

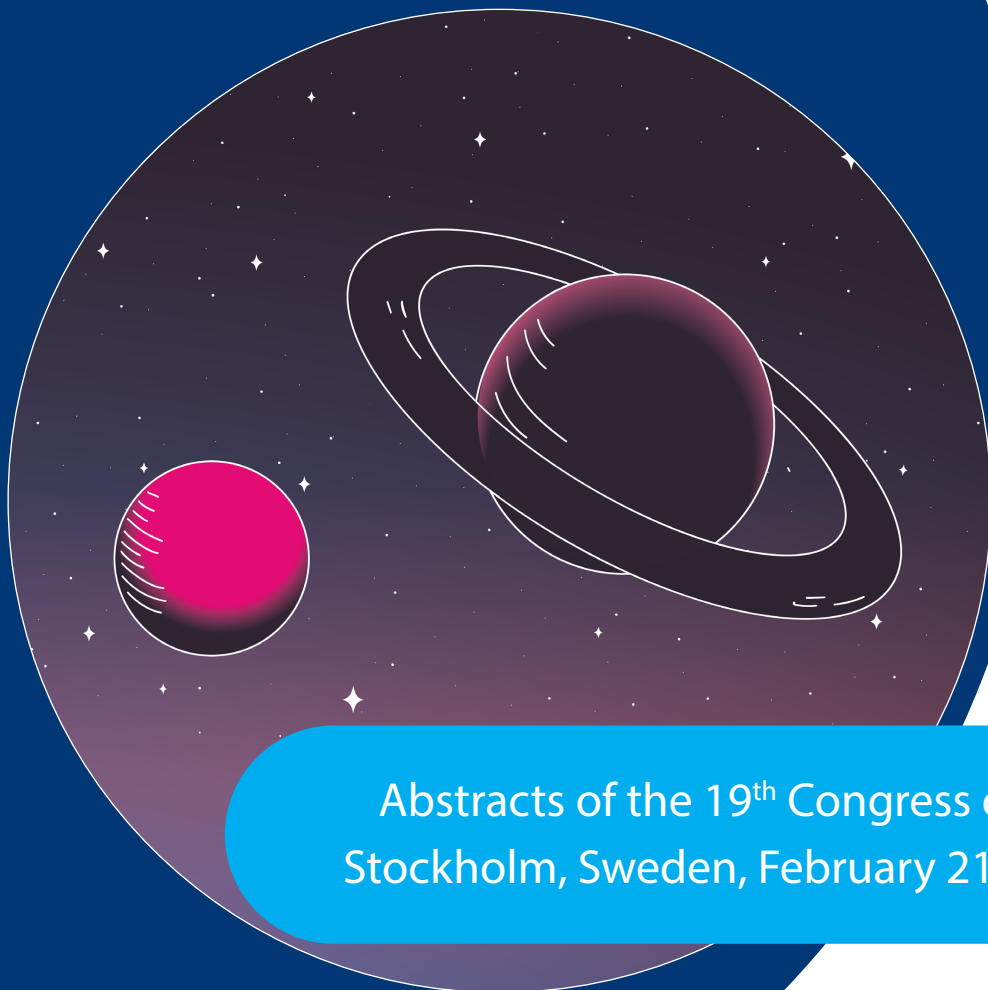


European
Crohn's and Colitis
Organisation

Volume 18
Issue S1
January, 2024

JCC

JOURNAL of CROHN'S and COLITIS



Abstracts of the 19th Congress of ECCO
Stockholm, Sweden, February 21-24, 2024

www.ecco-ibd.eu

OXFORD
UNIVERSITY PRESS

JOURNAL OF CROHN'S AND COLITIS

International Journal Devoted to Inflammatory Bowel Diseases
Official Journal of the European Crohn's and Colitis Organisation

Editor-in-Chief

Laurence J. Egan (Ireland)

Volume 18/S1 (2024)

**Abstracts of the 19th Congress of ECCO
Stockholm, Sweden, February 21-24, 2024**

© 2024 European Crohn's and Colitis Organisation. Published by Oxford University Press. All rights reserved.

This journal and the individual contributions contained in it are protected under copyright by the European Crohn's and Colitis Organisation (ECCO) and the following terms and conditions apply to their use:

Photocopying. Single photocopies of single articles may be made for personal use as allowed by national copyright laws. Permission of the Publisher and payment of a fee is required for all other photocopying, including multiple or systematic copying, copying for advertising or promotional purposes, resale, and all forms of document delivery. Special rates are available for educational institutions that wish to make photocopies for non-profit educational classroom use. For information on how to seek permission visit www.oxfordjournals.org/permissions.

