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24-25 NOVEMBRE 2023



HOTEL EXCELSIOR SAN MARCO Piazza della Repubblica, 6

IBD e gravidanza (quale biologico?)

Dr.ssa Valentina Casini UOC Gastroenterologia ASST Bergamo EST

DISCLOSURES

SPA Società Prodotti Antibiotici

Galapagos

Pfizer











I care.



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"I will not be able to have children"

"IBD have a negative impact on my

pregnancy"

"I have to stop ALL IBD medications"

"My children will have an IBD as well"





ECCO GUIDELINES ON SEXUALITY, FERTILITY, PREGNANCY AND LACTATION



J. Torres et al JCC 2023 17, 1 – 27

BEFORE PREGNANCY

- Discuss disease heritability
- Smoking, alcohol and recreational drug cessation
- Ensure cervical cancer screening and vaccinations are updated
- Screen for anemia and vitamin deficiencies
- Folic acid prescription
- Review safety of drugs during pregnancy: stop methotrexate, Jak inhibitors, and ozanimod before conception, and consider alternative therapy to ensure good disease control
- Assess disease activity, optimize treatment to ensure disease remission
- Establish an individualized plan with the patient for disease monitoring and management during pregnancy
- Discuss risk/benefit of drug maintenance during pregnancy and lactation



"The exams for IBD monitoring can cause problems for the baby" "Colonoscopy is forbidden" "Now the priority is the child and not the activity of my illness" "I will have to give birth with a caesarean" ECCO GUIDELINES ON SEXUALITY, FERTILITY, PREGNANCY AND LACTATION



J. Torres et al JCC 2023 17, 1 – 27

DURING PREGNANCY

- Discuss risk/benefit of drug maintenance during pregnancy
- Establish a plan for delivery and mode of delivery
- Monitor with faecal calprotectin and intestinal ultrasound if available
- Monitor for adequate weight gain during pregnancy
- Discuss risk/benefit of drug maintenance during lactation

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- Discuss safety of vaccination in the children
- Discuss management plan with family doctor and/or obstetrician

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"I can't breastfeed"

"what about vaccines?"

"I feel alone with my child

and my illness"

ECCO GUIDELINES ON SEXUALITY, FERTILITY, PREGNANCY AND LACTATION



J. Torres et al JCC 2023 17, 1 – 27

AFTER DELIVERY

- Promptly restart treatment in women that stopped therapy during pregnancy
- Discuss safety of drugs during lactation

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- Postpone live vaccines during the first 6–12 months of life in children exposed to biologics in utero, or until levels in children are undetectable
- Screen for mental health problems in the postpartum period





✓ CONTRACEPTION

✓ FERTILITY

✓ IMPACT OF PATERNAL AND MATERNAL IBD ON THE RISK OF IBD IN THE OFFSPRING

✓ PRECONCEPTION COUNSELLING

✓ VOLOUNTARY CHILLESSNESS IN IBD

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Preconception Care Reduces Relapse of Inflammatory Bowel Disease During Pregnancy



CGH 2016

Variable	PCC (n = 155)	No PCC (n = 162)	Р	Crude OR (95% Cl)	Adjusted OR (95% Cl)
Medication change necessary before pregnancy, n (%)					
No	142 (91.6)	161 (99.4)	.0006	7.54 (1.67-33.98)	7.12 (1.56–32.51) ^b
Yes	13 (8.4)	1 ^a (0.6)			(
dequate planning of conception, n (%)		(000)			
No	16 (10.3)	-	-	-	-
Yes	95 (61.3)	-			
Correct adherence to IBD medication during pregnancy, n (%)					
No	4 (2.6)	22 (13.6)	.002	5.78 (1.94-17.18)	5.69 (1.88–17.27) ^c
Yes	151 (97.4)	140 (86.4)		, ,	, ,
dequate folic acid intake, n (%)	. ,				
No	14 (9.0)	61 (37.7)	.0001	5.71 (3.01-10.86)	5.26 (2.70–10.26) ^b
Yes	118 (76.1)	90 (55.6)			
Quit smoking during pregnancy, n (%)					
No	7 (29.2)	17 (70.8)	.009	5.90 (1.70-20.48)	4.63 (1.22–17.55) ^b
Yes	17 (70.8)	7 (29.2)			
Alcohol intake during pregnancy, n (%)					
No	125 (80.6)	151 (93.2)	1.00	0.81 (0.22-2.92)	0.74 (0.20–2.71) ^b
Yes	4 (2.6)	6 (3.7)			

