



Current Therapeutic Challenges in IBD Therapy

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Zurich^{UZH}



Disclosures

- Presenter's Name: **Gerhard Rogler**
- **Consulting** to Abbvie, Augurix, BMS, Boehringer, Calypso, Celgene, FALK, Ferring, Fisher, Genentech, Gilead, Janssen, MSD, Novartis, Pierre Fabre, Pfizer, Phadia, Roche, UCB, Takeda, Tillots, Vifor, Vital Solutions and Zeller;
- **Speaker's honoraria** from Astra Zeneca, Abbvie, FALK, Janssen, MSD, Pierre Fabre, Pfizer, Phadia, Takeda, Tillots, UCB, Vifor and Zeller;
- **Educational grants and research grants** from Abbvie, Ardeypharm, Augurix, Calypso, FALK, Flamentera, MSD, Novartis, Pfizer, Roche, Takeda, Tillots, UCB and Zeller.
- **Co-founder and Head of Scientific AdBoard:** PharmaBiome

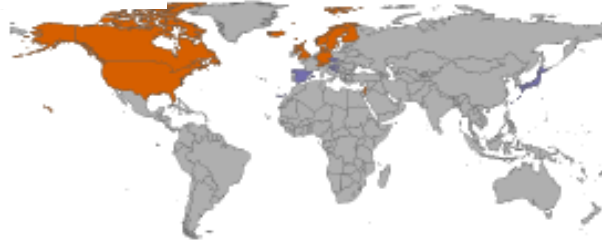


Increasing prevalence of IBD worldwide

1950 to 1959



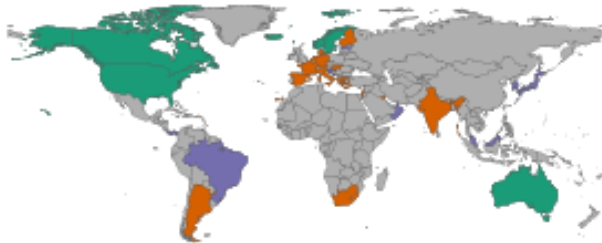
1960 to 1969



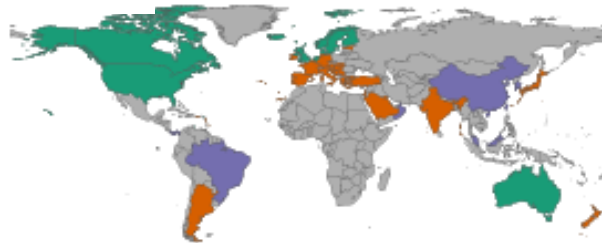
1970 to 1979



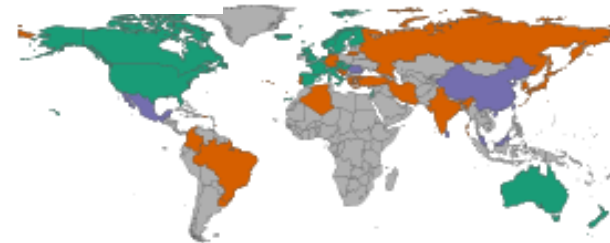
1980 to 1989



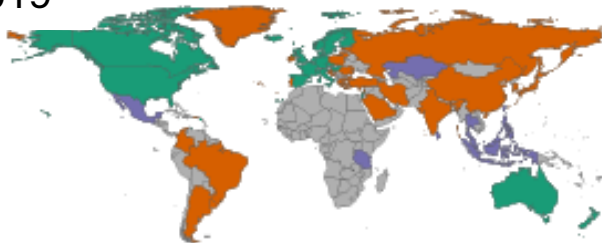
1990 to 1999



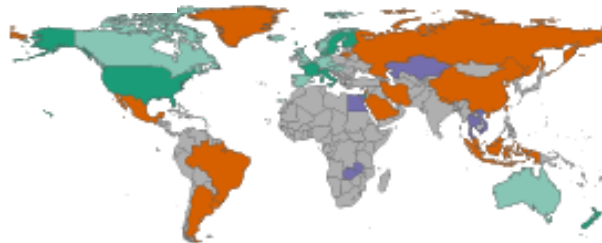
2000 to 2009



2010 to 2019



2020 to 2024



Previous Therapeutic Challenges in IBD Therapy

- Limited treatment options (limited clinical trials in pediatric IBD)
- No convenient method to monitor treatment success
- Psychosocial burden
- High rates of surgery in Crohn's disease
- Fibrosis and Fistula development in CD patients



Problems of the Past: Limited Therapeutic Options

- Reliance on (topical???) corticosteroids
- Lack of acceptance of rectal therapies
- Few maintenance therapies
- Steroid dependence and side effects common



20 years ago: Biologics were introduced in IBD therapy.....

LEADING ARTICLE

Drugs R&D 1999 Mar; 1 (3): 237-244
1174-5886/99/0003-0237/\$04.00/0

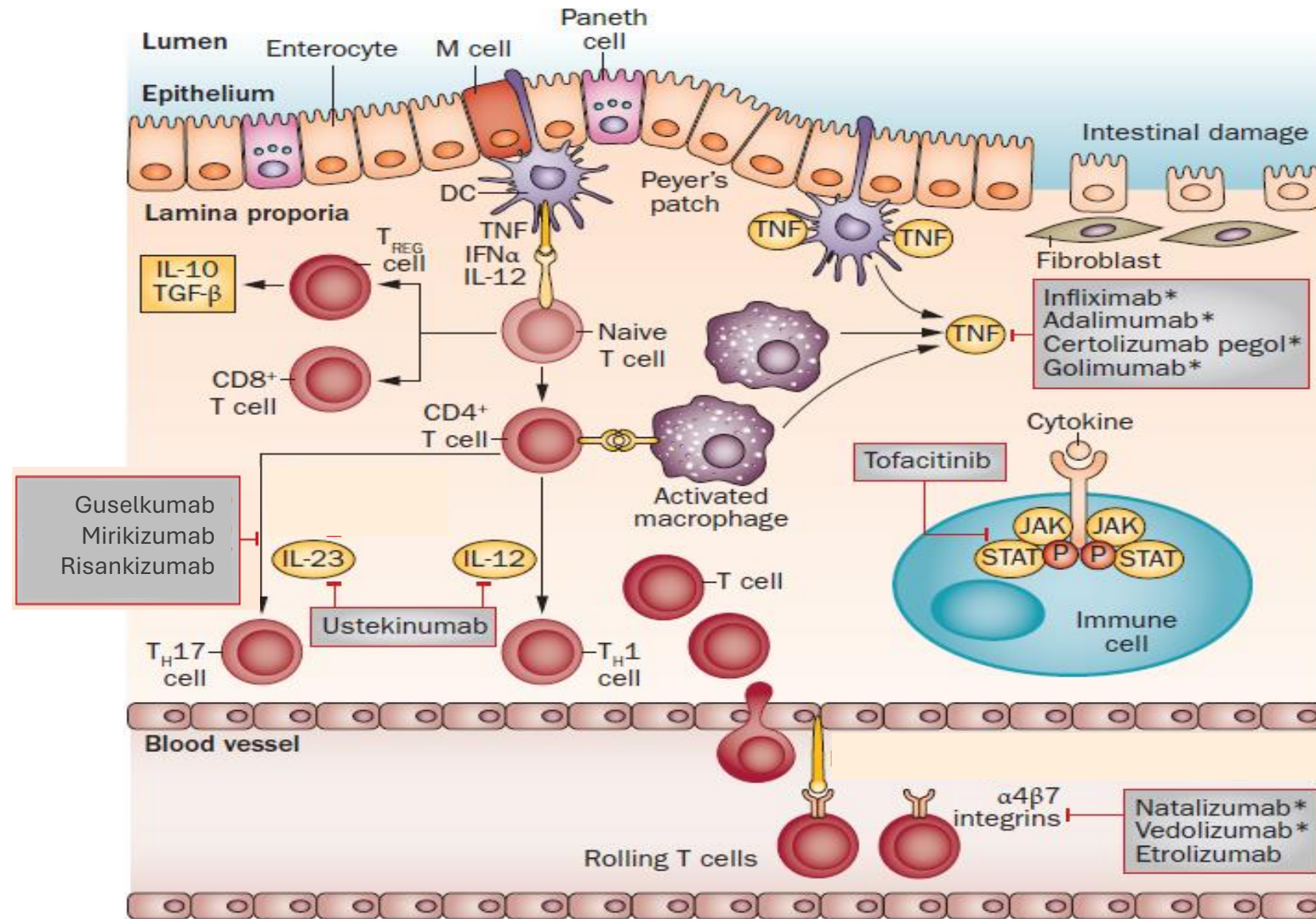
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Promising New Agents for the Treatment of Inflammatory Bowel Disorders

Kevin A. Lang^{1,2} and Mark A. Peppercorn^{3,4}

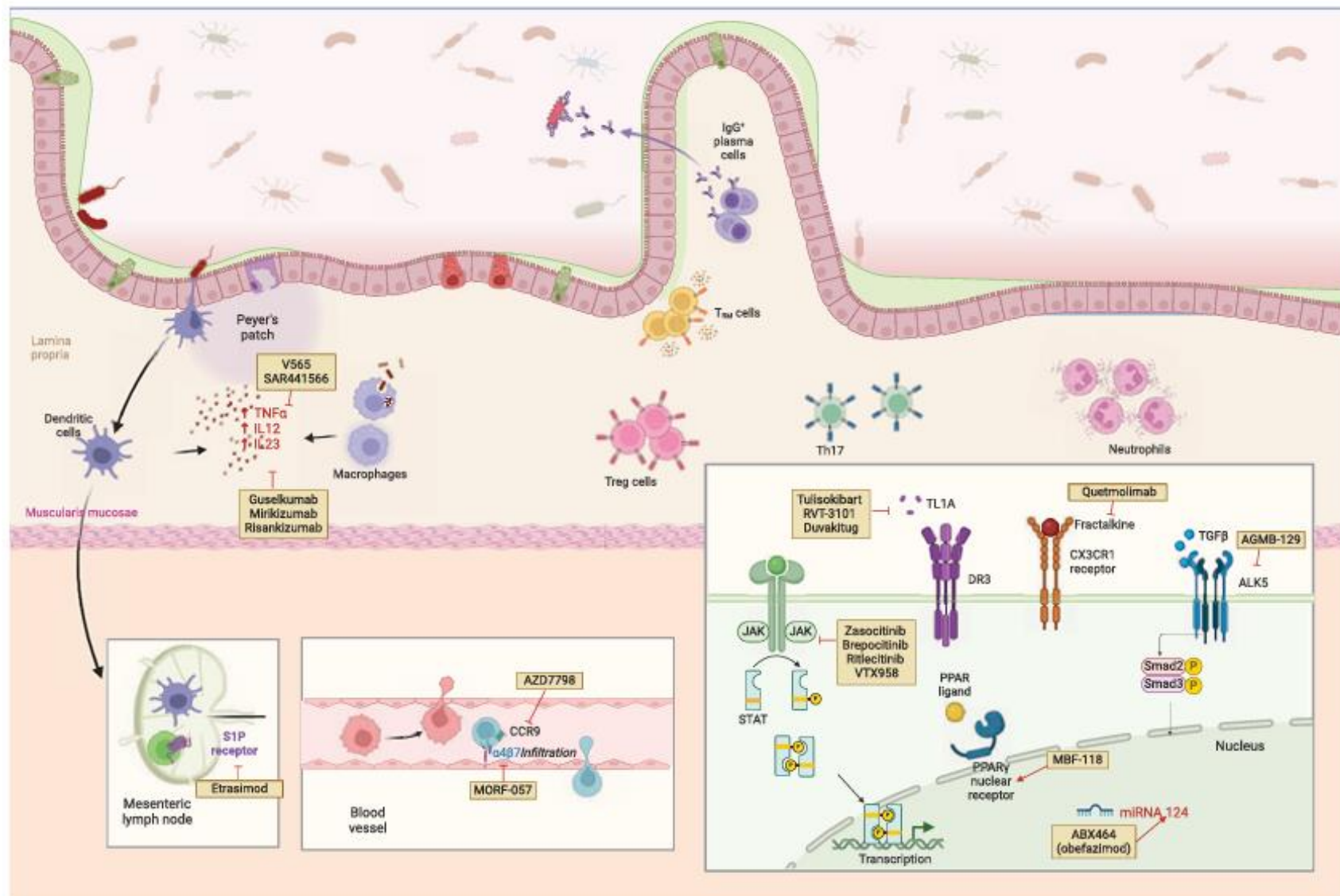
“A groundswell of therapeutic modalities is presently sweeping through the field of inflammatory bowel disease (IBD), revolutionising the treatment and management of these disorders. At the forefront of newer agents are biological therapies, also referred to as ‘biologics’. These include infliximab (cA2), CDP 571, rhIL-10, ICAM-1 antisense oligonucleotide (ISIS 2302) and oprelvekin (rhIL-11).”