Derivative Works. Subscribers may reproduce tables of contents or prepare lists of articles including abstracts for internal circulation within their institutions. Permission of the Publisher is required for resale or distribution outside the institution. Permission of the Publisher is required for all other derivative works, including compilations and translations (please consult www.oxfordjournals.org/permissions).

Electronic Storage or Usage. Permission of the Publisher is required to store or use electronically any material contained in this journal, including any article or part of an article (www.oxfordjournals.org/permissions). Except as outlined above, no part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior written permission of the Publisher.

Notice. No responsibility is assumed by the Publisher for any injury and/or damage to persons or property as a matter of products liability, negligence or otherwise, or from any use or operation of any methods, products, instructions or ideas contained in the material herein. Because of rapid advances in the medical sciences, in particular, independent verification of diagnoses and drug dosages should be made. Although all advertising material is expected to conform to ethical (medical) standards, inclusion in this publication does not constitute a guarantee or endorsement of the quality or value of such product or of the claims made of it by its manufacturer.



JOURNAL OF CROHN'S AND COLITIS

International Journal Devoted to Inflammatory Bowel Diseases
Official Journal of the European Crohn's and Colitis Organisation

Editor-in-Chief

Laurence J. Egan, Ireland

Associate Editors

Raja Atreya, Germany
Johan Burisch, Denmark
Gionata Fiorino, Italy
Anne Griffiths, Canada

Ailsa Hart, UK
Charlotte Hedin, Sweden
Peter Lakatos, Hungary/Canada
James Lindsay, UK

Randy Longman, USA
Tim Raine, UK
Gerhard Rogler, Switzerland

Editorial Board

Matthieu Allez, France
Mariangela Allocca, Italy
Aurelien Amiot, France
Ashwin Ananthakrishnan, USA
Jane Andrews, Australia
Vito Annese, Italy
Alessandro Armuzzi, Italy
Robert Battat, Canada
Filip Baert, Belgium
Willem Bemelman, The Netherlands
Shomron Ben-Horin, Israel
Dominik Bettenworth, Germany
Luc Biedermann, Switzerland
Stefanos Bonovas, Italy
Peter Bossuyt, Belgium
Christianne Buskens, The Netherlands
Michele Carvello, Italy
Adam Cheifetz, USA
Ferdinando D'Amico, Italy
Geert D'Haens, The Netherlands
André D'Hoore, Belgium
Lissy de Ridder, The Netherlands
Axel Dignass, Germany
Glen Doherty, Ireland
Eugeni Domènech, Spain
Iris Dotan, Israel
Erwin Dreesen, Belgium
Rami Eliakim, Israel
Marc Ferrante, Belgium
Claudio Fiocchi, USA
Paolo Gionchetti, Italy

Fernando Gomollón, Spain
Richard Hansen, UK
Pieter Hindryckx, Belgium
Peter Irving, UK
Pascal Juillerat, Switzerland
Sunanda Kane, USA
Konstantinos Karmiris, Greece
Konstantinos Katsanos, Greece
Julien Kirchgesner, France
Uri Kopylov, Israel
Paulo Kotze, Brazil
Torsten Kucharzik, Germany
Ebbe Langholz, Denmark
Giovanni Latella, Italy
Edward Loftus, USA
Mark Löwenberg, The Netherlands
Theodore Lytras, Italy
Christian Maaser, Germany
Fernando Magro, Portugal
Gerassimos Mantzaris, Greece
John Marshall, Canada
Gordon Moran, UK
Siew Ng, Hong Kong
Nurulamin Noor, UK
Kerri Novak, Canada
Konstantinos Papamichail, USA
Maikel Peppelenbosch, The Netherlands
Laurent Peyrin-Biroulet, France
Nicolas Pierre, France
Valerie Pittet, Switzerland
Lieven Pouillon, Belgium

Florian Rieder, USA
Xavier Roblin, France
Frank Ruemmele, France
Mark Samaan, UK
Alicia Sambuelli, Argentina
William Sandborn, USA
Jack Satsangi, UK
Michael Scharl, Switzerland
Jürgen Schölmerich, Germany
Stefan Schreiber, Germany
Philippe Seksik, France
Bo Shen, USA
Marianne Spalinger, Switzerland
Hilary Steinhart, Canada
Flavio Steinwurz, Brazil
Andreas Sturm, Germany
Herbert Tilg, Austria
Simon Travis, UK
Dan Turner, Israel
Curt Tysk, Sweden
Bella Ungar, Israel
Christien Janneke van der Woude, The Netherlands
Niels Vande Casteele, USA
Morten Vatn, Norway
Stephan Vavricka, Switzerland
Bram Verstockt, Belgium
Mamoru Watanabe, Japan
Gillian Watermeyer, South Africa
Bahtiyar Yilmaz, Switzerland