PRECONCEPTION CARE REDUCES

- ✓ IBD relapse by promoting adherence to medication and smoking cessation
- ✓ risk for babies of low birth weight



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Decreased fertility rates in 9639 women diagnosed with IBD: a United Kingdom population-based cohort study

9639 women with IBD aged 15–44 years in 1990–2010 from a UK primary care database

BEFORE AND AFTER IBD DIAGNOSIS 120 140 (b) (b) Non-IBD Age-specific fertility rate (per 1000 person-years) Before IBD diagnosis Non-IBD person-years) After IBD diagnosis 120 100 Before surgery for IBD 100 80 Age-specific fertility rates (per 1000 After surgery for IBD 80 60 60 40 40 20 20 0 15 - 1920-24 25-29 30-34 35-39 40-44 Overall (All ages) 20-24 25-29 30-34 35-39 15 - 1940-44 Overall Age in years (All ages)

BEFORE AND AFTER IBD SURGERY

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Ban APT, 2015

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Women with IBD have marginally lower fertility rates. These rates decreased following flares and surgical interventions.

"Active disease is associated with decreased fertility in women with IBD"



Disease management

- 3-month steroid-free remission prior to conception
- Confirm remission with endoscopy or other objective markers

PRECONCEPTION

in gastroenterologia

IBD and PREGNANCY (IN DREAMLAND ?)

Medication management

- Stop methotrexate ≥ 3 months prior to conception
- Continue mesalamine
- Sulfasalazine requires 2 mg folic acid daily
- Taper off corticosteriods
- Continue azathioprine monotherapy
- Continue biologic therapy
 - Measure serum drug levels
 - Consider risk/benefit of stopping concomitant azathioprine
- Tofacitinib: avoid or use with caution

Healthcare maintenance

- Up-to-date Papanicolaou smear
- Vaccines
- Cessation of drugs, alcohol and tobacco
- Taper off opioids
- Colon cancer surveillance
- · Achieve healthy weight
- Start a prenatal vitamin
- Standard preconception health care (as per ACOG guidelines¹²¹)
- Effective contraception (LARC)

MULTIDISCIPLINARY TEAM

4

- ✓ gastroenterologist
- ✓ gynecologist
- obstetrician
- ✓ paediatrician
- ✓ psycologist
- nutrinionist
- ✓ surgeon

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lactation counselor

Interdisciplinary consultation

- Nutrition: ensure adequate caloric intake and vitamin levels
- MFM: history of prior pregnancy complication
- Colorectal surgeon: history of IPAA or ostomy

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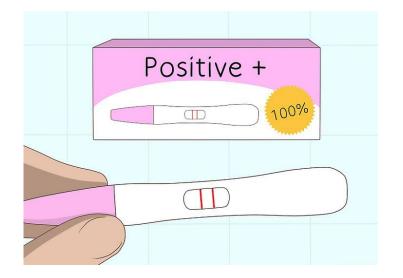


✓ MONITORING OF IBD DURING PREGNANCY

✓ THROMBOEMBOLIC COMPLICATIONS DURING PREGNANCY

✓ IBD FLARES DURING PREGNANCY

- ✓ SURGERY IN PREGNANT WOMEN
- ✓ DRUGS DURING PREGNANCY
- ✓ MODE OF DELIVERY



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MONITORING



Monitoring of pregnancy



Monitoring of IBD

(disease and medications)



Monitoring of nutrition and weight gain

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24-25 NOVEMBRE 2023 BERGAMO > Eur J Intern Med. 2020 Jul;77:105-110. doi: 10.1016/j.ejim.2020.03.015. Epub 2020 Mar 17.