Biologics and small molecules established in IBD therapy



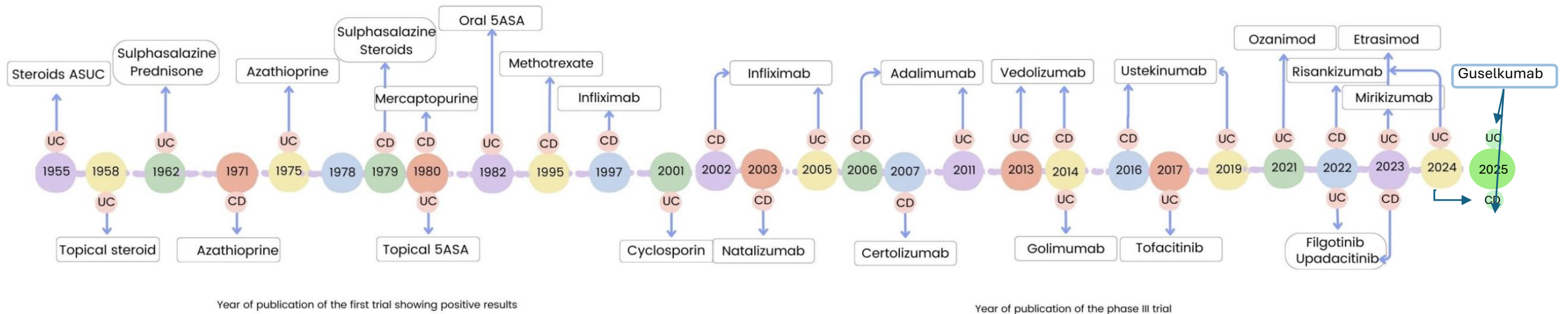
mod acc to Danese, S. et al. Nat. Rev. Gastroenterol. Hepatol. 12, 537–545 (2015)

Mechanisms of action of emerging therapies



New Challenge – New therapies and monitoring

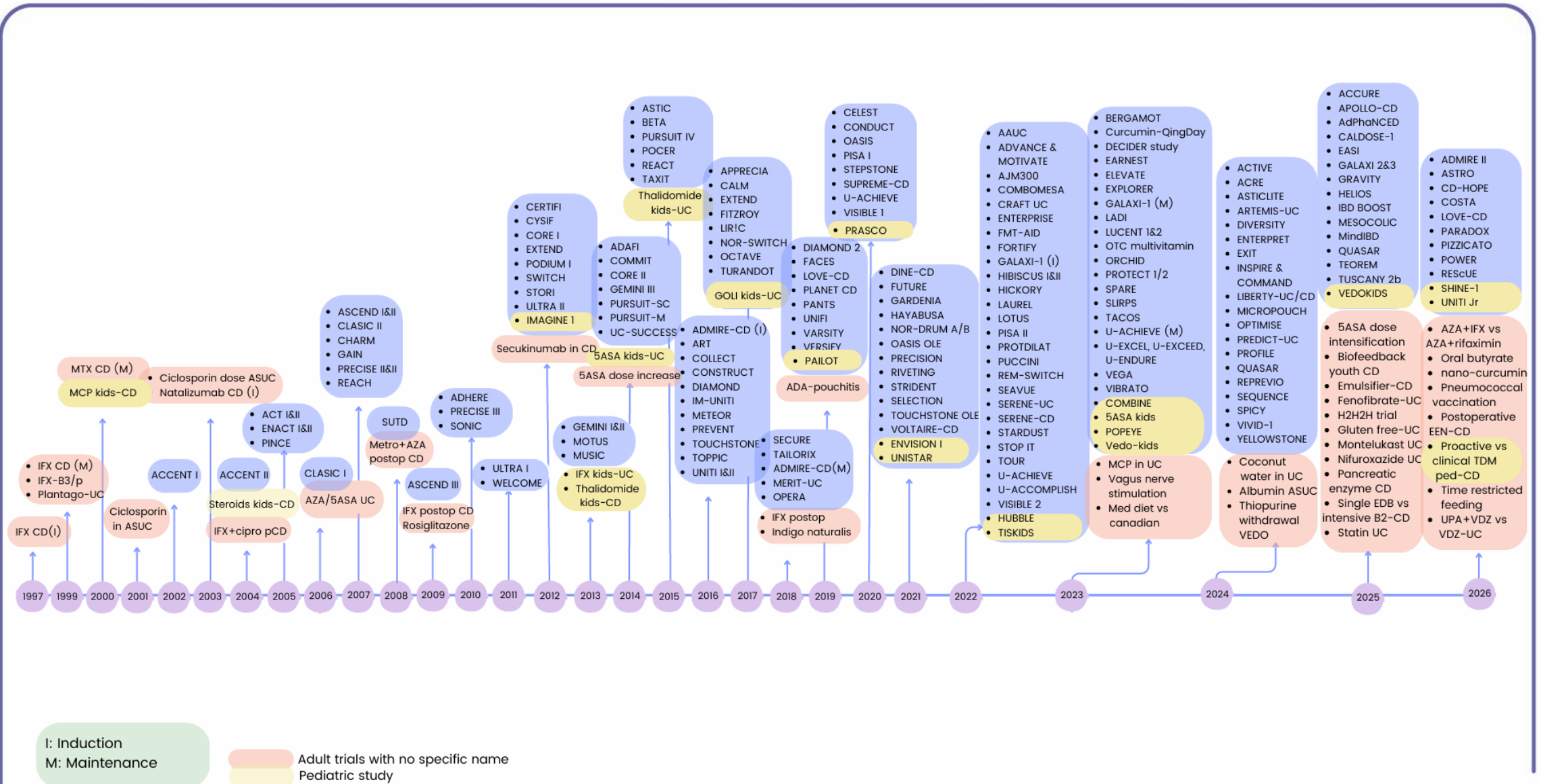
- **Problem:** Need for: Right drug, right time



Gros B. www.ibd-eii.com



Number of clinical trials in IBD since 1997



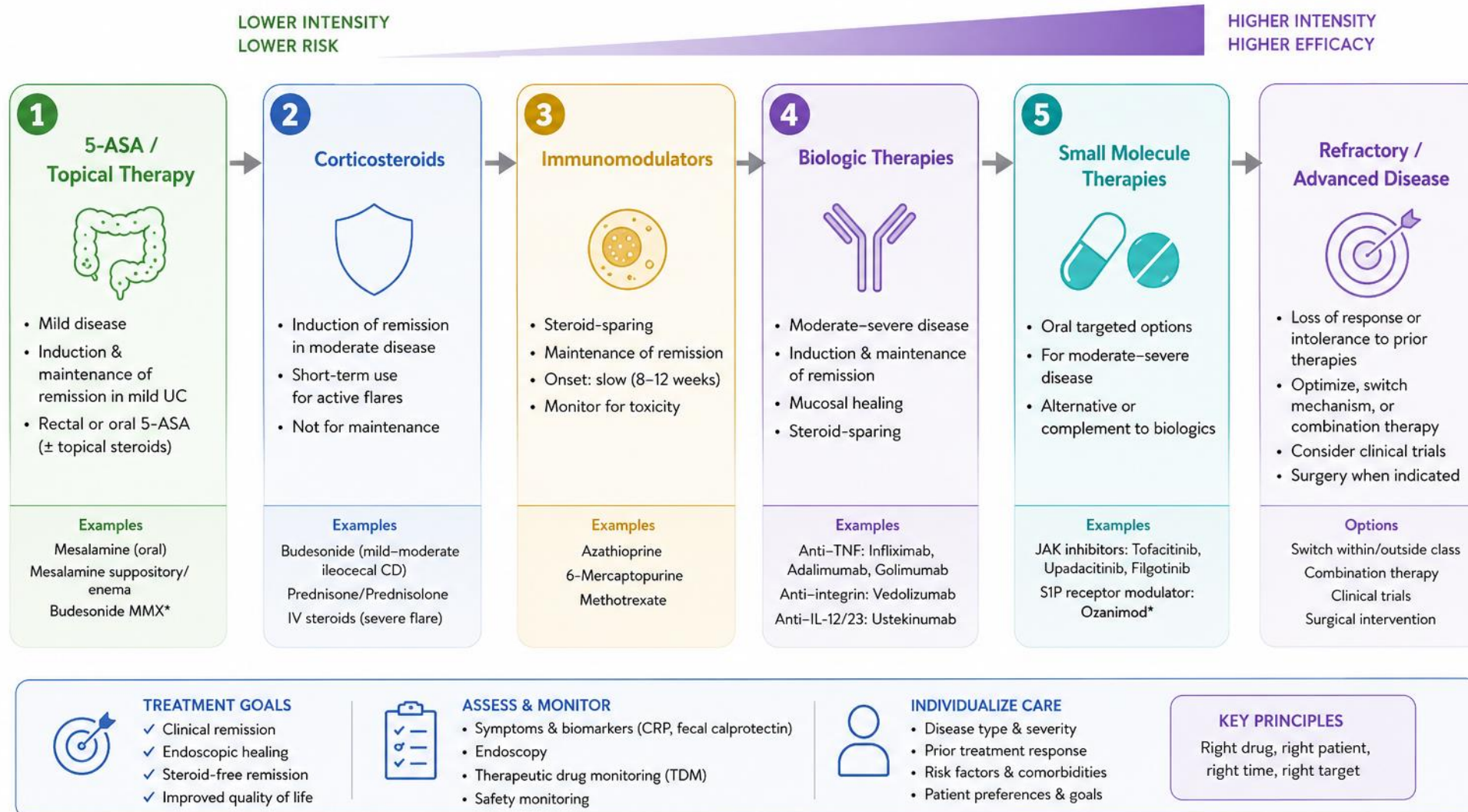
New Challenges

- Biologic therapies & monitoring
- How to choose the right therapy
- Therapeutic ceiling
- Mental health focus
- Integration of precision medicine
- Access & health equity



TREATMENT PIPELINE FOR IBD THERAPY

A step-up approach tailored to disease severity, patient factors, and treatment goals



UC: Ulcerative Colitis; CD: Crohn's Disease; 5-ASA: 5-Aminosalicylate; JAK: Janus Kinase; S1P: Sphingosine-1-Phosphate

*Not approved in all regions/indications. Follow local guidelines.

What could be treatment targets in IBD?

