorum

Dr. Osvaldo Borrelli MD, PhD

Primario in Gastroenterologia Pediatrica

Direttore Dipartimento di Gastroenterologie Pediatrica

Great Ormond Street Hospital for Sick Children, Londra (United Kingdom)

Honorary Associate Professor, University College of London (UCL)

INFORMAZIONI PERSONALI

Name Osvaldo Borrelli
Data di Nascita 2 Agosto 1972
Luogo di nascita Napoli (Italia)
Nazionalità Italiana – Britannica
Stato Civile
Indirizzo Lavorativo Department of Gastroenterology
 Great Ormond Street Hospital
 Great Ormond Street, WC1N 3HJ, London, UK.

Posizione Clinica Primario in Gastroenterologia Pediatrica
 Direttore del Dipartimento di Gastroenterologia
 Great Ormond Street Hospital
 London UK.

Posizione Accademica Honorary Associate Professor
 University College of London (UCL)
 London, UK

TITOLI DI STUDIO

- **Master in Gastroenterologia ed Epatologia Pediatrica**, Università di Roma “La Sapienza” (2006). Titolo della Tesi: *Esofagite eosinofila: inquadramento diagnostico.*
- **Dottorato di Ricerca in “Ricerche Materno-Infantili e Ginecologia Oncologica”**, Università di Roma “La Sapienza” XVIII corso (2002-2005). Voto conseguito: **50/50**. Titolo della Tesi: *Efficacia clinica e funzionale a lungo termine della chirurgia laparoscopica antireflusso in età pediatrica.*
- **Specializzazione in Pediatria**, Università di Roma “La Sapienza” (1997-2002). Voto conseguito: **70/70 e lode**. Titolo della Tesi: *Infiammazione della giunzione gastroesofagea in bambini con sintomi e segni di malattia acido peptica.*
- **Laurea in Medicina e Chirurgia**, Università degli Studi di Napoli “Federico II” (1990-1996). Voto conseguito: **110/110 con lode e menzione accademica**. Titolo della Tesi: *Ruolo della manometria antroduodenodigiunale nella diagnosi della pseudoostruzione idiopatica intestinale nei bambini.*

FORMAZIONE PROFESSIONALE

Post-Laurea

- **Clinical Fellowship in Endoscopia Diagnostica ed Operativa**
 UOC di Gastroenterologia ed Endoscopia Digestiva.
 Ospedale Maggiore” Crema
 Ottobre 2002 - Febbraio 2003.
 Dir. Prof. A. Zambelli
- **Research Fellowship in Endoscopia e Motilità Gastrointestinale**
 Department of Pediatric Gastroenterology,
 Institute of Child Health and Great Ormond Street Hospital,
 University College of London, London. UK.
 October 1999 - October 2000
 Dir. Prof. PJ Milla.
- **Research Fellowship in Endoscopia e Motilità Gastrointestinale:**
 Divisione di Gastroenterologia, Unità di Motilità Intestinale,
 Ospedale “Casa Sollievo della Sofferenza”, IRCCS , S. Giovanni Rotondo
 Ottobre 1996-Agosto 1997.
 Dir. Dott. V. Annese

Pre-Laurea

- **Internato in Gastroenterologia Pediatrica**
 Dipartimento di Pediatria.
 Unità di Gastroenterologia Pediatrica. Università degli Studi di Napoli “Federico II”
 Anno: 1994-1996.
 Dir. Prof. S. Cucchiara
- **Internato in Biologia Molecolare**
 Dipartimento di Patologia e Biologia Molecolare “G. Califano”.
 Cattedra di Biologia Molecolare. Università degli Studi di Napoli “Federico II”,
 Anno: 1993-1994.
 Dir. Prof. P.P. Di Nocera.

ATTIVITA' CLINICA

- Ente: Great Ormond Street Hospital Londra, United Kingdom

Qualifica: **Direttore Dipartimento di Gastroenterologia Pediatrica**

Periodo: dal 12/09/2016 alla data odierna.

- Ente: Great Ormond Street Hospital Londra, United Kingdom
Qualifica: **Consultant (Primario) in Gastroenterologia Pediatrica**
Periodo: dal 01/08/2015 al 11/09/2016.
- Ente: Azienda Ospedaliera-Universitaria Parma, Italia
Qualifica: **Direttore UOC di Pediatria Generale e D'Urgenza**
Periodo: dal 01/07/2014 al 31/07/2015.
- Ente: Great Ormond Street Hospital (GOSH) NHS Foundation Trust, Londra (UK)
Qualifica: **Consultant (Primario) in Gastroenterologia Pediatrica**
Periodo: dal 01/09/2010 al 30/06/2014.
- Ente: Azienda Ospedaliera Policlinico "Umberto I", Roma
Qualifica: **Dirigente Medico I livello a tempo pieno con contratto di Lavoro a tempo determinato ex D. L.vo 368/01**
Periodo: dal 04/11/2009 al 31/08/2010
- Ente: Great Ormond Street Hospital (GOSH) NHS Foundation Trust, Londra (UK)
Qualifica: **Consultant (Primario) in Gastroenterologia Pediatrica**
Periodo: dal 03/11/2008 al 03/11/2009
- Ente: Azienda Ospedaliera Policlinico "Umberto I", Roma
Qualifica: **Dirigente Medico I livello a tempo pieno con contratto di Lavoro a tempo determinato ex D. L.vo 368/01**
Periodo: dal 21/03/2007 al 02/11/2008
- Ente: Azienda Ospedaliera Policlinico "Umberto I", Roma
Qualifica: **Dirigente Medico I livello a tempo pieno con contratto di Lavoro a tempo determinato ex D. L.vo 368/01**
Periodo: dal 21/03/2005 al 20/03/2007
- Ente: Azienda Ospedaliera Policlinico "Umberto I", Roma
Qualifica: **Dirigente Medico I Livello a tempo pieno con contratto di collaborazione coordinata e continuativa (CoCoCo).**
Periodo: dal 21/01/2004 al 20/01/2005