Clinical utility of fecal calprotectin in monitoring disease activity and predicting relapse in pregnant patients with inflammatory bowel diseases

Amihai Rottenstreich ¹, Tali Mishael ², Sorina Grisaru Granovsky ², Benjamin Koslowsky ², Hagai Schweistein ², Guila Abitbol ², Eran Goldin ², Ariella Bar-Gil Shitrit ²

Conclusion: FC appears to be a reliable marker of ongoing disease activity throughout the prenatal course as well as a predictor of imminent disease flare among IBD pregnant patients.



 Observational Study
 > Inflamm Bowel Dis. 2017 Jul;23(7):1240-1246.

 doi: 10.1097/MIB.000000000001136.

Fecal Calprotectin Is Not Affected by Pregnancy: Clinical Implications for the Management of Pregnant Patients with Inflammatory Bowel Disease

Mette Julsgaard ¹, Christian L Hvas, Richard B Gearry, Thea Vestergaard, Jan Fallingborg, Lise Svenningsen, Jens Kjeldsen, Miles P Sparrow, Signe Wildt, Jens Kelsen, Sally J Bell

Conclusions: The physiological changes that occur during pregnancy do not affect FC, in contrast to CRP and HBI/SCCAI. The combined use of FC and PGA seems optimal to assess disease activity in IBD during pregnancy.

SERUM BIOMARKERS

- ✓ haemoglobin
- ✓ albumin
- ✓ C-reactive protein (CRP)

✓ FAECAL CALPROTECTIN

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Monitoring - *when?*

IBD Remission

- \checkmark GI visit every trimester and as needed
- \checkmark complete blood test and FCP every visit

Maternal/fetal monitoring

- ✓ Gyn and obstetrician visit and growth ultrasound based on national guideline
- \checkmark counseling on delivery

IBD Flare

- ✓ GI follow-up every 2 weeks
- \checkmark adjust medication
- \checkmark monitor labs and FCP
- \checkmark strumental evaluation

Maternal/fetal monitoring

- \checkmark fetal growth surveillance every 4 weeks
- ✓ US cervical lenght screening (18-22 wks)
- ✓ nutrition counseling
- Pt on steroids should have early glucose screen
- \checkmark Counseling on delivery

Mahadevan et al Gastroenterology 2019



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FLARE MANGEMENT DURING PREGNANCY

Pregnant women who have new symptoms suggestive of IBD, or those experiencing a flare, may be considered for diagnostic imaging.

Table 1. Options for Flare Management^{61–64,115–120}

Laboratory values	Endoscopy	Radiologic imaging	Surgery	Medication
Standard IBD laboratory values checked Trends for CRP and ESR may be helpful Fecal calprotectin Serum drug concentrations Possibly elevated in pregnancy: ESR CRP Alkaline phosphatase (also elevated in lactation) Reduced in pregnancy: Hemoglobin Albumin	Perform for strong indications: Determining IBD disease activity When result will change management Flexible sigmoidoscopy is preferred over pan-colonoscopy when possible; can be performed unsedated, unprepped, and in any trimester	MRI and CT have similar diagnostic accuracy for assessing IBD Gadolinium should be avoided in pregnancy The cumulative radiation exposure of a single CT scan (about 50 mGy) is below the level of concern Ultrasound, where available is appropriate for terminal ileal disease	Surgical intervention may be needed for: Acute refractory colitis Perforation Abscess Severe hemorrhage Bowel obstruction	Manage similar to nonpregnant IBD patients Exceptions: Thiopurine-naïve patients: avoid first start in pregnancy due to concerns for distinctive rare adverse reactions Methotrexate contraindicated Tofacitinib: avoid due to limited human data

CRP, C-reactive protein; CT, computed tomography; ESR, erythrocyte sedimentation rate; MRI, magnetic resonance imaging.

Full colonoscopy, as well as any sedated procedure performed after 24 weeks, requires a documented discussion with the patient about fetal monitoring and possible need for emergent cesarean section. Mahadevan et al Gastroenterology 2019

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Does lower gastrointestinal endoscopy during pregnancy a risk for mother and child?