Editor Emeritus

Miquel A. Gassull, Spain, 2007–2014

Assistant Editor Emeritus

Eduard Cabré, Spain, 2007–2014

Aims and Scope

The Journal of Crohn's and Colitis is the official journal of the European Crohn's and Colitis Organisation (ECCO) and is concerned with the dissemination of knowledge on clinical, basic science and innovative methods related to Inflammatory Bowel Diseases. The journal publishes original articles, review papers, editorials, leading articles, ECCO Guidelines, viewpoints, short reports and letters to the editor. All submitted material is subject to a peer-review process.

Editor-in-Chief

Laurence J. Egan (Ireland)

Associate Editors

Raja Atreya (Germany)
Johan Burisch (Denmark)
Gionata Fiorino (Italy)
Anne Griffiths (Canada)
Ailsa Hart (UK)
Charlotte Hedin (Sweden)

Peter Lakatos (Hungary/Canada)
James Lindsay (UK)
Randy Longman (USA)
Tim Raine (UK)
Gerhard Rogler (Switzerland)

Manuscript submissions. Authors are requested to submit their original manuscripts and figures online via <https://mc.manuscriptcentral.com/ecco-jcc>. Instructions for authors can be found at https://academic.oup.com/ecco-jcc/pages/General_Instructions. Submission implies that the material is original, that is not being considered for publication elsewhere and that all authors concur with the submission. Multiple submission is not acceptable to the Editor of this journal.

Subscription Information. A subscription to *Journal of Crohn's and Colitis* comprises twelve issues, published monthly. Prices include postage by surface mail, and for subscribers outside the UK delivery is by Standard Air. Annual Subscription Rate (Volume 18, 12 issues): Information on subscription pricing can be found on the journal website at: <https://academic.oup.com/ecco-jcc/subscribe>

Full prepayment, in the correct currency, is required for all orders. Orders are regarded as firm and payments are not refundable. Subscriptions are accepted and entered on a complete volume basis. Claims cannot be considered more than *four* months after publication or date of order, whichever is later. All subscriptions in Canada are subject to GST. Subscriptions in the EU may be subject to European VAT. If registered, please supply details to avoid unnecessary charges. For Subscriptions that include online versions, a proportion of the subscription price may be subject to UK VAT. Personal rate subscriptions are only available if payment is made by personal credit card and delivery is to a private address.

For further information, please contact: Journals Customer Service Department. Oxford University Press, Great Clarendon Street, Oxford OX2 6DP, UK. Email: jnl.cust.serv@oup.com. Tel (and answerphone outside normal working hours): +44 (0)1865 353907. **In the US, please contact:** Journals Customer Service Department, Oxford University Press, 4000 CentreGreen Way, Suite 310, Cary, NC 27513, USA. Email: jnlorders@oup.com. Tel (and answerphone outside normal working hours): 800 852 7323 (toll-free in USA/ Canada). **In Japan, please contact:** Journals Customer Service, Oxford University Press, 4-5-10-8F Shiba, Minato-ku, Tokyo 108-8386, Japan. Tel. +81 3 5444 5858. Email: custserv.jp@oup.com.

Methods of payment. (i) Bank transfer to Barclays Bank Plc, Oxford Group Office, Oxford (bank sort code 20-65-18); overseas only Swift code BARC GB 22 (GB£ Sterling to account no. 70299332, IBAN GB89BARC20651870299332; US\$ Dollars to account no. 66014600, IBAN GB27BARC20651866014600; EU€ Euros to account no. 78923655, IBAN GB16BARC20651878923655). (ii) Credit card (Mastercard, Visa, Switch or American Express).

Supplements, reprints and corporate sales. For requests from industry and companies regarding supplements, bulk article reprints, sponsored subscriptions, translation opportunities, please email special.sales@oup.com. visit <http://oupmediainfo.com/#!/contact>.

Permissions. For information on how to request permissions to reproduce articles/information from this journal, please visit https://academic.oup.com/journals/pages/access_purchase/rights_and_permissions.