INCARICHI CLINICI/MANAGERIALI

- **Direttore Dipartimento di Gastroenterologia Pediatrica**

Great Ormond Street Hospital, Londra, UK

Settembre 2016 – data odierna

- **Lead of National Specialised Commissioning Group (NSCG) for Paediatric Intestinal Pseudoobstruction (PIPO) in children,**

Department of Paediatric Gastroenterology,

Great Ormond Street Hospital for Children, London, UK

Luglio 2019 – data Odierna

- **Lead of North Thames Paediatric Gastroenterology Network**

NHS England

Agosto 2022 – data Odierna

- **Lead Neurogastroenterology & Motility Unit**

Department of Paediatric Gastroenterology

Great Ormond Street Hospital for Children, London, UK

Agosto 2015 - Settembre 2016

- **Direttore UOC di Pediatria Generale e D'Urgenza**

Azienda Ospedaliera-Universitaria Parma, Italia

Luglio 2014 – Luglio 2015

- **Lead of Endoscopy and Intestinal Motility Service**

Department of Paediatric Gastroenterology

Great Ormond Street Hospital for Children, London, UK

Settembre 2010 – Giugno 2014

- **Responsabile del Servizio di Endoscopia e Motilità Intestinale**

Dipartimento di Pediatria, UOC Gastroenterologia ed Epatologia Pediatrica

Università degli Studi di Roma “La Sapienza

Marzo 2004 – Agosto 2010

COMPETENZE PERSONALI

- LINGUA MADRE: Italiano
- ALTRE LINGUE: Inglese

COMPETENZE PROFESSIONALI

Indagini diagnostiche eseguite in prima persona:

- Endoscopia digestiva diagnostica e operativa

(esofago-gastroduodenoscopia, colonoscopia, sanguinamenti intestinali, rimozione di corpi estranei, dilatazione, polipectomia, posizionamento di gastrostomia e gastrodigiunostomia percutanea, posizionamento manometria antroduodenodigiunale, posizionamento manometria colonica)

- Manometria esofagea convenzionale ed ad alta risoluzione
- Manometria antroduodenodigiunale convenzionale ed ad alta risoluzione
- Manometria del colon convenzionale ed ad alta risoluzione
- Manometria ano-rettale convenzionale ed ad alta risoluzione
- pH-impedenzometria esofagea
- Elettrogastrografia

POSIZIONE ACCADEMICA ATTUALE

- **Honorary Associate Professor**, University College of London (UCL).
- **Abilitazione Scientifica Nazionale a Professore di I Fascia** per il Settore Disciplinare Pediatria Generale e Neuropsichiatria Infantile (06/G1) (Bando 2012; DD n. 222/2012) conseguita il 06/11/2018 e valida fino al 06/11/2028

ATTIVITA' DIDATTICA

- Lead faculty for "**Paediatrics and Child Health: Advanced Paediatrics MSc**" University College of London (UCL). London UK (2010 - in corso)
- Lead faculty for "**Paediatric gastroenterology short course program**" University College of London (UCL). London UK (2010 - in corso)
- Insegnamento al "**MRCPCH UK**" di "**Gastroenterologia Pediatrica**" University College of London (UCL), London UK (2010 - in corso)
- Affidamento dell'insegnamento di "**Gastroenterologia Pediatrica**", II Scuola di Specializzazione in Pediatria Università degli Studi di Roma "La Sapienza" (2004 - 2010)
- Insegnamento al "**Master di II livello in "Gastroenterologia ed Epatologia Pediatrica"**" Università degli studi di Roma "La Sapienza" (2007 – 2010)
- Insegnamento al "**Master di II livello in Immunologia ed Allergologia Pediatrica**" Università degli studi di Roma "La Sapienza" (2007 – 2009)

- Insegnamento al “**Master di II livello in Neonatologia**”
Università degli studi di Roma “La Sapienza” (2007-2009)

LINEE DI RICERCA

- Fisiopatologia del Reflusso Gastroesofageo in età pediatrica
- Nuove terapie nella malattia da reflusso gastroesofageo in età pediatrica
- Spettro della malattia da reflusso gastroesofageo in età pediatrica
- Fisiopatologia della atresia esofagea
- Fisiopatologia dei disturbi funzionali gastrointestinali in età pediatrica
- Meccanismi della stipsi cronica funzionale in età pediatrica
- Disturbi della motilità intestinale indotti dalle allergie alimentari
- Fenotipizzazione della Pseudo-Ostruzione Intestinale Cronica Pediatrica (PIPO)
- Effetti della terapia nutrizionale e biologica sulla infiammazione e flora batterica intestinale in bambini affetti da malattia infiammatoria cronica intestinale
- Ruolo delle indagini radiologiche nella diagnosi and nella gestione dei disturbi della motilità intestinale

AFFILIAZIONE A SOCIETA' SCIENTIFICHE

Membro delle seguenti Società Scientifiche:

- **Società Europea di Gastroenterologia, Epatologia e Nutrizione Pediatrica (ESPGHAN):** dal 1999
- **Società Italiana di Gastroenterologia, Epatologia e Nutrizione Pediatrica (SIGENP):** dal 2000