Indication		N Maternal a events	adverse Pregnancy outcome	Spontaneo abortion	us Other fetal adverse ev	rents Temporal relation v endoscopy?	with Etiological relation with endoscopy?
Colonoscopy							
IBD & colitis other [21-27]	1	2 None	Live births (n = 11 stillbirth (n = 1)), No (n = 12)	2 premature births (32 and 33 wks), 1 stillbirth (22 wks)	Unclear, paper fails to show which outcome belongs to which patier	No, authors do not link adverse events to nt endoscopy
Table 2 Second trimes	ter fetal a	nd maternal adver	e events (wk 13–26)				
Indication	N	Maternal adverse eve	nts Pregnancy outcome	Premature births	Other fetal adverse events	Temporal relation with endoscopy?	Etiological relation with endoscopy?
Colonoscopy							
IBD & colitis other [24,52-54]	6	None			Jnreported (n = 2), none (n = 4)		Unclear, authors do not link adverse event (stillbirth) to endoscopy
	fetal and	maternal complica	tions (27–42 wks)				
Table 3 Third trimester		Maternal adverse	events Pregnancy out	tcome Premature b	irth Fetal adverse events	Temporal relation with endoscopy?	Etiological relation with endoscopy?
Fable 3 Third trimester ndication	N					with endoscopy.	endoscopyi
	N					with endoscopy	enuscopy

Systematic review 82 studies

endoscopy during pregnancy is of low risk in all three trimesters of pregnancy

> De Lima et al. BMC Gastroenterology 2015

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top ten in gastroenterologia

"EUS can be performed, but it is not useful in the third trimester"

"MRI without Gadolinium can be performed, in case of suspected flare"

"endoscopy can be performed when needed to guide clinical decision making"

"capsule endoscopy is considered a contraindication"

But we have to keep in mind..

Torres J et al JCC 2022 Choden T et al WJG 2018

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Lima et al. JCC 2015

- ✓ procedure time should be minimized
- colon cleansing agents in the pregnant population insufficient data (NO phosfate preparation)
- ✓ the lowest effective dose of sedative medications is recommended (in standard concentration at any gestational age, NO teratogenic effect., avoid Bzd)
- ✓ The decision and the methods used to monitor foetal heart rate depend on gestational age of the foetus and available resources
- ✓ patient should be kept in left pelvic tilt or left lateral position to avoid vena cava or aortic compression



A meta-analysis on the influence of inflammatory bowel disease on pregnancy

J Cornish ¹, E Tan, J Teare, T G Teoh, R Rai, S K Clark, P P Tekkis

Outcome of interest	No of studies	Patients with IBD (n)	Controls (n)	OR (95% CI)	p Value	HG χ^2	HG p value
IBD v Control							
LBW	3	1033	239 864	2.10 (1.38 to 3.19)	<0.001	3.87	0.14
Premature birth	8	1716	298 105	1.87 (1.52 to 2.31)	< 0.001	9.4	0.23
SGA	4	1097	240 931	1.87 (0.61 to 5.7)	0.27	52.36	< 0.001
Still births	4	1243	240 931	1.48 (0.89 to 2.47)	0.13	11.43	0.01
Congenital abnormalities	4	637	2253	2.37 (1.47 to 3.82)	< 0.001	1.43	0.7
Caesarean section	6	1441	297 493	1.50 (1.26 to 1.79)	<0.001	6.39	0.27
UC v control							
LBW	2	1590	9410	1.66 (048 to 5.66)	0.42	4.52	0.03
Premature birth	6	1831	67 524	1.34 (1.09 to 1.64)	0.005	4.02	0.55
SGA	2	1546	9926	1.05 (0.51 to 2.16)	0.90	3.18	0.07
Caesarean section	3	204	57 780	1.30 (0.86 t o1.96)	0.21	2.49	0.29
Congenital abnormalities	2	170	1647	3.88 (1.41 to 10.67)	0.009	1.2	0.27
Crohn's disease v control							
LBW	2	597	3357	2.82 (1.42 to 5.60)	0.003	2.05	0.15
Premature birth	7	1005	61 565	1.97 (1.36 to 2.87)	< 0.001	13.40	0.04
Still births	3	589	3558	1.91 (0.69 to 5.31)	0.22	3.12	0.04
SGA	2	220	1373	5.72 (0.62 to 52.81)	0.12	4.60	0.03
Caesarean section	4	321	57 935	1.65 (1.19 to 2.29)	0.003	3.77	0.29
Congenital abnormalities	3	307	1712	2.14 (0.97 to 4.74)	0.06	0.48	0.79
Crohn's disease v UC							
Premature birth	5	308	427	1.84 (0.78 to 4.34)	0.16	15.70	0.003
SGA	2	160	218	0.99 (0.29 to 3.35)	0.99	1.89	0.17
Caesarean section	4	230	269	1.33 (0.73 to 2.41)	0.35	4.49	0.21