Advertising. Inquiries about advertising should be sent to Advertising and Special Sales. Email: jnladvertising@oup.com. Tel: +44 (0) 1865 354767. Industry advertisements are not affiliated with the European Crohn's and Colitis Organisation (ECCO)

Environmental and ethical policies. Oxford Journals, a division of Oxford University Press, is committed to working with the global community to bring the highest quality research to the widest possible audience. Oxford Journals will protect the environment by implementing environmentally friendly policies and practices wherever possible. Please see https://academic.oup.com/journals/pages/about_us/ethical_policies

Typeset by Newgen Knowledge Works Pvt. Ltd, Chennai, India.
Printed by Bell & Bain, Glasgow, UK

JOURNAL OF CROHN'S AND COLITIS

International Journal Devoted to Inflammatory Bowel Diseases

Official Journal of the European Crohn's and Colitis Organisation

Gratefully acknowledging the dedicated scientific peer review work for the ECCO'24 Congress Abstracts and the ECCO Fellowships & Grants call round 2023:

Michel Adamina, Switzerland
Konrad Aden, Germany
Timon Adolf, Austria
Waqas Afif, Canada
Manasi Agrawal, United States of America
Souhaila Al Khodor, United States of America
Behrooz Ziad Alizadeh, The Netherlands
Matthieu Allez, France
Marina Aloï, Italy
Nynne Nyboe Andersen, Denmark
Vito Annese, Italy
Elisabetta Antonelli, Italy
Naila Arebi, United Kingdom
Ingrid Arijis, Belgium
Alessandro Armuzzi, Italy
Amit Assa, Israel
Raja Atreya, Germany
Mohamed Attia, Denmark
Irit Avni Biron, Israel
Oliver Bachmann, Germany
Filip J. Baert, Belgium
Palle Bager, Denmark
Pamela Baldin, Italy
Marko Banic, Croatia
Manuel Barreiro-de Acosta, Spain
Zsolt Barta, Hungary
Willem Bemelman, The Netherlands
Shomron Ben-Horin, Israel
David Bernardo, Spain
Talat Bessissow, Canada
Dominik Bettenworth, Germany
Laura Beyer-Berjot, France
Luc Biedermann, Switzerland
Raf Bisschops, Belgium
Mathilde Body-Malapel, France
Bernd Bokemeyer, Germany
Ferdinando Bonfiglio, Sweden
Paula Borralho Nunes, Portugal
Fabrizio Bossa, Italy
Peter Bossuyt, Belgium
Yoram Bouhnik, France
Arno Bourgonje, The Netherlands
Arnaud Bourreille, France
Oliver Brain, United Kingdom
Mariana Bronze, Portugal
Nicolas Buchs, United Kingdom
Daniel Craig Burger, Australia
Johan Burisch, Denmark
Emanuel Burri, Switzerland
Christianne J. Buskens, The Netherlands
Mohammed Zaem Cader, United Kingdom
Emma Calabrese, Italy
Franck Carbonnel, France
Ignazio Castagliuolo, Italy
Che-Yung Chao, Australia
María Chaparro, Spain
Usha K. Chauhan, Canada
Dimitrios Christodoulou, Greece
Isabelle Cleynen, Belgium
Jennie Clough, United Kingdom
Francesco Colombo, Italy
Jesús Cosín-Roger, Spain
Mario Cottone, Italy
Anneline Cremer, Belgium
Silvija Cukovic-Cavka, Croatia
Wladyslaw Czuber-Dochan, United Kingdom

Isadora Alexandra da Luz Rosa, Portugal
Jens Frederik Dahlerup, Denmark
Ferdinando D'Amico, Italy
Silvio Danese, Italy
Robin Dart, United Kingdom
Andrew Day, New Zealand
Anthony De Buck Van Overstraeten, Canada
Joline Elisabeth De Groof, The Netherlands
Gert De Hertogh, Belgium
Lissy de Ridder, The Netherlands
Annemarie C. De Vries, The Netherlands
Parakkal Deepak, India
Clemens Dejaco, Austria
Alexandre Denadai Souza, Italy
Anjan Dhar, United Kingdom
Vincenza Di Leo, Italy
Lesley Dibley, United Kingdom
Mihai Mircea Diclescu, Romania
Jonathan Digby-Bell, United Kingdom
Axel Dignass, Germany
Gerard Dijkstra, The Netherlands
Renata D'Inca, Italy
Nik John Sheng Ding, Australia
Glen Doherty, Ireland
Tomáš Douda, Czechia
Gabriele Dragoni, Italy
David Drobne, Slovenia
Ioannis Drygiannakis, Greece
Robert Karol Dudkowiak, Poland
Piotr Michał Eder, Poland
Philipp Efken, Germany
Laurence Egan, Ireland
Odul Egritas Gurkan, Turkey
Alaa El-Hussuna, Denmark
Pierre Ellul, Malta
Johanna Caroline Hankje Escher, The Netherlands
Celia Escudero-Hernández, Germany
Omar Darius Faiz, United Kingdom
Roger M. Feakins, United Kingdom
Samuel Raimundo Fernandes, Portugal
Marc Ferrante, Belgium
Gionata Fiorino, Italy
Florian Froehlich, Switzerland
Damian Garcia-Olmo, Spain
Maria Gazouli, Greece
Krisztina B. Gecse, Hungary
Daniel Ginard Vicens, Spain
Javier Gisbert, Spain
Lihi Godny, Israel
Hannah Gordon, United Kingdom
Gregor Gorkiewicz, Austria
Martin Götz, Germany
Anne Griffiths, Canada
João Guedelha Sabino, Portugal
Ana Gutiérrez Casbas, Spain
Yael Haberman Ziv, Israel
Jonas Halfvarson, Sweden
Barry Hall, Ireland
Paul Harrow, United Kingdom
Ailsa Hart, United Kingdom
Petra Hartmann, Germany
Annika Hausmann, Germany
Charlotte Rose Hedin, Sweden
Ahmed Nabil Hegazy, Germany
Paul Henderson, United Kingdom
Joaquín Ernesto Hinojosa Del Val, Spain