- **Short term**

- Clinical remission and minimising risk (side effects)
 - PRO2 and beyond!
 - Quality of Life (including fatigue, pain, productivity etc.)
 - Integrated decision making
- Normalisation of biomarkers values and mucosal (or histological) healing

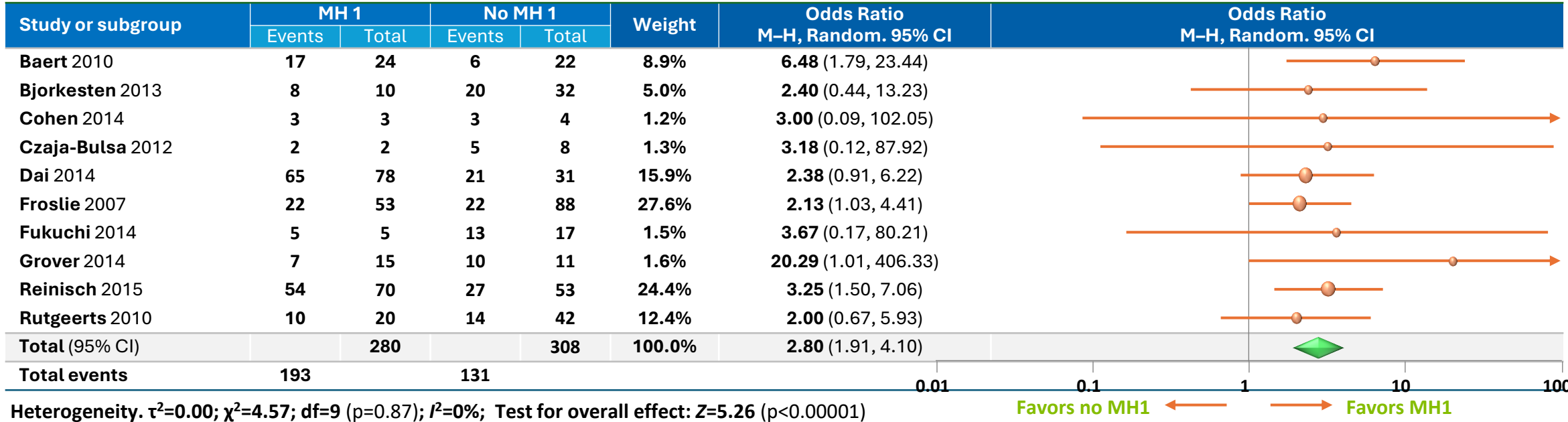
- **Long(er) term**

- Avoid disease progression (CD+UC)
- Avoid complications serious adverse events
 - +
 - For UC: Cancer and colectomy
 - For CD: (Repeated) surgery in patients with extensive small bowel disease

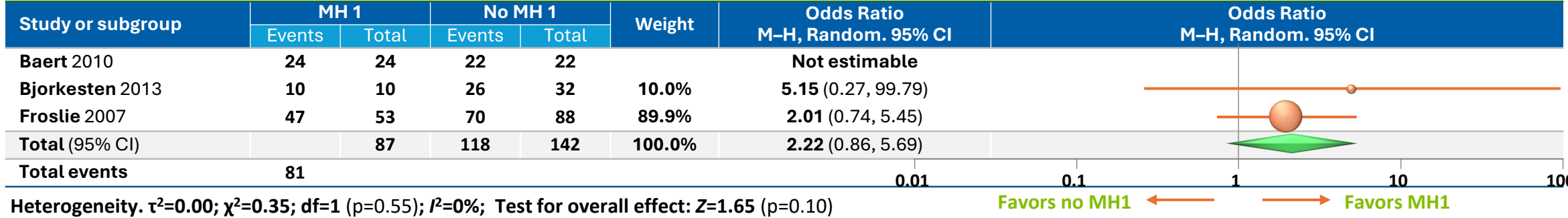


Impact of mucosal healing for long-term outcomes in CD: Meta-analysis

Association of MH at first endoscopic assessment (MH1) with long-term clinical remission (CR)

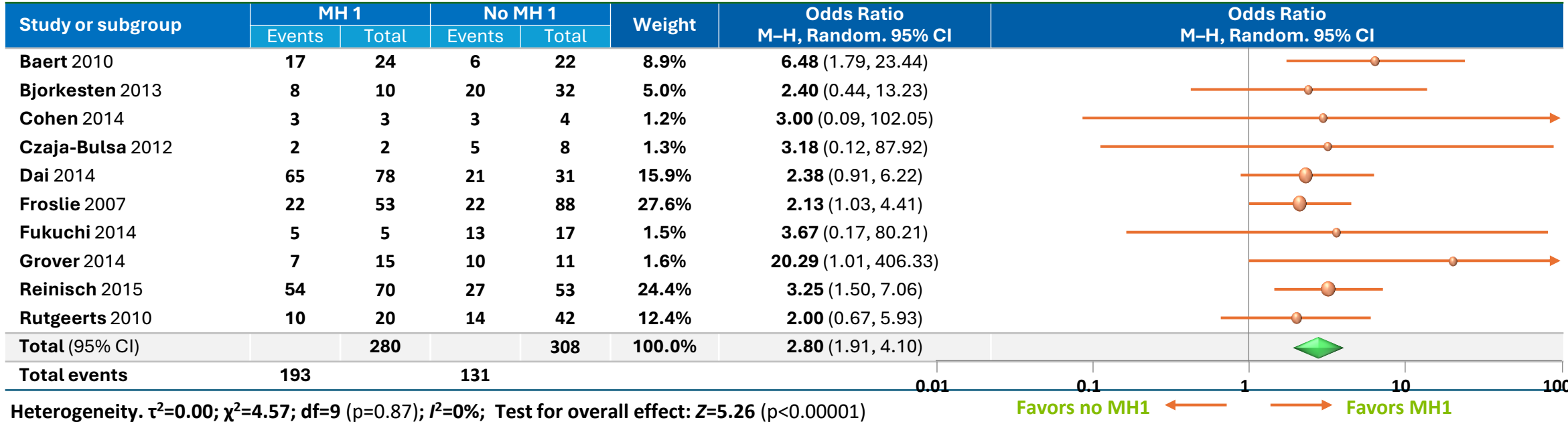


Association of MH1 with CD-related surgery-free rate

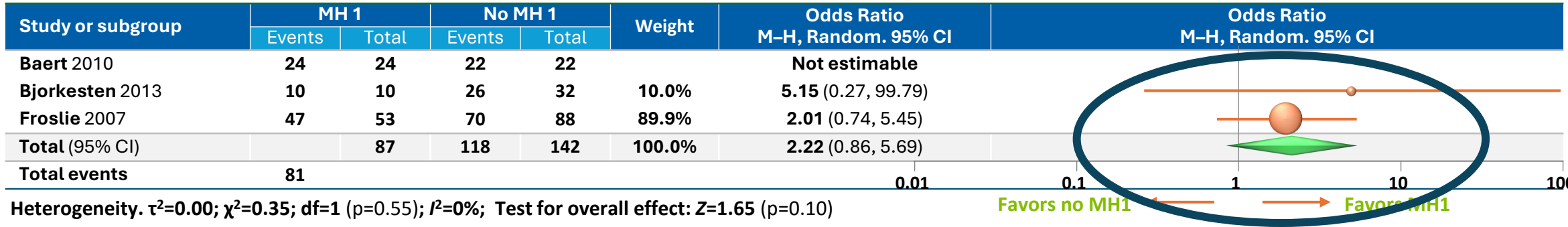


Impact of mucosal healing for long-term outcomes in CD: Meta-analysis

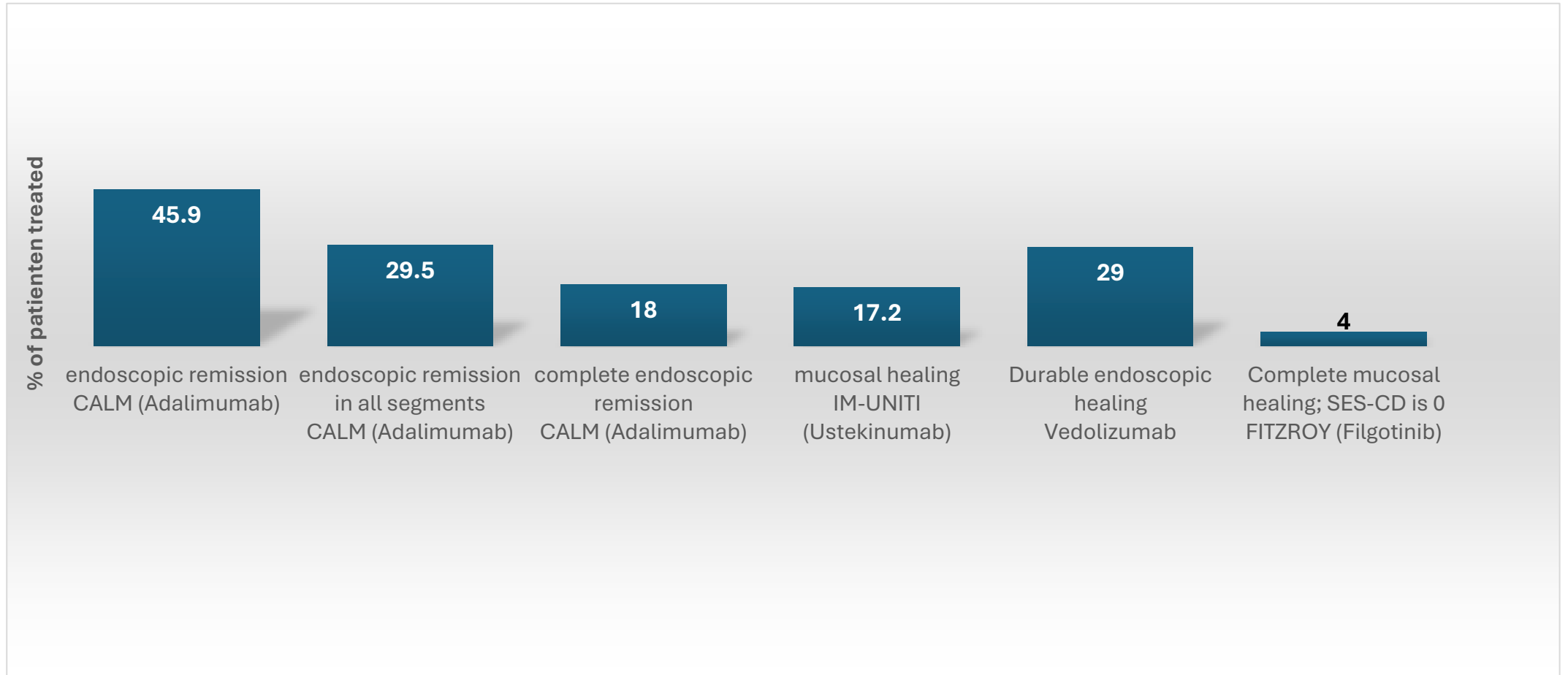
Association of MH at first endoscopic assessment (MH1) with long-term clinical remission (CR)