HG, heterogeneity; SGA, small for gestational age; UC, ulcerative colitis. Significant results are shown in bold. 7

✓ PRETERM BIRTH

- ✓ SGA Small for Gestational Age
- ✓ LBW Low BirthWeight
- ✓ GESTATIONAL DIABETES regardless of

corticosteroid use

- PROM pre-labour rupture of membranes
- ✓ CAESAREAN SECTION (> UC)
- ✓ STILLBIRTH
- ✓ LOW APGAR SCORE

BE AWARE OF

DISEASE ACTIVITY !



14[^] EDIZIONE 24-25 NOVEMBRE 2023

A meta-analysis on the influence of inflammatory bowel disease on pregnancy

Review: Comparison of outcomes of pregnant inflammatory bowel disease (IBD) patients and non-inflammatory bowel disease Comparison: 02 prematurity Outcome: 07 IBD v control

Study or sub-category	BD n∕N	Control n/N	OR (random) 95% Cl	Weight %	OR (random) 95% Cl
01 all studies Porter RJ et al Fedorkow DM et al Baird DD et al Larzilliere P et al Dominitz JA et al Bush MC et al Elbaz G et al Subtotal (95% C I)	13/82 17/98 27/125 61/750 14/150 44/262 13/116 25/127 1716	12/164 12/98 27/273 12 741/239 017 20/339 98/1308 5640/56 398 47/508 298 105		6.49 6.97 11.18 24.72 8.35 18.30 11.32 12.67 100.00	2.39 (1.04 to 5.50) 1.50 (0.68 to 3.34) 2.51 (1.40 to 4.49) 1.56 (1.20 to 2.03) 1.64 (0.81 to 3.35) 2.49 (1.70 to 3.66) 1.14 (0.64 to 2.02) 2.40 (1.41 to 4.09) 1.87 (1.52 to 2.31)
Total events: 214 (IBD), 18 597 Test for heterogeneity: $\chi^2 = 9.40$ Test for overall effect: Z = 5.83), df = 7 (p = 0.23), l ²	= 25.5%			
02 high quality studies Kornfield D <i>et al</i> Dominitz JA <i>et al</i> Bush MC <i>et al</i> Subtotal (95% C I) Total events: 118(I BD), 18 294 Test for heterogenity: $\chi^2 = 6.88$ Test for heterogenity: $\chi^2 = 6.38$	l, df = 2 (p = 0.03), l ²	12 741/239 017 93/1308 5460/56 398 296 723 = 70.9%		45.60 33.52 20.88 100.00	1.56 (1.20 to 2.03) 2.64 (1.79 to 3.88) 1.18 (0.66 to 2.01) 1.74 (1.14 to 2.65)
O3 studies published after year Dominitz JA <i>et al</i> Bush MC <i>et al</i> Elbaz G <i>et al</i> Subtotal (95% CI) Total events: 82 (IBD), 5780 (cr Test for heterogeneity: $\chi^2 = 5.9$ Test for overall effect: Z = 2.75	44/262 13/116 25/127 505 5ntrol) 5, df = 2 (p = 0.05), I ²	93/1308 5640/56 398 47/508 58 214 = 66.4%	 •	43.10 26.84 30.06 100.00	2.64 (1.79 to 3.88) 1.14 (0.64 to 2.02) 2.40 (1.41 to 4.09) 1.99 (1.22 to 3.26)
04 study group > 100 Baird DD et al Kornfield D et al Dominitz JA et al Bush MC et al Elbaz G et al Subtotal (95% CI) Total events: 170 (IBD), 18 276 Test for heterogeneity: $\chi^2 = 9.1$ Test for overall effect: Z = 4.39	5, df = 4 (p = 0.06), l ²	27/273 12 471/239 017 93/1308 5640/56 398 47/508 297 504 = 56.3%		14.33 31.67 23.28 14.50 16.23 100.00	2.51 {1.40 to 4.49} 1.59 {1.23 to 2.07} 2.64 {1.79 to 3.88} 1.14 {0.64 to 2.02} 2.40 {1.41 to 4.09} 1.95 {1.45 to 2.63}
		0.1 0. Eavoi	2 0.5 1 2 5 rs control Favours I		