Ayal Hirsch, Israel
Christoph Högenauer, Austria
Marte Høivik, Norway
Rogério Hossne, Brazil
Petr Hruz, Switzerland
Wen Hu, China
Marietta Iacucci, Italy
Ana Ibarra, Spain
Peter Miles Irving, United Kingdom
Susanna Jäghult, Sweden
Lars-Petter Jelsness-Jorgensen, Norway
Tine Jess, Denmark
Njegica Jojic, Serbia
Pascal Juillerat, Switzerland
Christina Kapizioni, Greece
Konstantinos Karmiris, Greece
Konstantinos Katsanos, Greece
Amelia Kellar, Canada
Nicholas Alexander Kennedy, United Kingdom
Peter Kienle, Germany
Jarosław Kierkuś, Poland
Julien Kirchgessner, France
Taku Kobayashi, Japan
Uri Kopylov, Israel
Paulo Gustavo Kotze, Brazil
Iskren Andreev Kotzev, Bulgaria
Elias Kouroumalis, Greece
Monika Krzak, United Kingdom
Péter Laszlo Lakatos, Hungary
Ebbe Langholz, Denmark
Steven Leach, Australia
Amy Lightner, United States of America
James Lindsay, United Kingdom
Miranda Lomer, United Kingdom
Francesca Maccioni, Italy
Fernando Magro, Portugal
Ignacio Marín Jimenez, Spain
Urko Martinez Marigorta, Spain
Gianluca Matteoli, Belgium
Saurabh Mehandru, United States of America
Jun Miyoshi, Japan
Aart Mookhoek, Switzerland
Won Moon, Korea
Urs Mörbe, Germany
Mark Morrison, Australia
Pär Myrelid, Sweden
Olga Maria Nardone, United Kingdom
Nurulamin Noor, United Kingdom
Selwyn (Shmuel) Odes, Israel
Tom Øresland, Norway
Yves Panis, France
Ioannis Papaconstantinou, Greece
Konstantinos Papamichail, Greece
Claire Pardieu, United Kingdom
Gareth Parkes, United Kingdom
Miles Parkes, United Kingdom
Chirag Patel, United Kingdom
Paul Pavli, Australia
Polychronis Pavlidis, Greece
Kristina Pavlovska, North Macedonia
Natalia Pedersen, Denmark
Harald Peeters, Belgium
Gianluca Pellino, Italy
Maikel Petrus Peppelenbosch, The Netherlands
Zahira Pérez Martínez, Spain
Katarina Pihl Lesnovska, Sweden

Theresa Pizarro, United States of America
Juris Pokrotnieks, Latvia
Lieven Pouillon, Belgium
Nick Powell, United Kingdom
Jan Preiss, Germany
Maria Beatrice Principi, Italy
Taha Qazi, United States of America
Natalia Queiroz, Brazil
Timothy Raine, United Kingdom
Zhihua Ran, China
Eva Rath, Germany
Catherine Reenaers, Belgium
Simon Reider, Austria
Walter Reinisch, Canada
Sophie Restellini, Switzerland
Jonathan Michael Rhodes, United Kingdom
Elena Ricart Gomez, Spain
Lene Buhl Riis, Denmark
Firas Rinawi, Israel
Frédéric Ris, Switzerland
Pauline Riviere, France
Xavier Roblin, France
Iago Rodríguez-Lago, Spain
Gerhard Rogler, Germany
Francesca Rosini, Italy
Simone Saibeni, Italy
Azucena Salas, Spain
Mark Samaan, United Kingdom
Janneke N. Samsom, The Netherlands
Bruce E Sands, United States of America
Chen Sarbagili Shabat, Israel
Guillaume Savoye, France