Association of MH1 with CD-related surgery-free rate

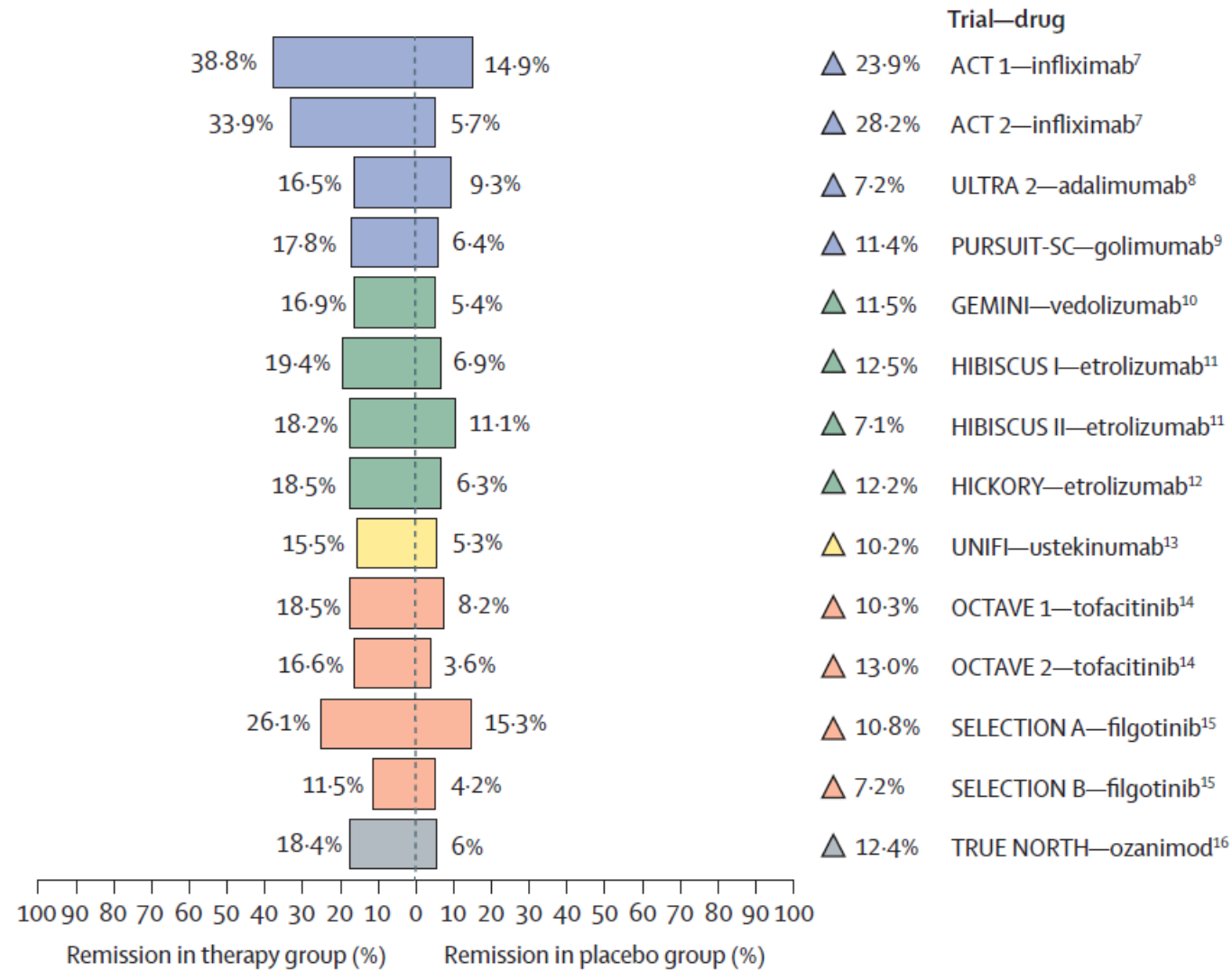


Mucosal healing rates in clinical trials in CD

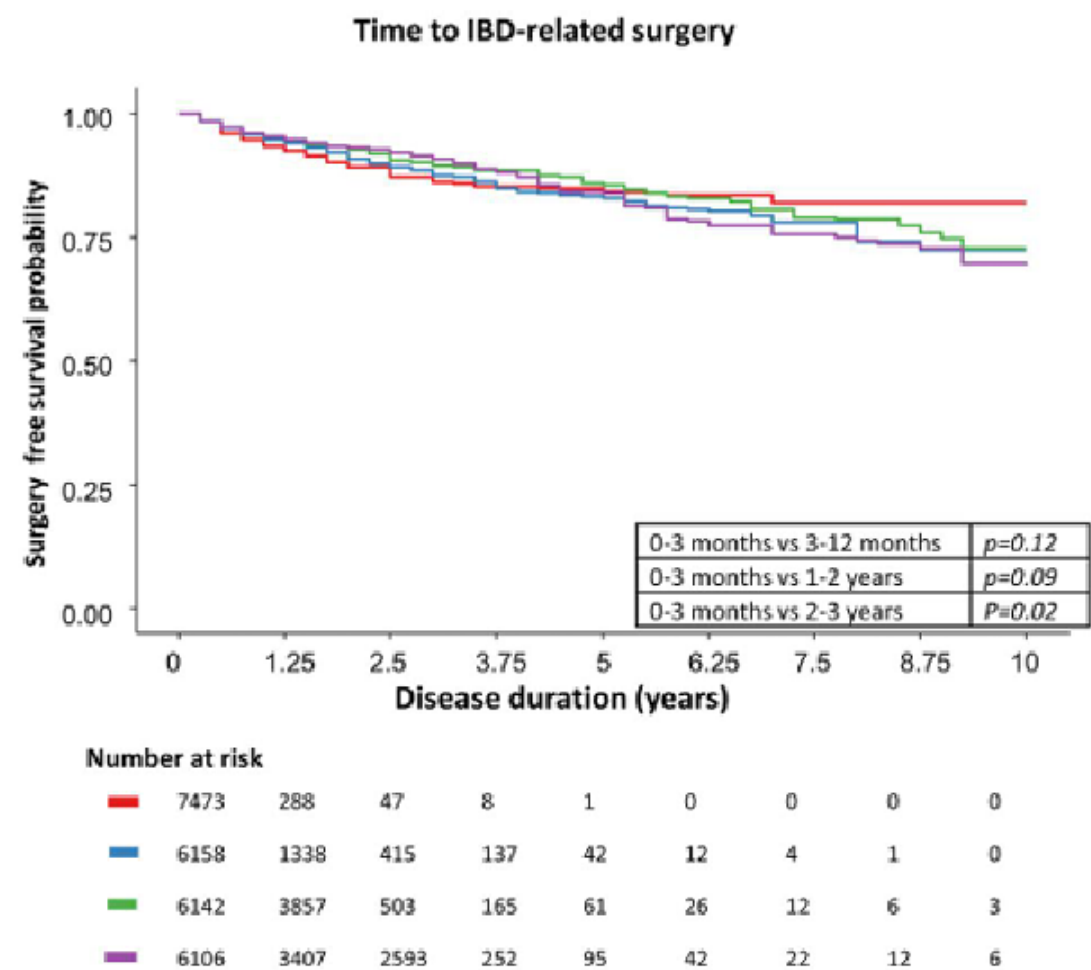


Colombel JF, et al. Gastroenterology 2017;152(Suppl 1):S155.
Colombel JF, et al. Gastroenterology 2017;152(Suppl 1):S155.
Colombel JF, et al. Gastroenterology 2017;152(Suppl 1):S155.
Rutgeerts P et al. UEGW 2016 #OP 104
Noman et al, J Crohns Colitis. 2017 Sep 1;11(9):1085-1089.
Vermeire S, et al. Lancet. 2017 Jan 21;389(10066):266-275.

Remission rates in induction trials for ulcerative colitis

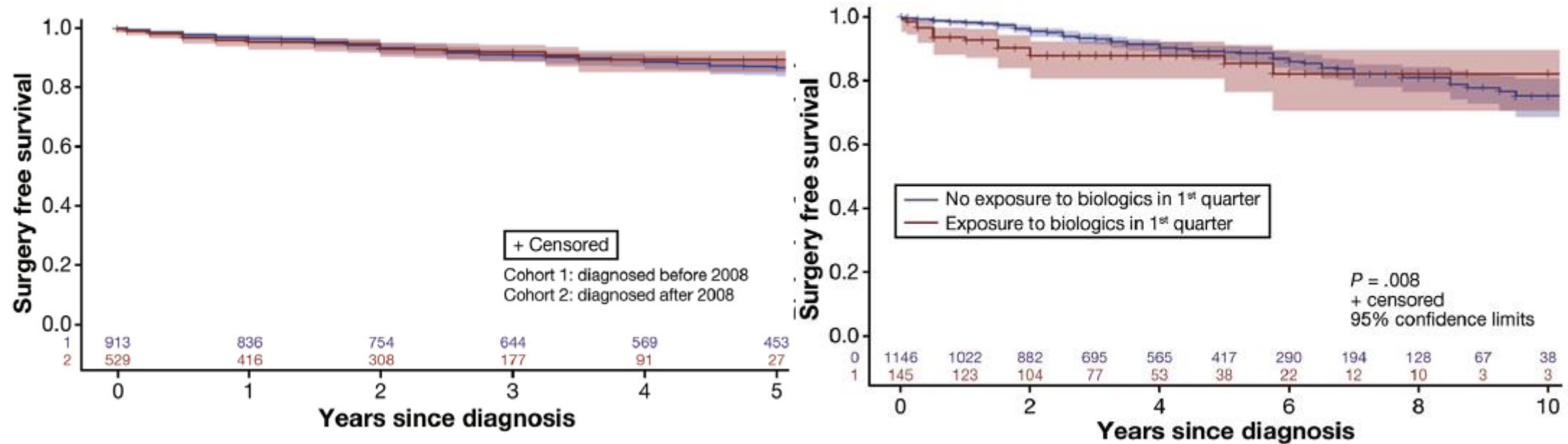


Early start of biologics is not associated with a significantly reduced risk of surgery in CD



Lujan R, Buchuk R, Focht G, Yogev D, Greenfeld S, Ben-Tov A, Weisband YL, Lederman N, Matz E, Ben Horin S, Dotan I, Nevo D, Turner D. Early Initiation of Biologics and Disease Outcomes in Adults and Children With Inflammatory Bowel Diseases: Results From the Epidemiology Group of the Nationwide Israeli Inflammatory Bowel Disease Research Nucleus Cohort. *Gastroenterology*. 2024 Feb 6:S0016-5085(24)00128-8

Biologics Delay Progression of Crohn's Disease, but Not Early Surgery, in Children



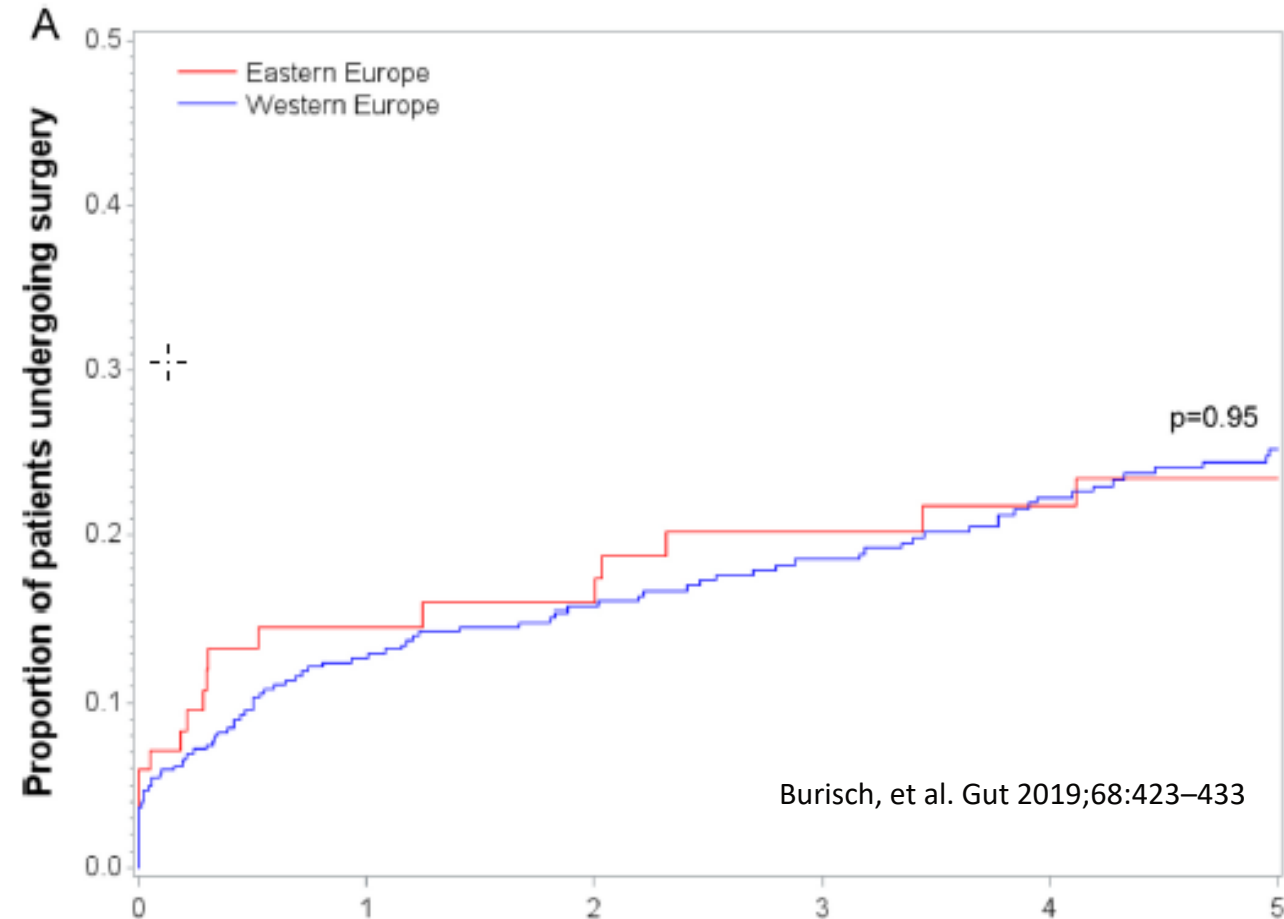
- Data from the Pediatric Inflammatory Bowel Disease Collaborative Research Group registry on 1442 children (age, <16 y) diagnosed with CD from January 2002 through December 2014.
- The 5-year risk of bowel surgery did not change from 2002 through 2014, and remained between 13% and 14%.