ATTIVITA' IN AMBITO DI SOCIETA' SCIENTIFICHE O GRUPPI DI LAVORO INTERNAZIONALI

- **Membro della “Rome Foundation Pediatric Committee”** per l’aggiornamento dei Criteri di Roma V dei Disturbi Funzionali Gastrointestinali: 2021-data Odierna
- **Membro della Gastroenterology Committe della European Society of Pediatric Gastroenterology, Hepatology & Nutrition (ESPGHAN):** 2020 – data odierna
- **Membro del Consiglio Direttivo della *Società Italiana di Gastroenterologia, Epatologia e Nutrizione Pediatrica* (SIGENP):** 2019 – 2022

- **Coordinatore dell'Area di Neurogastroenterologia e Malattie Acido-Correlate della *Società Italiana di Gastroenterologia, Epatologia e Nutrizione Pediatrica* (SIGENP): 2017- 2020**
- **Co-Chair del Neurogastroenterology & Motility Working Group della *European Society of Pediatric Gastroenterology, Hepatology & Nutrition* (ESPGHAN): 2017- data odierna**
- **Membro del Consiglio Direttivo della *Società Italiana di Gastroenterologia, Epatologia e Nutrizione Pediatrica* (SIGENP): 2010 – 2012**
- **Segretario della Sezione di Neurogastroenterologia della *Società Italiana di Gastroenterologia, Epatologia e Nutrizione Pediatrica* (SIGENP): 2007- 2010**

PARTECIPAZIONE A COMITATI EDITORIALI

- **Associate Editor Journal Pediatric Gastroenterology Nutrition: Agosto 2022 - in corso. Impact Factor 2016: 3.3**
- **Associate Editor BMC Gastroenterology: Nov 2012- in corso. Impact Factor 2016: 2.67**

ATTIVITA' DI REVISIONE PER PEER-REVIEWED JOURNAL

- **Journal of Pediatrics, Journal of Pediatric Gastroenterology and Nutrition Pediatrics, Gut, American Journal of Gastroenterology, Pediatric Review, Drugs, Nature Gastroenterology**

PREMI E RICONOSCIMENTI

“Consultant of the year”

- **Great Ormond Street Hospital - Body, Bones and Mind Division, London 2020**

“HSJ Efficiency Award”

- ***Efficiency in use of diagnostic. Developing and establishing a chronic intestinal pseudoobstruction disorders diagnostic service for paediatrics*” at Third HSJ Efficiency Award, NHS England, London 2013**

“Poster of Distinction”

- ***Long term esophageal function in children with refractory gastroesophageal reflux disease after laparoscopic Nissen fundoplication*” presented at American Gastroenterological Association (AGA) Digestive Disease Week: Orlando, May 18-21, 2003.**

- “*Cow’s-milk challenge increases weakly acidic reflux in children with cow’s-milk allergy and GERD*” presented at 5th European Pediatric Motility Meeting, Amsterdam, Holland 6-8 December 2011

Young Investigator's Award

- “*Gastric myoelectrical abnormalities of neurogenic type detected by Electrogastrography (EGG) in Progressive Muscular Dystrophy (PDM)*” presented at The International Electrogastrography Society (IEGGS). Fifth International Workshop on Electrogastrography, International Electrogastrography Society: Washington, May 15, 1997.

PhD SUPERVISION

- **Dr Atchariya.Chanpong** – “The clinical use of small intestinal function tests in gastrointestinal disorders”. 2019
- **Mrs Alex Stewart** – SaFE: swallowing, feeding and eating in OA/TOF. A mixed methods exploration of early feeding in repaired oesophageal atresia/trachea-oesophageal fistula”. 2019
- **Mrs Joanne Brind** – “Long-term medical and social outcomes of children with chronic intestinal pseudo-obstruction in the UK”. 2017

INTERNATIONAL STUDENT SUPERVISION

- Valentina Giorgio (Italy)
- Efstratios Saliakellis (Greece)
- Fernanda Cristofori (Italy)
- Matilde Pescarin (Italy)
- Renato Tambucci (Italy)
- Paolo Quitadamo (Italy)
- Anna Rybak (Polland)
- Francesco Valitutti (Italy)
- Antonio Pizzol (Italy)
- Federica Pruccoli (Italy)
- Teresa De Chio (Italy)
- Marcella Pesce (Italy)
- Marta Rosario (Portugal)

- Andreia Nita (Polland)
- Mouise Zaupper (Sweden)

COLLABORAZIONI NAZIONALI ED INTERNAZIONALI

- Prof. Carlo Di Lorenzo, Nationwide Children's Hospital, Columbus, Ohio (USA)
- Prof. Marc Benninga, Amsterdam Medical Center, Amsterdam (Holland)
- Prof. Nikil Taphar, Queensland Children's Hospital, Brisbane (Australia)
- Ptof. Annamaria Staiano, University of Naples "Federico II", Naples (Italy)
- Prof. Samuel Nurko, Harvard Medical School, Boston, Massachusetts (USA)
- Prof. Nathalie Rommel, KU, Leuven (Belgium)
- Prof. Phil Dinnings and Prof. Taher Omari, Flinders University, Adelaide (Australia)

GRANT ALLOCATIONS

- **Bowel Research UK Grant:** "Utility of Motility-MRI in the Assessment of Foregut Neuromuscular Function in Children with Paediatric Intestinal Pseudo-Obstruction"
£ 50.000
- **ESPGHAN** (European Society of Paediatric Gastroenterology, Hepatology and Nutrition) **Networking Grant:** "Establishing a European database for Paediatric Intestinal Pseudo-obstruction".
£ 25.000