Franco Scaldaferri, Italy
Carsten Schmidt, Germany
Michael Schumann, Germany
Shaji Sebastian, United Kingdom
Philippe Seksik, France
Hany Shehab, Egypt
Dror Shouval, Israel
Spyridon Siakavellas, Greece
Britta Siegmund, Germany
Heitor Siffert de Souza, Brazil
Rotem Sigall-Boneh, Israel
Dimitrios E. Sigounas, Greece
Jurgita Skieceviciene, Lithuania
Harry Sokol, France
Hermona Soreq, Israel
Paula Cristina Sousa, Portugal
Marianne Spalinger, Switzerland
Andreas Sturm, Germany
Kohei Suzuki, Japan
Herbert Tilg, Austria
Joana Tinoco da Silva Torres, Portugal
Murat Toruner, Turkey
Philip Tozer, United Kingdom
Simon Travis, United Kingdom
John Triantafyllidis, Greece
Marie Truyens, Belgium
Markus Tschurtschenthaler, Germany
Dan Turner, Israel
Christos Tzivinikos, Greece
Holm Uhlig, United Kingdom
Ryan Ungaro, United States of America
Lukas Unger, Austria

Mathieu Uzzan, France
Vassilis Valatas, Greece
Johan Van Limbergen, Belgium
Patrick Van Rheenen, The Netherlands
Niels Vande Casteele, Belgium
Stephan R. Vavricka, Switzerland
Gigi Veereman, Belgium
Séverine Vermeire, Belgium
Bram Verstockt, Belgium
Sare Verstockt, Belgium
Nikolaos Viazis, Greece
Sophie Vieujean, Belgium
Ida Vind, Denmark
Boris Vucelic, Croatia
Catherine Wall, New Zealand
Alissa Jane Walsh, Australia
Zhigang Wang, China
Manon Wildenberg, The Netherlands
Rune Levring Wilkens, Denmark
David Wilson, United Kingdom
Eytan Wine, Canada
Henit Yanai, Israel
Andres Yarur, United States of America
Nuha Ali Yassin, United Kingdom
Anat Yerushalmy-Feler, Israel
Bahtiyar Yilmaz, Turkey
Yamile Zabana, Spain
Edyta Sylwia Zagórowicz, Poland
Christos Zavos, Greece
Sebastian Zeissig, Germany

JOURNAL OF CROHN'S AND COLITIS



International Journal Devoted to Inflammatory Bowel Diseases
Official Journal of the European Crohn's and Colitis Organisation

VOLUME 18, ISSUE S1
January 2024

Contents

Oral Presentations	i11
Digital Oral Presentations	i72
DOP Session 1: Quality measures, monitoring, modeling	i72
DOP Session 2: Clinical trials 1	i90
DOP Session 3: Biomarkers in IBD	i106
DOP Session 4: Diagnostics & Biomarkers	i123
DOP Session 5: Basic Science	i138
DOP Session 6: Clinical trials 2	i155
DOP Session 7: Genetics, Omics & Clinical trials	i172
DOP Session 8: Clinical trials 3	i189
DOP Session 9: Clinical trials 4	i205
DOP Session 10: Basic Science - Microbiology and more	i226
Poster Presentations	i241
Basic Science	i241
Clinical: Diagnosis and Outcome	i490
Clinical: Therapy and Observation	i998
Epidemiology	i1945
Genetics	i2108
Microbiology	i2128
Nurses Presentations	i2185
ECCO Fellowships & Grants	i2246

Epidemiology

Abstract citation ID: jjad212.1261

P1131

Epidemiological Characteristics of Inflammatory Bowel Diseases in The Last Decade: Multi-Center Türkiye Data

F. Akyuz¹, B.F. Agargun², O. Atug³, T. Eskazan⁴, I. Yuksel⁵, K. Kochan⁶, S. Barutcu⁷, M. Asil⁸, C. Demirtas⁹, B. Bozkurt¹⁰, E. Cankurtaran⁴, A. Degirmenci¹¹, A. Kefeli¹², M. Ustaoglu¹³, M.K. Keskin¹⁴, M. Sahin¹⁵, M. Ucer⁹, T. Erurker Ozturk¹⁶, G. Dervis Hakim¹⁷, A. Uyanikoglu¹⁸, S. Poturoglu¹⁵, I.H. Kalkan¹⁹, M. Gulten¹⁴, M. Arhan²⁰, T. Kav²¹, M. Toruner²², H. Akpinar²³, H. Issever²⁴, A.F. Celik⁴