Natural disease course of Crohn's disease in a European population-based inception cohort (Epi-IBD)

Epi-IBD cohort: A prospective population-based inception cohort of unselected patients with IBD from 29 European centres

Despite geographic differences in treatment, the disease-course did not differ between Western and Eastern European patients.

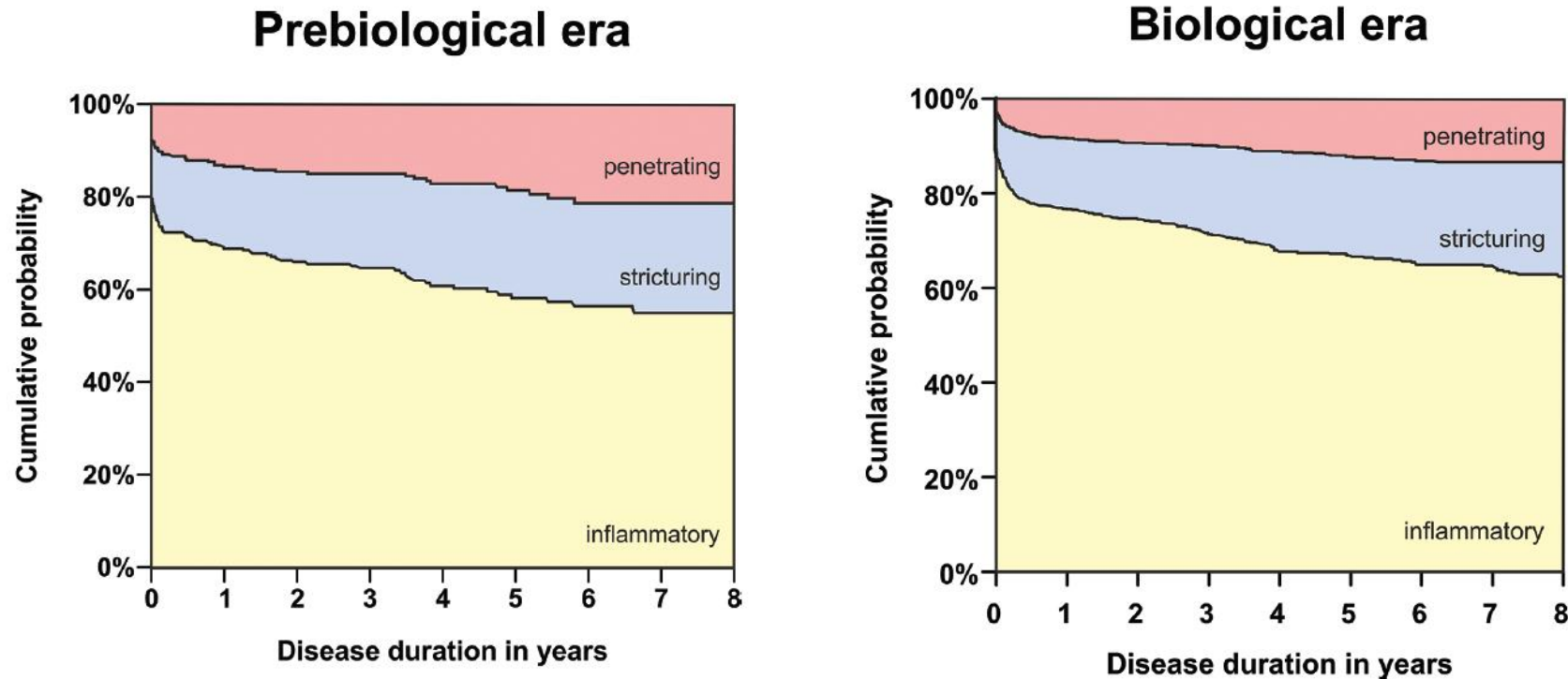
Five-year surgery, hospitalization and phenotype progression rates are similar to cohorts from 20 years ago.



Burisch, et al. Gut 2019;68:423–433



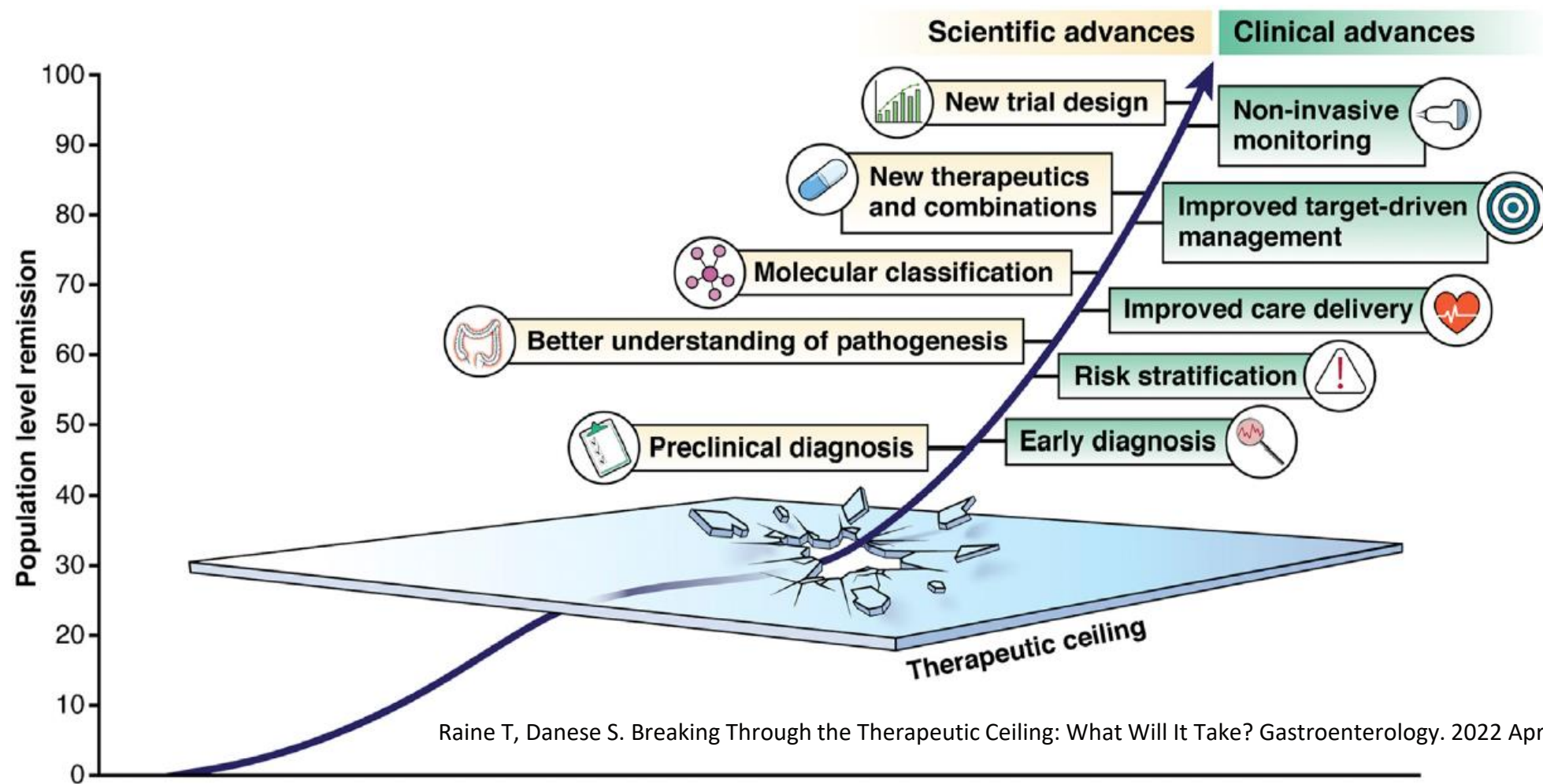
Does current medical therapy prevent intestinal damage?



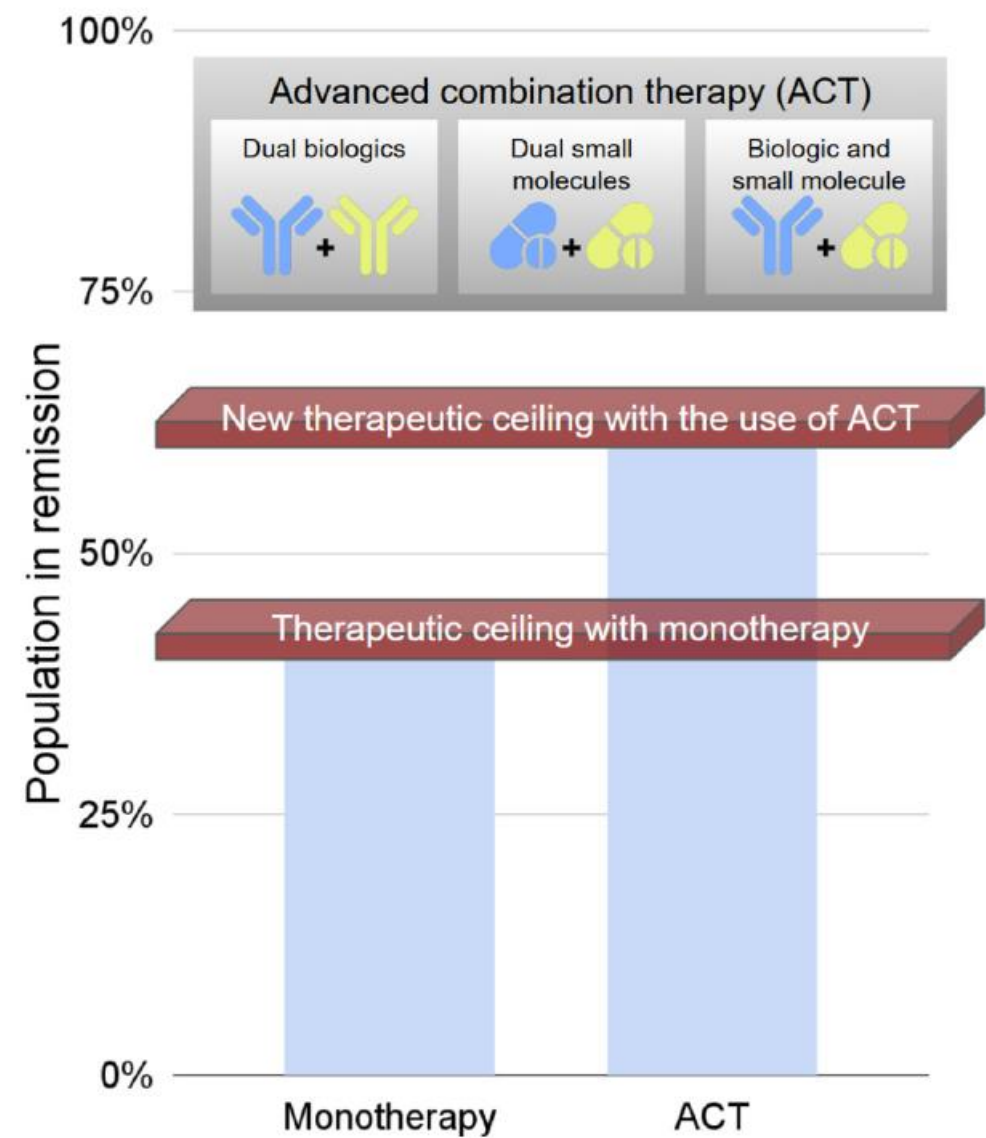
- Incident IBD cases South-Limburg Area; Population-based IBD cohort with >93% coverage
- «Pre-biological cohort»: 1991-1998
- «Biologic cohort»: 1999 – 2011 (Follow up until 2014)