AUTHOR'S OVERVIEW

- <http://orcid.org/0000-0003-0241-0508>
- Hirsch-index (Scopus) 32
- Hirsch-index ultimi 15 anni (Scopus) 23
- Publicationi "Peer reviewed" 120
- Numero Totale di Citazioni (escluso self-citations): 3379

ARTICOLI IN EXTENSO "PEER-REVIEWED"

1. Isoldi S, Di Nardo G, Mallardo S, Parisi P, Raucci U, Tambucci R, Quitadamo P, Salvatore S, Felici E, Cisarò F, Pensabene L, Banzato C, Strisciuglio C, Romano C, Fusco P, Rigotti F,

- Sansotta N, Caimmi S, Savasta S, Zuin G, Di Stefano M, Provera S, Campanozzi A, Rossi P, Gatti S, Corpino M, Alvisi P, Martellosi S, Suppiej A, Gandullia P, Verrotti A, Terrin G, Pacenza C, Fornaroli F, Comito D, D'Arrigo S, Striano P, Raviglione F, Carotenuto M, Orsini A, Belcastro V, Di Corcia G, Raieli V, Ferilli MAN, Ruscitto C, Spadoni E, Grosso S, D'Alonzo R, Papa A, Pavone P, Meli M, Velardita M, Mainetti M, Vanacore N, **Borrelli O**. *Cyclic vomiting syndrome in children: a nationwide survey of current practice on behalf of the Italian Society of Pediatric Gastroenterology, Hepatology and Nutrition (SIGENP) and Italian Society of Pediatric Neurology (SINP)*. **Ital J Pediatr.** 2022 Aug 30;48(1):156. doi: 10.1186/s13052-022-01346-y
2. Valitutti F, Lindley K, Saliakellis E, Chanpong A, Pesce M, Rybak A, Thapar N, **Borrelli O**. *Intra- and inter-observer agreement of high resolution antroduodenal manometry in pediatric patients among single center experts.* **J Pediatr Gastroenterol Nutr.** 2022 Aug 25. doi: 10.1097/MPG.0000000000003599. Epub ahead of print.
 3. Quitadamo P, Anselmi F, Mantegazza C, Tambucci R, Campanozzi A, Malamisura M, Raucci U, Tipo V, Dolce P, Saccomani MD, Chiaro A, Mancini V, Felici E, Orizio P, Parma B, Salvatore S, **Borrelli O**. *Hematemesis in Infants: The First Evidence-Based Score to Predict the Need for Timely Endoscopy.* **Pediatr Emerg Care.** 2022;38:e1245-e1250
 4. Thomassen RA, Luque V, Assa A, **Borrelli O**, Broekaert I, Dolinsek J, Martin-de-Carpi J, Mas E, Miele E, Norsa L, Ribes-Koninckx C, Saccomani MD, Thomson M, Tzivinikos C, Verduci E, Bronsky J, Haiden N, Köglmeier J, de Koning B, Benninga MA. *An ESPGHAN Position Paper on the Use of Low-FODMAP Diet in Pediatric Gastroenterology.* **J Pediatr Gastroenterol Nutr.** 2022;75:356-368
 5. Chanpong A, **Borrelli O**, Thapar N. *Recent advances in understanding the roles of the enteric nervous system.* **Fac Rev.** 2022 Mar 24;11:7. doi: 10.12703/r/11-7
 6. Di Nardo G, Cremon C, Staiano A, Stanghellini V, **Borrelli O**, Strisciuglio C, Romano C, Mallardo S, Scarpato E, Marasco G, Salvatore S, Zenzeri L, Felici E, Pensabene L, Sestito S, Francavilla R, Quitadamo P, Baldassarre M, Giorgio V, Tambucci R, Ziparo C, Parisi P, Barbaro MR, Barbara G; Neurogastroenterology Study Group of the Italian Society of Pediatric Gastroenterology Hepatology, Nutrition (SIGENP). *Role of inflammation in pediatric irritable bowel syndrome.* **Neurogastroenterol Motil.** 2022 Mar 27:e14365. doi: 10.1111/nmo.14365
 7. Chanpong A, **Borrelli O**, Thapar N. *Hirschsprung disease and Paediatric Intestinal Pseudo-obstruction.* **Best Pract Res Clin Gastroenterol** 2022;56-57:101765.