¹Istanbul Faculty of Medicine- Istanbul University, Division of Gastroenterohepatology- Department of Internal Medicine, Istanbul, Turkey ²Istanbul Faculty of Medicine- Istanbul University, Department of Internal Medicine, Istanbul, Turkey ³Marmara University- School of Medicine, Department of Gastroenterology, Istanbul, Turkey ⁴Istanbul University-Cerrahpasa- Cerrahpasa School of Medicine, Department of Internal Medicine- Division of Gastroenterology, Istanbul, Turkey ⁵Ankara Bilkent City Hospital, Department of Gastroenterology, Ankara, Turkey ⁶Bezmialem University School of Medicine, Gastroenterology Department, Istanbul, Turkey ⁷Gaziantep University Faculty of Medicine, Department of Gastroenterology, Gaziantep, Turkey ⁸Necmettin Erbakan University- Meram Faculty of Medicine, Department of Internal Medicine- Division of Gastroenterology, Konya, Turkey ⁹Health Sciences University- Bakırköy Sadi Konuk Training and Research Hospital, Department of Gastroenterology, Istanbul, Turkey ¹⁰Erciyes University Faculty of Medicine, Department of Gastroenterology, Kayseri, Turkey ¹¹Haydarpasa Numune Training and Research Hospital, Department of Gastroenterology, Istanbul, Turkey ¹²Gaziosmanpasa University, Department of Gastroenterology, Tokat, Turkey ¹³Ondokuz Mayıs University- Faculty of Medicine, Department of Gastroenterology, Samsun, Turkey ¹⁴Uludag University Faculty of Medicine, Department of Gastroenterology, Bursa, Turkey ¹⁵Basaksehir Cam and Sakura City Hospital, Gastroenterology Department, Istanbul, Turkey ¹⁶Denizli State Hospital, Department of Gastroenterology, Denizli, Turkey ¹⁷Tepecik Training and Research Hospital, Gastroenterology Clinic, Izmir, Turkey ¹⁸Medical Faculty of Harran University, Department of Gastroenterology, Sanliurfa, Turkey ¹⁹TOBB University of Economics and Technology, Department of Gastroenterology, Ankara, Turkey ²⁰Gazi University Faculty of Medicine, Department of Gastroenterology, Ankara, Turkey ²¹Hacettepe University Faculty of Medicine, Department of Gastroenterology, Ankara, Turkey ²²Ankara University School of Medicine, Department of Gastroenterology, Ankara, Turkey ²³Dokuz Eylül University Faculty of Medicine, Department of Gastroenterology, Izmir, Turkey ²⁴Istanbul Faculty of Medicine- Istanbul University, Department of Public Health, Istanbul, Turkey

Background: This study aims to assess the past decade's epidemiology of inflammatory bowel disease (IBD) patients in Türkiye and identify year-to-year variations.

Methods: A total of 3463 patients diagnosed between 2010 and 2022 were included. The patients' demographic and phenotypic characteristics, smoking habits, and family histories were assessed. Differences between geographic regions and age groups were analyzed.

Results: Among patients, 1523 (44%) had Crohn's disease (CD), 1768 (51.1%) had ulcerative colitis (UC), and 23 (0.7%) had indeterminate colitis (Table). Male proportions were higher in both CD and UC patients, with the most common age range for diagnosis being 21-30 years (Figure). Over time, newly diagnosed cases and rates per population increased according to Turkish Statistical Institute data (Figure). Patients were divided into two groups based on diagnosis years (2010-2016 and 2016-2022), CD initially dominated, but UC prevalence grew in the last 6 years ($p < 0.001$). Recently diagnosed CD patients showed higher inflammatory involvement (78.0% vs. 63.4%; $p < 0.001$), and the inflammatory phenotype rose post-2016 (75.2% vs. 60.4%; $p < 0.001$). CD patients had more smokers (24.2% vs. 10.9%; $p < 0.001$) and family history of IBD (6.8% vs. 4.5%; $p = 0.004$) than UC patients. Patients over 60 years old had a higher male gender ratio (64.4% vs. 55.9%; $p < 0.001$) and UC frequency (62.2% vs. 52%; $p < 0.001$) compared to those under 60 years old. The inflammatory phenotype in CD patients was lower in those under 60 years old compared to those over 60 years old (70.4% vs. 85.4%; $p < 0.001$). The frequency of pancolitis in UC patients was lower in those over 60 years old (31.3% vs. 41.4%; $p < 0.001$).