➔ Similar risk to develop fibrosis in the pre- and biological era

Suggested solutions to break the “therapeutic ceiling”

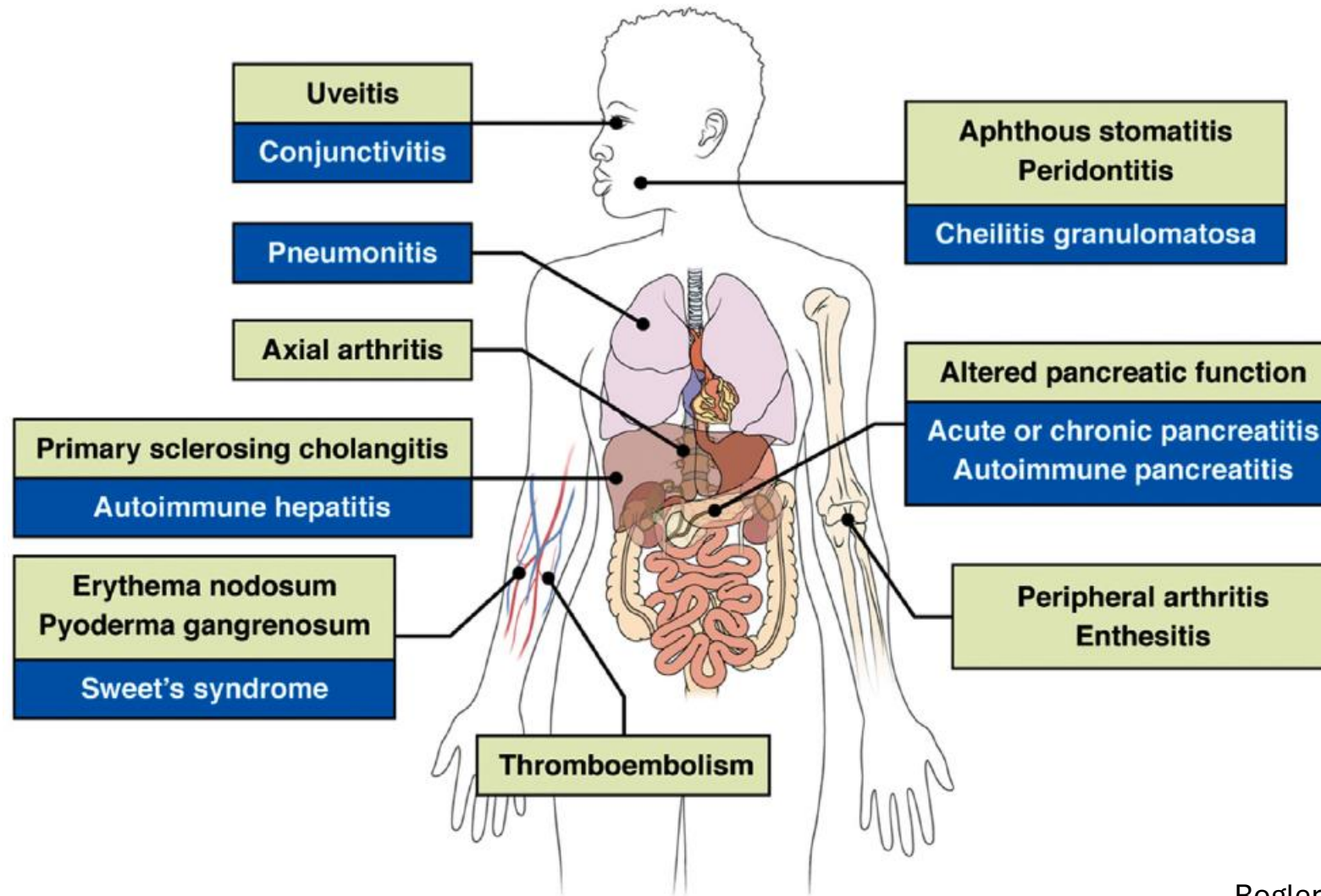


The Promise of Advanced Combination Treatment (ACT)?



Solitano V, Hanžel J, Estevinho MM, Sedano R, Massimino L, Ungaro F, Jairath V. Reaching the therapeutic ceiling in IBD: Can Advanced Combination Treatment (ACT) offer a solution? Best Pract Res Clin Gastroenterol. 2025 Aug;77:101981

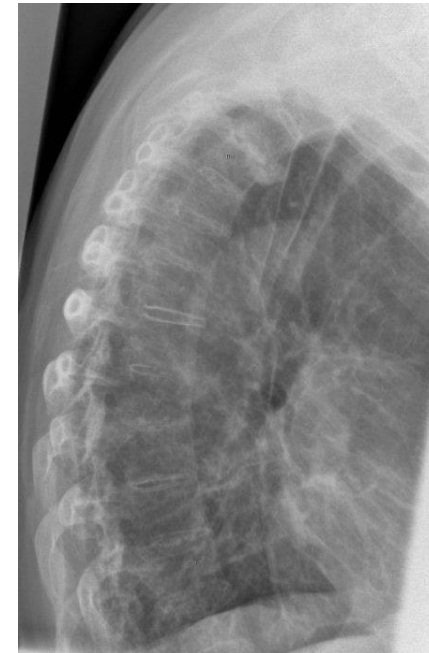
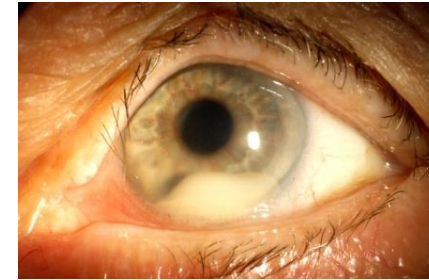
Extraintestinal manifestations



Rogler G, Singh A, Kavanaugh A, Rubin DT.
Extraintestinal Manifestations of Inflammatory Bowel Disease: Current Concepts,
Treatment, and Implications for Disease Management.
Gastroenterology. 2021 Oct;161(4):1118-1132

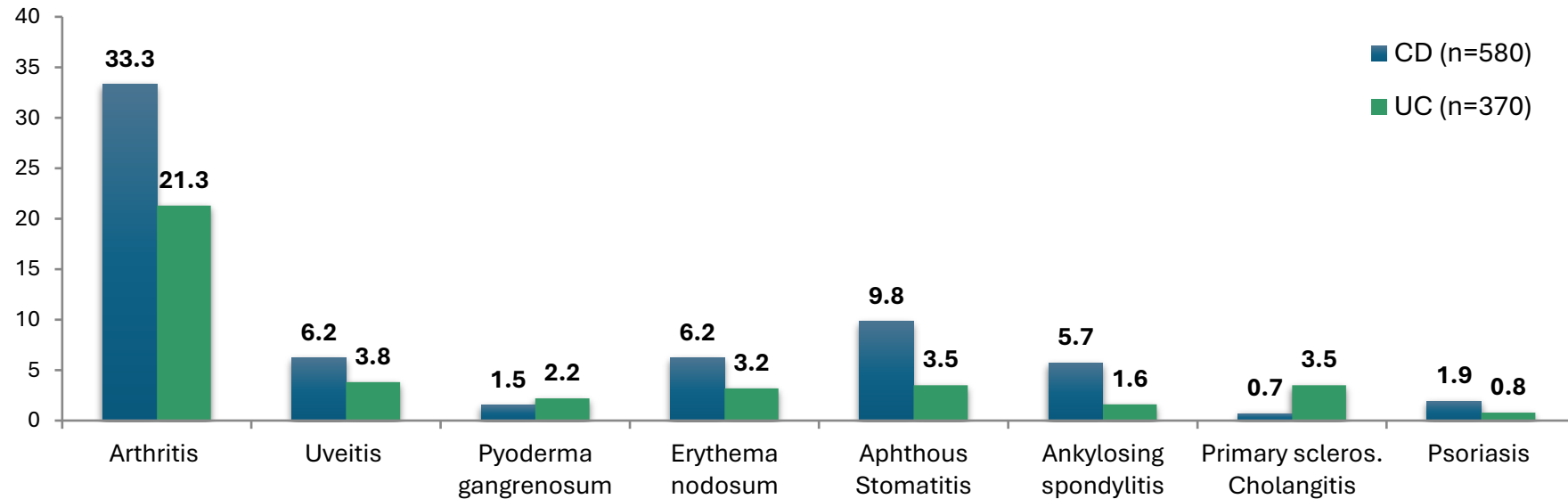
Extraintestinal Manifestations of Inflammatory Bowel Disease

Stephan R. Vavricka, MD,*[†] Alain Schoepfer, MD,[‡] Michael Scharl, MD,* Peter L. Lakatos, MD,[§]
Alexander Navarini, MD,^{||} and Gerhard Rogler, MD*



Frequency and Risk Factors for Extraintestinal Manifestations in the Swiss Inflammatory Bowel Disease Cohort

Stephan R. Vavricka, MD^{1,6}, Lionel Brun^{1,6}, Pierluigi Ballabeni², Valérie Pittet², Bettina Mareike Prinz Vavricka, MD³, Jonas Zeitz, MD¹, Gerhard Rogler, MD¹, Alain M. Schoepfer, MD^{4,5} and the Swiss IBD Cohort Study Group⁷



- CD patients with active disease were found to suffer significantly more frequently than patients with inactive disease from peripheral arthritis (45.1 vs. 31.3 % , $P = 0.016$), uveitis (12.2 vs. 5.2 % , $P = 0.024$), and aphthous stomatitis (17.1 vs. 8.6 % , $P = 0.026$).
- No difference in EIM frequency with regard to disease activity could be detected in UC patients.

Emerging treatment options for EIMs in IBD

	Anti-TNF				Anti-integrins		JAK	IL-12/23
	IFX	ADA	CZP	Goli	VDZ	Natalizumab	Tofa	Ustekinumab
Arthritis								
SpA								
EN								
PG								
Uveitis								



Should be considered.



May be considered.

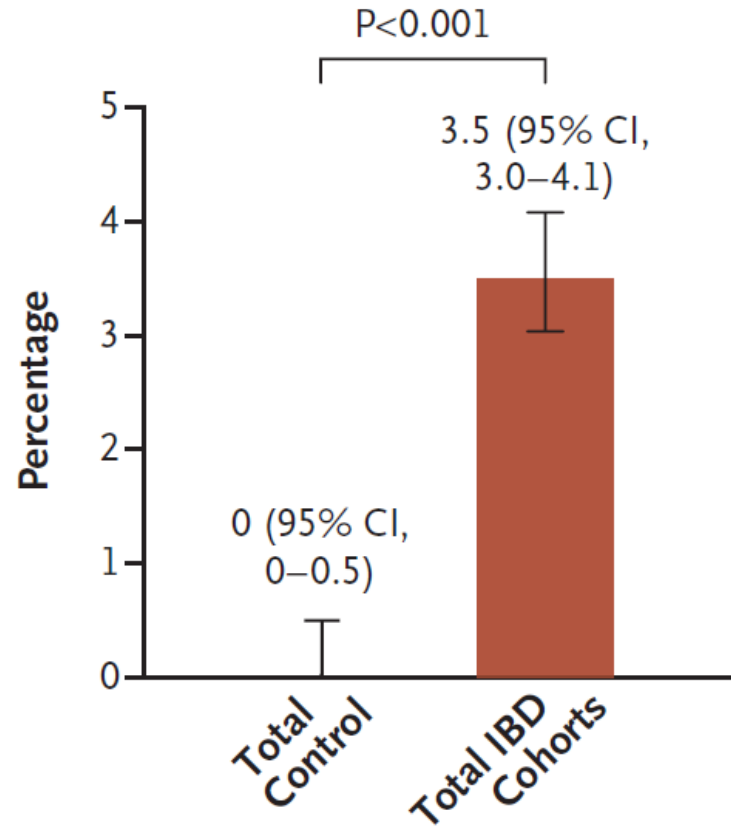


Cannot be recommended.