8. Rybak A, Martinelli M, Thapar N, Van Wijk MP, Vandenplas Y, Salvatore S, Staiano A, Benninga MA, **Borrelli O**. *Colonic Function Investigations in Children: Review by the ESPGHAN Motility Working Group. J Pediatr Gastroenterol Nutr. 2022;74:681-692*
9. Rochira I, Chanpong A, Biassoni L, Easty M, Morris E, Saliakellis E, Lindley K, Thapar N, Rybak A, **Borrelli O**. *Transpyloric propagation and liquid gastric emptying in children with foregut dysmotility. Neurogastroenterol Motil. 2022:e14334. doi: 10.1111/nmo.14334*
10. Assa A, **Borrelli O**, Broekaert I, Saccomani MD, Dolinsek J, Martin-de-Carpi J, Mas E, Miele E, Sila S, Thomson M, Tzivinikos C, Benninga MA. *Gastrointestinal Committee of ESPGHAN. Helicobacter pylori-negative Chronic Gastritis in Children: A Systematic Review. J Pediatr Gastroenterol Nutr. 2022;74:956-967*
11. Strisciuglio C, Banasiuk M, Salvatore S, **Borrelli O**, Staiano A, Van Wijk M, Vandenplas Y, Benninga MA, Thapar N. *Anorectal Manometry in Children. The Update on the Indications and the Protocol of the Procedure. J Pediatr Gastroenterol Nutr. 2022 Jan 7. doi: 10.1097/MPG.0000000000003379. Epub ahead of print.*
12. Pesce M, Puoti MG, Rybak A, Andreozzi M, Bruzzese E, Sarnelli G, **Borrelli O**. *Pharmacological intervention for paediatric irritable bowel syndrome. Expert Opin Pharmacother. 2022;23:91-103*
13. Mas E, **Borrelli O**, Broekaert I, Martin de-Carpi J, Dolinsek J, Miele E, Pienar C, Koninckx CR, Thomassen RA, Thomson M, Tzivinikos C, Benninga MA. *Drugs in Focus: Octreotide Use in Children With Gastrointestinal Disorders. J Pediatr Gastroenterol Nutr. 2022;74:1-6.*
14. Broekaert IJ, **Borrelli O**, Dolinsek J, Martin-de-Carpi J, Mas E, Miele E, Pienar C, Ribes-Koninckx C, Thomassen R, Thomson M, Tzivinikos C, Benninga M. *An ESPGHAN Position Paper on the Use of Breath Testing in Paediatric Gastroenterology. J Pediatr Gastroenterol Nutr. 2022;74:123-137.*
15. Mutalib M, Kammermeier J, Vora R, **Borrelli O**. *Prucalopride in intestinal pseudo obstruction, paediatric experience and systematic review. Acta Gastroenterol Belg. 2021 Jul-Sep;84(3):429-434. doi: 10.51821/84.3.002.*
16. Chanpong A, Cronin H, Rampling D, Ashworth M, Eaton S, Rybak A, Saliakellis E, Lindley KJ, **Borrelli O**, Thapar N. *Enhancing the utility of antroduodenal manometry in pediatric intestinal pseudo-obstruction. Neurogastroenterol Motil. 2022 May;34(5):e14259..*
17. 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. *European guideline on indications, performance, and clinical impact of hydrogen and methane breath tests in adult and pediatric patients: European Association for*

- Gastroenterology, Endoscopy and Nutrition, European Society of Neurogastroenterology and Motility, and European Society for Paediatric Gastroenterology Hepatology and Nutrition consensus. **United European Gastroenterol J** 2022;10:15-40.*
18. Di Chio T, Sokollik C, Peroni DG, Hart L, Simonetti G, Righini-Grunder F, **Borrelli O**. *Nutritional Aspects of Pediatric Gastrointestinal Diseases. **Nutrients**. 2021 Jun 19;13(6):2109. doi: 10.3390/nu13062109.*
 19. Keller J, Hammer HF, Afolabi PR, Benninga M, **Borrelli O**, Dominguez-Munoz E, Dumitrascu D, Goetze O, Haas SL, Hauser B, Pohl D, Salvatore S, Sonyi M, Thapar N, Verbeke K, Fox MR; European 13C-breath test group. *European guideline on indications, performance and clinical impact of ¹³C-breath tests in adult and pediatric patients: An EAGEN, ESNM, and ESPGHAN consensus, supported by EPC. **United European Gastroenterol J**. 2021 Jun;9(5):598-625. doi: 10.1002/ueg2.12099.*
 20. Assa A, Benninga MA, **Borrelli O**, Broekaert I, de Carpi JM, Saccomani MD, Dolinsek J, Mas E, Miele E, Thomson M, Tzivinikos C; Gastrointestinal Committee of ESPGHAN. *Gastrointestinal Perspective of COVID-19 in Children - an Updated Review. **J Pediatr Gastroenterol Nutr**. 2021;73:299-305.*
 21. Roberts SE, Morrison-Rees S, Thapar N, Benninga MA, **Borrelli O**, Broekaert I, Dolinsek J, Martin-de-Carpi J, Mas E, Miele E, Pienar C, Ribes-Koninckx C, Thomassen RA, Thomson M, Tzivinikos C, Thorne K, John A, Williams JG. *Systematic review and meta-analysis: the incidence and prevalence of paediatric coeliac disease across Europe. **Aliment Pharmacol Ther**. 2021;54:109-128.*
 22. Quitadamo P, Thapar N, Nardo GD, Pescarin M, Bertelli L, Tortora C, **Borrelli O**, De Giorgio R, Staiano A. *Is there a relationship between joint hypermobility and gastrointestinal disorders in children? **Turk J Pediatr**. 2021;63:307-313.*
 23. Cococcioni L, Pensabene L, El-Khouly S, Chadokufa S, McCartney S, Saliakellis E, Kiparissi F, **Borrelli O**. *Ferric carboxymaltose treatment for iron deficiency anemia in children with inflammatory bowel disease: Efficacy and risk of hypophosphatemia. **Dig Liver Dis**. 2021;53:830-834.*
 24. Puoti MG, Rybak A, Kiparissi F, Gaynor E, **Borrelli O**. *SARS-CoV-2 and the Gastrointestinal Tract in Children. **Front Pediatr**. 2021 Feb 22;9:617980. doi: 10.3389/fped.2021.617980.*
 25. Raucci U, **Borrelli O**, Di Nardo G, Tambucci R, Pavone P, Salvatore S, Baldassarre ME, Cordelli DM, Falsaperla R, Felici E, Ferilli MAN, Grosso S, Mallardo S, Martinelli D, Quitadamo P, Pensabene L, Romano C, Savasta S, Spalice A, Strisciuglio C, Suppiej A, Valeriani M, Zenzeri L, Verrotti A, Staiano A, Villa MP, Ruggieri M, Striano P, Parisi P. *Cyclic*