Conclusion: In Türkiye, IBD is more prevalent in males and is frequently diagnosed between ages 20 to 30. In CD, inflammatory and ileocolonic involvement is most common, while in UC, pancolitis is observed. The earlier diagnosis peak and increased pancolitis in UC patients might relate to tertiary centers' inclusion with transition clinics and focus on severe cases. Recently, newly diagnosed UC cases have notably surpassed CD cases.

Figure(s)/Table(s): see next page

Table

		Crohn's Disease [n=1523 (%44.0)]	Ulcerative Colitis [n=1768 (%51.1)]	Indeterminate Colitis [n=23 (%0.7)]	Total [n=3463]
		Frequency (%)	Frequency (%)	Frequency (%)	Frequency (%)
Gender	Female	632 (%41.5)	761 (%43)	9 (%39.1)	1402 (%42.3)
	Male	891 (%58.5)	1007 (%57)	14 (%60.9)	1912 (%57.7)
Follow-up Center	Private	7 (%0.5)	8 (%0.5)	0 (%0)	15 (%0.5)
	State	329 (%22.9)	443 (%26.8)	6 (%26.1)	778 (%25)
	University	1099 (%76.6)	1205 (%72.8)	17 (%73.9)	2321 (%74.5)
Age (years) Mean±SD; M(range)		42±15; 40(72)	44±16; 42(72)	47±15; 46(47)	43±15; 41(72)
Follow-up Duration (months) Mean±SD; M(range)		54±50; 37(332)	46±46; 29(324)	58±62; 33(216)	50±48; 34(332)
Disease Duration (months) Mean±SD; M(range)		68±57; 60(483)	66±62; 51(739)	73±57; 60(215)	67±60; 56(739)
Age at Diagnosis (years) Mean±SD; M(range)		30±16; 28 (81)	32±17; 30(76)	36±19; 35(65)	31±17; 29(81)
Phenotype	Inflammatory	782 (%55.5)	0 (%0)	0 (%0)	782 (%55.5)
	Fistulizing	358 (%25.4)	0 (%0)	0 (%0)	358 (%25.4)
	Stricturing	270 (%19.1)	0 (%0)	0 (%0)	270 (%19.1)
Location of involvement	Distal	0 (%0)	499 (%30.4)	3 (%13.6)	502 (%16.3)
	Left Colon	10 (%0.7)	475 (%29)	1 (%4.5)	486 (%15.8)
	Pancolitis	0 (%0)	643 (%39.3)	2 (%9.1)	644 (%20.9)
	Backwash+Pancolitis	0 (%0)	22 (%1.3)	2 (%9.1)	24 (%0.8)
	Ileal	503 (%35.4)	0 (%0)	1 (%4.5)	504 (%16.4)
	Ileocolonic	527 (%37.1)	0 (%0)	6 (%27.3)	533 (%17.3)
	Colonic	135 (%9.5)	0 (%0)	6 (%27.3)	141 (%4.6)
	Ileocolonic+Perianal	116 (%8.2)	0 (%0)	0 (%0)	116 (%3.8)
	Colonic+Perianal	34 (%2.4)	0 (%0)	1 (%4.5)	35 (%1.1)
	Isolated Upper GI	4 (%0.3)	0 (%0)	0 (%0)	4 (%0.1)
	Upper GI+Ileocolonic	32 (%2.3)	0 (%0)	0 (%0)	32 (%1)
	Upper GI+Ileal+Perianal	4 (%0.3)	0 (%0)	0 (%0)	4 (%0.1)
	Ileal+Perianal	51 (%3.6)	0 (%0)	0 (%0)	52 (%1.7)
	Jejunal	5 (%0.4)	0 (%0)	0 (%0)	5 (%0.2)
Family History of IBD	None	1420 (%93.2)	1689 (%95.5)	21 (%91.3)	3130 (%94.4)
	Yes	103 (%6.8)	79 (%4.5)	2 (%8.7)	184 (%5.6)
Smoking Status	Non-smoker	997 (%65.5)	1371 (%77.5)	16 (%69.6)	2384 (%71.9)
	Active Smoker	369 (%24.2)	193 (%10.9)	4 (%17.4)	566 (%17.1)
	Ex-smoker	157 (%10.3)	204 (%11.5)	3 (%13)	364 (%11)

*IBD, inflammatory bowel disease; M, median; SD, standard deviation

Figure(s)/Table(s): see next page

Figure