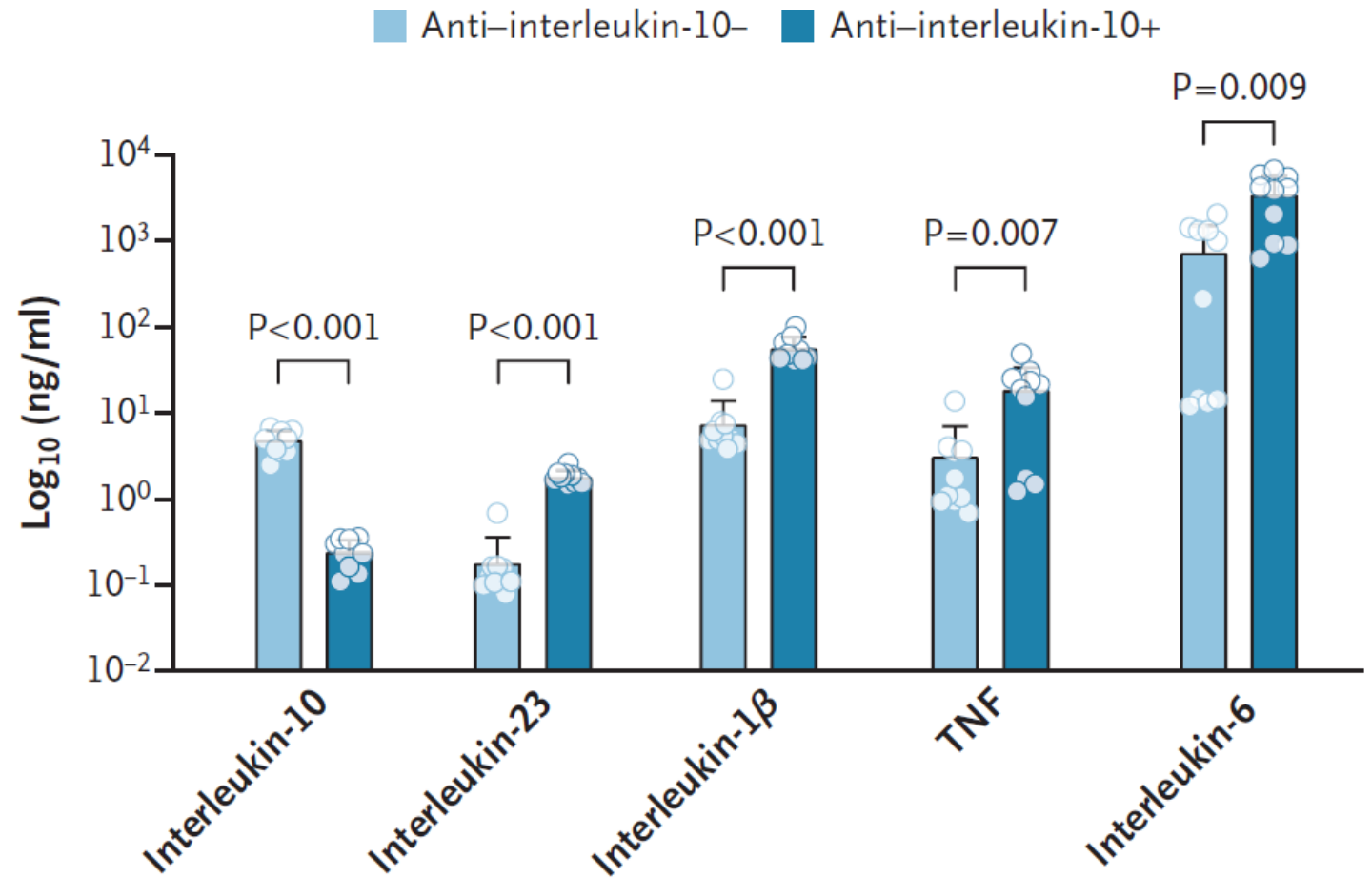
ADA, adalimumab; CZP, certolizumab; EN, erythema nodosum; Goli, golimumab; IFX, infliximab; IL, interleukin; JAK, Janus kinase; PG, pyoderma gangrenosum; SpA, axial spondyloarthritis; TNF, tumour necrosis factor; Tofa, tofacitinib; VDZ, vedolizumab.

Definition of Patient Subgroups

B Interleukin-10+ as Measured by Neutralization in Interleukin-10 Reporter Assay and ELISA

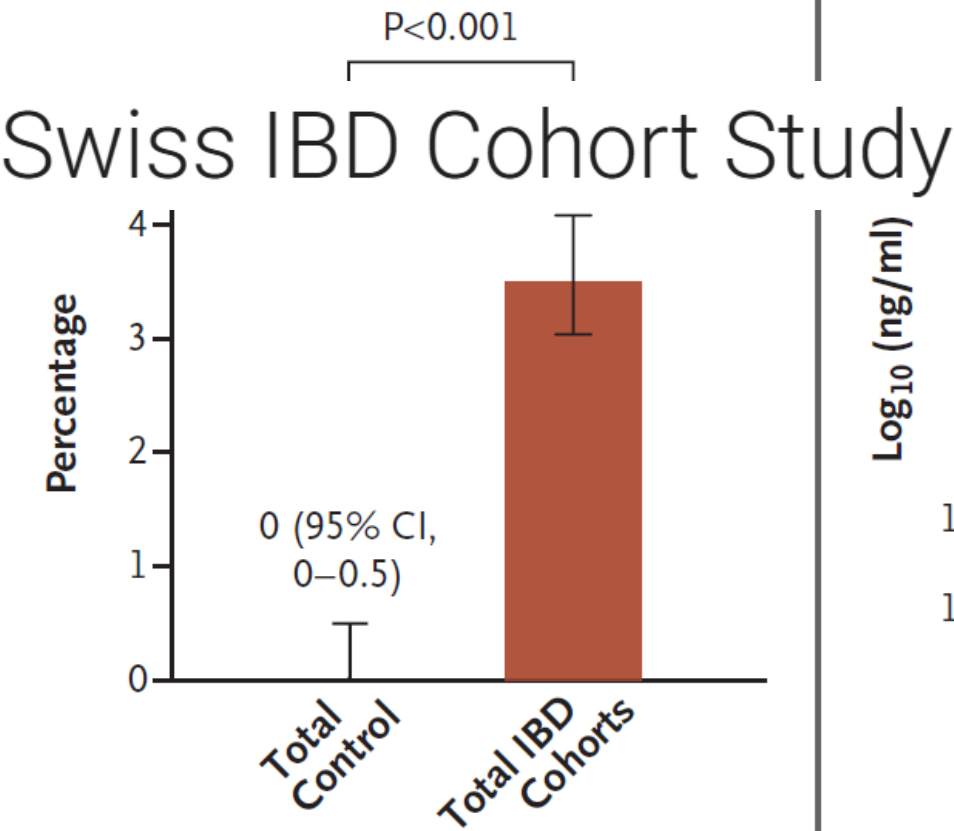


C Cytokine Concentrations as Measured by PBMC Cytokine-Release Assay

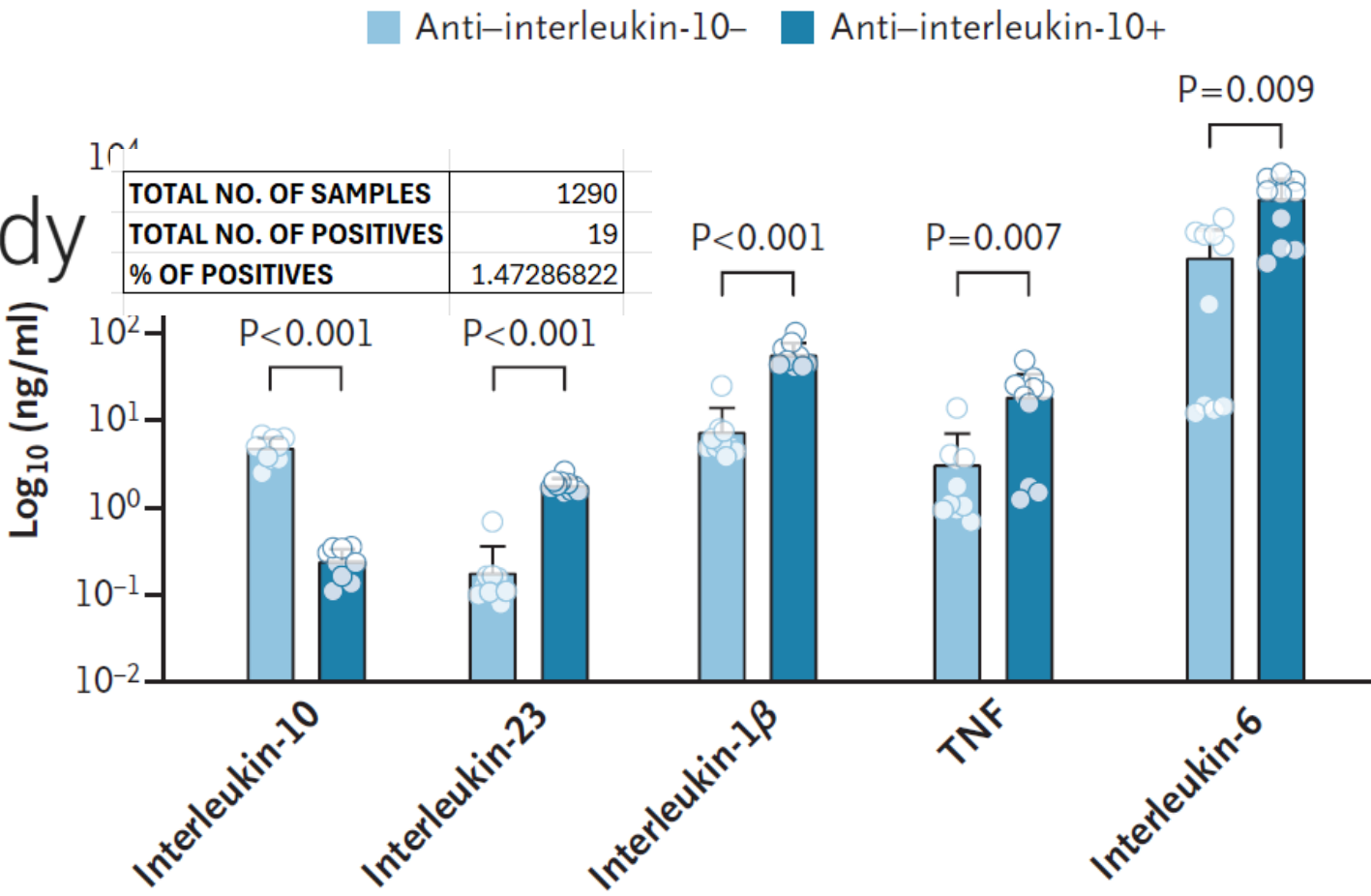


Definition of Patient Subgroups

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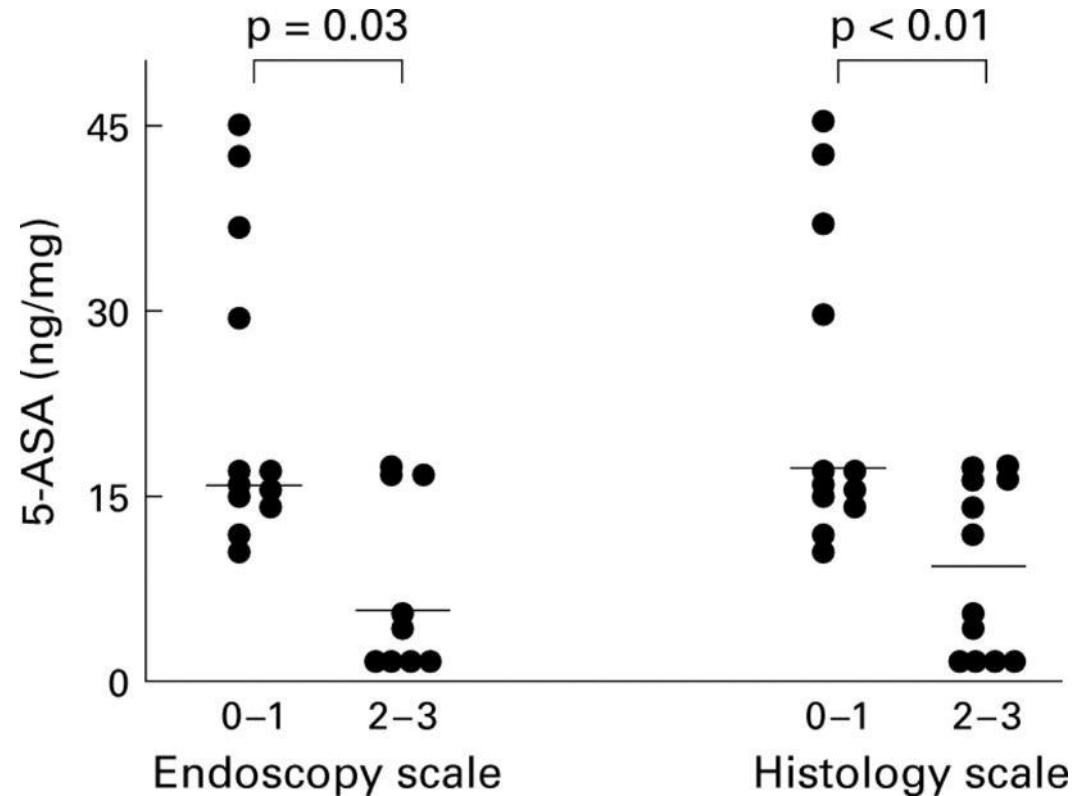