- Vomiting Syndrome in Children. Front Neurol. 2020;11:583425. doi: 10.3389/fneur.2020.583425.*
26. Rybak A, Sethuraman A, Nikaki K, Koeglmeier J, Lindley K, **Borrelli O**. *Gastroesophageal Reflux Disease and Foregut Dysmotility in Children with Intestinal Failure. Nutrients. 2020;12(11):3536. doi: 10.3390/nu12113536*
 27. Quitadamo P, Giorgio V, Zenzeri L, Baldassarre M, Cresi F, **Borrelli O**, Salvatore S. *Apnea in preterm neonates: what's the role of gastroesophageal reflux? A systematic review. Dig Liver Dis. 2020;52:723-729.*
 28. Heitmann PT, Wiklendt L, Thapar N, **Borrelli O**, Di Lorenzo C, Yacob DT, Baaleman DF, Vriesman MH, Nurko S, El-Chammas K, Kaul A, Benninga MA, Koppen IJN, Wattchow DA, Brookes SJH, Dinning PG. *Characterization of the colonic response to bisacodyl in children with treatment-refractory constipation. Neurogastroenterol Motil. 2020;32:e13851.*
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 11. P. Quitadamo, E. Saliakellis, **O. Borrelli**, N. Thapar. *Neurogastroenterology and Motility Disorders*. ***Textbook of Pediatric Gastroenterology, Hepatology, and Nutrition*** – Editors A. Sibal and S. Gopalan – Jaypee Brother Medical Publisher. First Edition 2015 – Pages: 78-92. ISBN 978-93-5152-740-4.
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15. S. Cucchiara, **O. Borrelli**, G. Di Nardo G. *Normal motility and development of the esophageal neuroenteric system*. In: ***Walker's Pediatric Gastroenterology Disease 5th edition***. BC Decker 2008. ISBN: 978-1-55009-364-3
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SELEZIONE DI RELAZIONI SU INVITO A MEETINGS NATIONALI ED INTERNAZIONALI

1. **Paediatric Intestinal Pseudo-obstruction.** Annual meeting of Chilean Society of Gastroenterology, Hepatology and Nutrition. 28 Agosto 2022. (Virtual Conference)
2. **Gastro-esophageal reflux.** European Society of Gastroenterology, Hepatology and Nutrition (ESPGHAN) GI Summer School. July 14-15, 2022. Jerusalem, Israel
3. **Paediatric Intestinal Pseudo-obstruction.** European Society of Gastroenterology, Hepatology and Nutrition (ESPGHAN) GI Summer School. July 14-15, 2022. Jerusalem, Israel
4. **Imaging in paediatric gastrointestinal motility disorders.** 54th Annual meeting. European Society of Gastroenterology, Hepatology and Nutrition (ESPGHAN). Copenhagen , 22-25 June 2022
5. **The role of neuroimmune interaction in the stomach/small bowel in patients with dyspeptic symptoms.** 54th Annual meeting. European Society of Gastroenterology, Hepatology and Nutrition (ESPGHAN). Copenhagen , 22-25 June 2022
6. **Diagnostic Method.** European Forum on Visceral Myopathy. 27-29 April 2022. Camogli (Italy)
7. **Eosinophils and Gut Motility.** British Society of Gastroenterology, Hepatology and Nutrition (BSPGHAN). 22-25 April 2022, Birmingham, UK
8. **Allergy and the Gastrointestinal Tract.** 10th Middle East Course of Pediatric Gastroenterology, Hepatology & Nutrition. 25–27 January 2022 (Virtual Conference)
9. **Functional defecation disorders: colonic and anorectal factors.** European Society of Gastroenterology, Hepatology and Nutrition (ESPGHAN). Monotematic Conference on Functional GI Disorders. December 09–11, 2021, Taormina, Italy
10. **Malattie funzionali gastrointestinali nell'età di transizione: Lower gastrointestinal.** FISMAD 27° Congresso Nazionale delle Malattie Digestive. Virtual Edition 22-25 Settembre
11. **News/update sui disturbi della motilità esofago-gastrica.** XXVIII National Meeting of Italian Society of Paediatric Gastroenterology, Hepatology and Nutrition (SIGENP): Virtual Edition. 15-18 Settembre 2020
12. **Therapeutic and diagnostic algorithms for intractable constipation.** 6th World Congress of Paediatric Gastroenterology, Hepatology and Nutrition (WPGHAN). 02 – 05 June 2021 Vienna, Austria

13. **Reflusso, rigurgito e ruminazione.** 76° Congresso Italiano di Pediatria. Rome 25-28 May 2021
14. **Gastroparesis: differential diagnosis, presentation and management.** 1st World Congress on Pediatric Neurogastroenterology and Motility. 12-13 April 2021. Adelaide, Australia
15. **Theoretical motility.** UK virtual national intestinal transplant symposium. 13 March 2021
16. **Motility disorders and investigations.** Peds gastro study day. 25 February 2021
17. **Eosinophilic Gastrointestinal Disease.** 9th Middle East Course of Pediatric Gastroenterology, Hepatology and Nutrition “Virtual”. 25-28 January 2021
18. **Eosinophilic Esophagitis.** 9th Middle East Course of Pediatric Gastroenterology, Hepatology and Nutrition “Virtual”. 25-28 January 2021
19. **Food Allergy and Functional Gastrointestinal Disease.** #ALLERGYONLINE: Practical Management of Food Allergy in Children. Webinar. 18th November 2020
20. **Management of infant regurgitation: What do we know for daily practice?** Pulse Live. Webinar 18th November 2020.
21. **New classification of functional gastrointestinal disorders.** Corso di Alta Formazione in Gastroenterologia, Epatologia e Nutrizione Pediatrica (...e altro ancora). Webinar 24 October 2020
22. **How to study the motility in children.** First National meeting of Italian Society of Neurogastroenterology and Motility. 25-26 September 2020
23. **Pathophysiology of functional gastrointestinal disorders.** Webinar Course “Aperigastro”. 28 May 2020
24. **Functional disorders: abdominal pain and constipation.** Allergic Gastrointestinal Disease. London 13-14 November 2019
25. **Current and future strategies for managing colic and functional gastrointestinal disorders.** Practical Management of Food allergy in Children. London 4th November 2019
26. **Cyclic Vomiting Syndrome.** XXVI National Meeting of Italian Society of Paediatric Gastroenterology, Hepatology and Nutrition (SIGENP): Verona (ITA) 16-19 October 2019
27. **Upper GI Bleeding: Gastro Vs Surgical.** Lewis Spitz and Edward Kiely Symposium and 71st Simpson Smith Memorial Lecture. London 24th September 2019
28. **Chronic Constipation.** Curso Internacional de Gastroenterología Y Nutrition Infantil. Claves Diagnósticas en Gastroenterología Infantil. Viernes (Chile) 13 de Septiembre 2019

29. **Gastro-oesophageal Reflux.** Curso Internacional de Gastroenterología Y Nutrition Infantil. Claves Diagnósticas en Gastroenterología Infantil. Viernes (Chile) 13 de Septiembre 2019
30. **Functional abdominal Pain.** Curso Internacional de Gastroenterología Y Nutrition Infantil. Claves Diagnósticas en Gastroenterología Infantil. Viernes (Chile) 13 de Septiembre 2019
31. **Transition to Adult: Dysphagia.** International Conference on Oesophageal Atresia (INoEA). Rome (ITA): 24-25 June 2019
32. **Practical approach to abdominal pain and chronic constipation.** Practical Paediatrics Update, London 13-14 June 2019
33. **Eosinophilic Esophagitis.** 52nd Annual meeting. European Society of Gastroenterology, Hepatology and Nutrition (ESPGHAN). Glasgow, 5-8 June 2019
34. **Pediatric Intestinal Pseudoobstruction.** International Meeting “Chronic Gastrointestinal Diseases from the child to the adult”. Sorrento (ITA): 4-6 April 2019.
35. **Refractory Constipation.** XXV National Meeting of Italian Society of Paediatric Gastroenterology, Hepatology and Nutrition (SIGENP): Salerno (ITA) 4-6 Ottobre 2018
36. **Pediatric Intestinal Pseudo-obstruction.** Network of Intestinal Failure and Intestinal Transplantation Meeting, Birmingham 28th–29th 2018
37. **Pediatric Intestinal Pseudoobstruction.** Severe gastrointestinal motility disorders: focus on Pediatric Intestinal Pseudo-Obstruction and Hirschsprung disease: Roma 11 Giugno 2018
38. **Gastroparesis** - VIII European Paediatric Gastrointestinal Motility Meeting. Londra (UK): 22-24 Marzo 2018
39. **Antroduodenal manometry and MRI.** VIII European Paediatric Gastrointestinal Motility Meeting. Londra (UK): 22-24 Marzo 2018
40. **Disordini severi della motilità intestinale: dalla gastroparesi alla pseudo-ostruzione.** XXIV Congresso Nazionale della Società Italiana di Gastroenterologia, Epatologia e Nutrizione Pediatrica (SIGENP): Roma 5-7 Ottobre 2017
41. **Techniques available for colonic motility assessment.** ESPGHAN (European Society of Paediatric Gastroenterology, Hepatology and Nutrition) Gastrointestinal Motility Hands On training Course (Training in GI motility testing). London, 26th–27th September 2017
42. **Gastric pacing and transabdominal electrical stimulation.** ESPGHAN (European Society of Paediatric Gastroenterology, Hepatology and Nutrition) Gastrointestinal