C Cytokine Concentrations as Measured by PBMC Cytokine-Release Assay

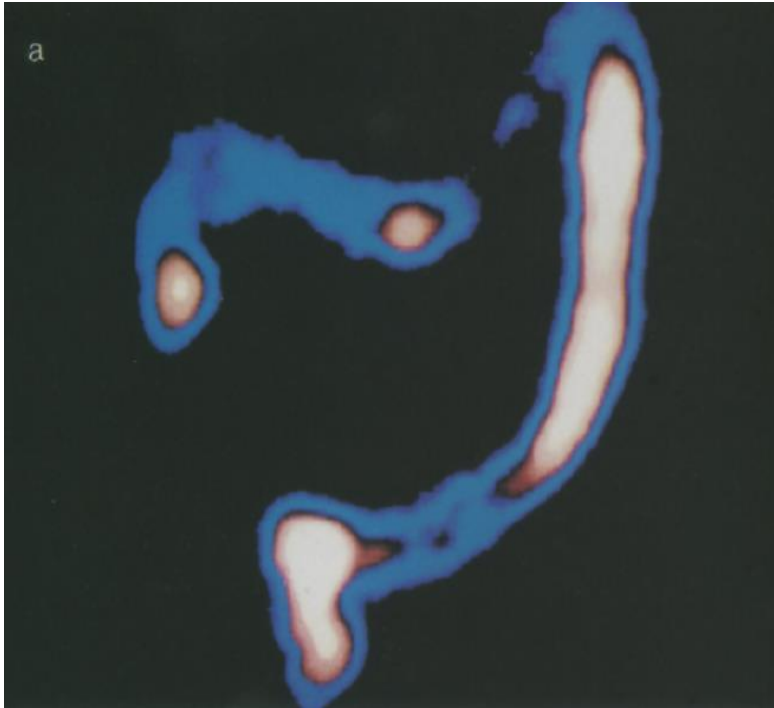


The impact of administration route: Mucosal concentrations are crucial

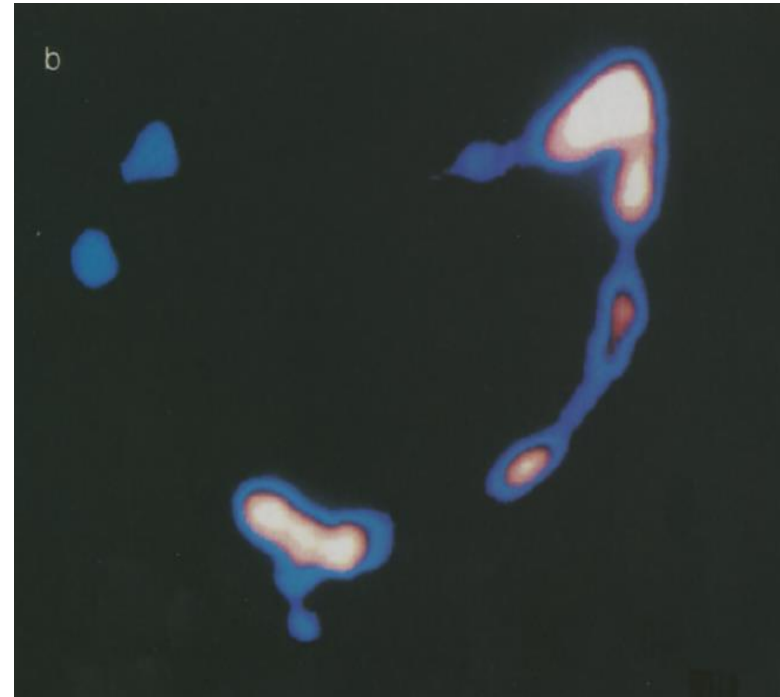
Distribution of 5-aminosalicylic acid (5-ASA) mucosal concentrations according to endoscopic and histological grading of colitis.



Distribution of Foams and Enemas



Foam



Enema

60 min after application

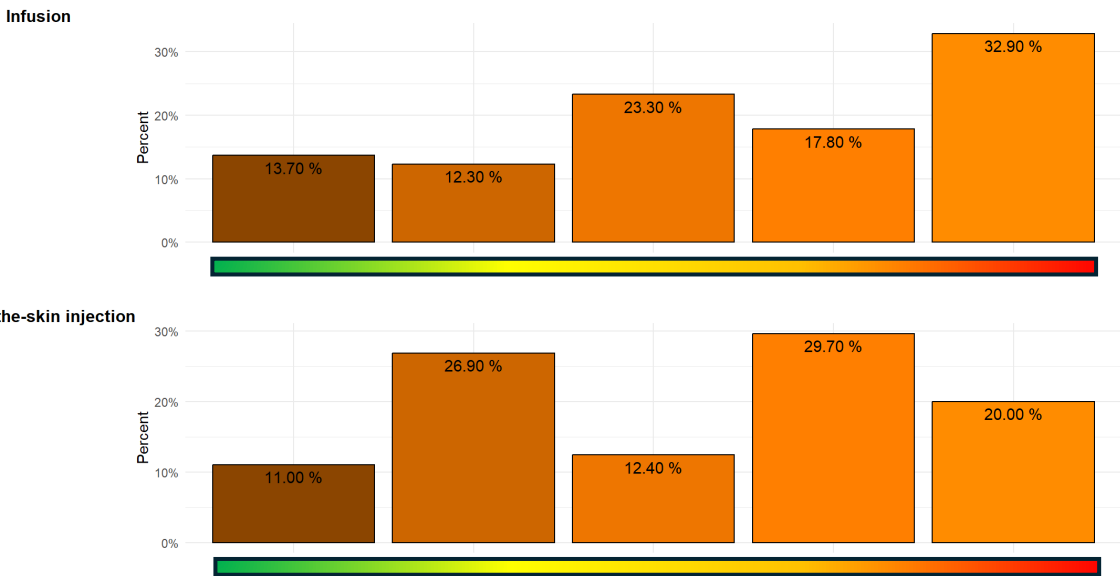
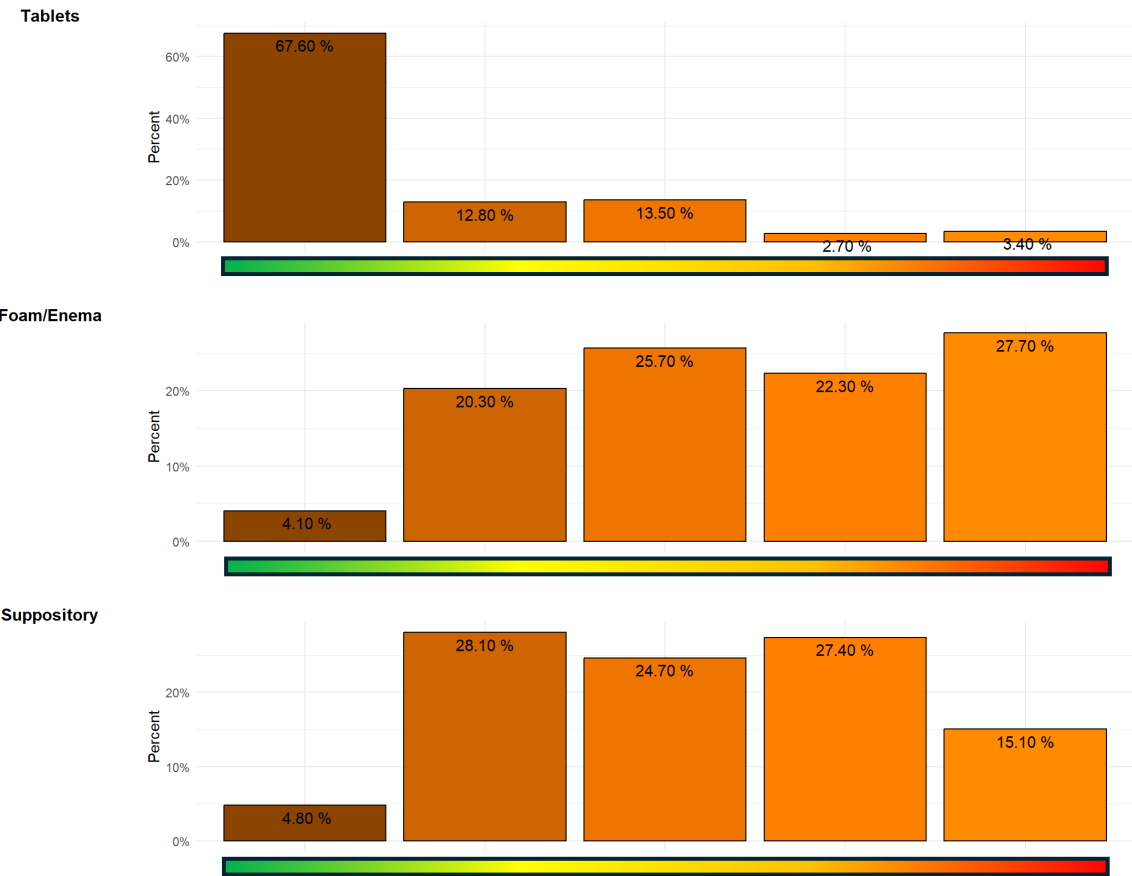
Patient survey: Convenience of topical therapy

- 35% of patients discontinued topical treatment prematurely
- Reasons for discontinuation:
 - Unpleasant application (51.3%)
 - Preference for tablets (51.3%)
 - Ineffectiveness (41.1%)

Kreienbühl A, Rogler R, Biedermann L, Maillard M, Pittet V on behalf of the Swiss IBDnet (SIBDCS) investigators.
Gastroenterologists' and patients' perspective on the use of rectal 5-ASA formulations in ulcerative colitis patients.
Unpublished data



Patient preferences



Kreienbühl A, Rogler R, Biedermann L, Maillard M, Pittet V on behalf of the Swiss IBDnet (SIBDCS) investigators. Gastroenterologists' and patients' perspective on the use of rectal 5-ASA formulations in ulcerative colitis patients.

Unpublished data





- messages: Current Therapeutic Challenges in IBD Therapy

- The therapeutic management of IBD remains challenging despite major advances with biologics and small molecules.
- The “therapeutic ceiling” makes it difficult for many patients to find an effective drug
- Long-term disease control is still challenging
- Personalized medicine (finding the right drug for the right patient) is difficult as no predictive markers exist
- EIMs may have significant influence of the Quality of life
- First patient subgroups have recently been identified (IL-10 AB +) → specific therapies
- Fibrosis and fistula formation cannot be targeted
- Topical (rectal) therapy would be preferable (higher drug concentrations, less systemic effects) but is less tolerated by the patients



Thank you for your attention



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