- Motility Hands On training Course (Training in GI motility testing). London, 26th–27th September 2017
43. **Therapeutic Options for Severe Constipation.** 21st LASPGHAN (Latino-American Society of Pediatric Gastroenterology, Hepatology and Nutrition) Meeting. Oporto (Portugal), 22-24 June 2017
 44. **Proton Pump Inhibitors (PPI) and PPI responsive esophageal eosinophilia (PPI-REE): New Insights.** 50th ESPGHAN (European Society of Pediatric Gastroenterology, Hepatology and Nutrition) Annual meeting. Prague (Czech Republic), 10-13 Maggio 2017
 45. **Functional abdominal pain disorders: a practical approach.** Postgraduate Course. 50th ESPGHAN (European Society of Pediatric Gastroenterology, Hepatology and Nutrition) Annual meeting. Prague, Czech Republic, 10 Maggio 2017
 46. **A national approach to investigating and managing children with intestinal dysmotility.** 3rd National BAPEN/BSPGHAN Paediatric Intestinal Failure and Rehabilitation Day. Newcastle (UK), 2nd December 2016
 47. **The child not doing well after surgery for Hirschsprung's disease: The search for the correct diagnosis.** BSPGHAN (Belgium Society of Pediatric Gastroenterology, Hepatology and Nutrition) Annual Meeting. Mechelen (Belgium) 22 October 2016
 48. **Colonic motility in childhood as studied by high-resolution manometry: technical aspects.** Colonic motility in health and chronic constipation: from bench to bedside. Leuven (Belgium) 8th September 2016
 49. **Colonic manometry. From performance to the analysis.** 2nd PETDW International Workshop Therapeutic Digestive Endoscopy in Children. Rome (ITA) 8-10 June 2016
 50. **Antroduodenal manometry.** ESPGHAN (European Society of Pediatric Gastroenterology, Hepatology and Nutrition) Postgraduate course on Practical techniques in Pediatric Gastroenterology and Hepatology. Atene (Relatore) 23-24 Maggio 2016
 51. **Colonic Manometry.** ESPGHAN (European Society of Pediatric Gastroenterology, Hepatology and Nutrition) Postgraduate course on Practical techniques in Pediatric Gastroenterology and Hepatology. Atene (Relatore) 23-24 Maggio 2016
 52. **GERD: how to manage non acid reflux.** 7th European Pediatric GI Motility Meeting. Sorrento, October 1-3, 2015
 53. **Modulating Microbiota in Children.** XVI National Meeting GISMAD (Gruppo Italiano per lo Studio della Motilità dell'Apparato Digerente). Roma, 7-9 Maggio 2015
 54. **Gastric Pacing.** 6th European Pediatric GI Motility Meeting. 3-5 October 2013, Brussels, Belgium

55. **How to study the motility of the lower gastrointestinal tract.** 6th European Pediatric GI Motility Meeting. 3-5 October 2013, Brussels, Belgium
56. **Intestinal motility.** 5th Probiotics & Prebiotics: New Foods. Rome 13-15 September 2009
57. **Constipation and colonic dysmotility in childhood.** Postgraduate Course, 42nd Annual Meeting of the European Society of Pediatric Gastroenterology, Hepatology and Nutrition (ESPGHAN). Budapest, June 2009.

PARTECIPAZIONE ALLA ORGANIZZAZIONE DI MEETING SCIENTIFICI NAZIONALI ED INTERNAZIONALI

- **Annual Meeting of British Society of Paediatric Gastroenterology, Hepatology and Nutrition (BSPGHAN).** London 2023 date TBC
- **ESPGHAN (European Society of Paediatric Gastroenterology, Hepatology and Nutrition) Motility Winter School.** London 7-10 December 2022
- **VIII European Paediatric Gastrointestinal Motility Meeting.** London 22-24 March 2018.
- **ESPGHAN (European Society of Paediatric Gastroenterology, Hepatology and Nutrition) Gastrointestinal Motility Hands On training Course (Training in GI motility testing).** London 26th-27th September 2017
- **The Paediatric PH-Impedance Study Day.** London 24th February 2017
- **Managing Constipation in children.** London 9th December 2016
- **Abdominal Pain in children.** London 6th September 2016
- **Abdominal Pain in Children: Clinical concepts, diagnosis and practical management.** London 15th June 2015
- **Childhood constipation.** London 30th September 2014
- **Gastro-oesophageal reflux disease in children: the pathway to surgery.** London 7th May 2014
- **The Paediatric pH-impedance Study day.** London 30th April 2014
- **APG Annual Update on Paediatric Gastroenterology.** London 24th October 2013
- **Practical Paediatric Gastroenterology.** London 23rd and 24th November 2012
- **Gut motility disorders study – theory and practical.** London 17th October 2012
- **Controversies in Gastro-oesophageal reflux disease.** London 20 April 2012.
- **pH-impedance course.** Institute of Child Health (ICH). London 15 giugno 2011.

- **Practical Paediatric Gastroenterology.** Institute of Child Health (ICH). London, 29-30 Settembre 2011.
- **Practical Paediatric Gastroenterology.** Institute of Child Health (ICH). London. 1-2 Ottobre 2010.
- **Gastro Course.** Institute of Child Health (ICH). London, 8-9 October 2009.
- **Giornate della Gastroenterologia Pediatrica Romana,** Centro Nazionale delle Ricerche (CNR), Roma 27-29 Marzo 2008.
- **First International Symposium on Pediatric Inflammatory Bowel Disease,** Roma 23-25 Novembre 2006.
- **Forum Nazionale dei “Giovani Ricercatori della Società Italiana di Gastroenterologia, Epatologia e Nutrizione Pediatrica (SIGENP),** Caprarola 5-7 dicembre 2005.
- **Forum Nazionale di Gastroenterologia ed Epatologia Pediatrica “Il pediatra incontra il bambino gastroenterologico”.** Università di Roma “La Sapienza”, Roma 20-21 Ottobre 2005.
- **Corso Teorico-Pratico di Formazione in Gastroenterologia Pediatrica,** Roma 4-6 Novembre 2004.
- **II Corso Residenziale Avanzato di Specializzazione in Gastroenterologia Pediatrica,** Università di Roma “La Sapienza”, Roma 23-25 Ottobre 2003.
- **I Corso Residenziale Avanzato di Specializzazione in Gastroenterologia Pediatrica,** Università di Roma “La Sapienza”, Roma 10-12 Ottobre 2002.
- **International Meeting: “Update in Pediatric Gastrointestinal Endoscopy”,** Università degli Studi di Roma “La Sapienza”, Roma 24 Novembre 2001

Londra 4 Settembre 2022