 Review
 Comparison of outcomes of pregnant Inflammatory bowel disease (IBD) patients and non-Inflammatory bowel disease

 Comparison:
 06 Mode of delivery-caesarean section

 Outcome:
 06 IBD v controls

Study or sub-category	∎BD n/N	Control n/N	OR (random) 95% C l	Weight %	(OR (random) 95% Cl
01 all studies						
Porter RJ et al	17/82	17/164	_	3.66	2.26	(1.09 to 4.71)
Fedorkow DM et al	19/98	24/98		2.24	0.74	(0.38 to 1.46)
Kornfield D et al	115/756	24 387/239 017	-	49.63	1.58	(1.29 to 1.93)
Dominitz JA et al	73/262	254/1308		21.41	1.60	(1.18 to 2.17)
Bush MC et al	37/116	12 408/56 398	 −∎−	12.85	1.66	(1.12 to 2.45)
Elbaz G et al	26/127	87/508	- -	8.21	1.25	(0.76 to 2.03)
Subtotal (95% Cl)	1441	297 493	•	100.00	1.51	(1.27 to 1.81)
Total events:287 (IBD),37 177	7 (control)		·			
Test for heterogeneity: $\chi^2 = 6$. Test for overall effect: Z = 4.5		² = 22.9%				
	9 (p<0.001)					
02 high quality studies						
Kornfield D et al	11/756	24 827/239 017	-	59.16	1.55	(1.27 to 1.89)
Dominitz JA et al	73/262	254/1308		25.52	1.60	(1.18 to 2.17)
Bush MC et al	37/116	12 408/56 398		15.32	1.66	(1.12 to 2.45)
Subtotal (95% CI)	1134	296 723	•	100.00	1.58	(1.35 to 1.84)
Total events: 225 (IBD), 37 4						
Test for heterogenity: $\chi^2 = 0.1$		= 0%				
Test for overall effect: Z = 5.8	4 (p = 0.001)					
03 studies published after 200						
Dominitz JA et al	73/262	254/1308		50.41	1.60	(1.18 to 2.17)
Bush MC et al	37/116	12 408/56 398		30.25	1.66	(1.12 to 2.45)
Elbaz G et al	26/127	87/508	+	19.34	1.25	(0.76 to 2.03)
Subtotal (95% Cl)	505	58 214	•	100.00	1.54	(1.24 to 1.91)
Total events: 136 (IBD), 12 7		n				
Test for heterogeneity: $\chi^2 = 0$.		° = 0%				
Test for overall effect: Z = 3.9	5 (p<0.001)					
04 study group>100						
Kornfield D et al	115/756	24 837/239 017	-	53.88		(1.27 to 1.89)
Dominitz JA et al	73/262	254/1308		23.25	1.60	(1.18 to 2.17)
Bush MC et al	37/116	12 408/56 398		13.95		(1.12 to 2.45)
Elbaz G et al	26/127	87/508		8.92	1.25	(0.76 to 2.03)
Subtotal (95% CI)	1261	297 231	(•)	100.00	1.55	(1.34 to 1.79)
Total events: 251 (IBD), 37 58						
Test for heterogeneity: $\chi^2 = 0$. Test for overall effect: Z = 5.8		² = 0%				
	- (p. 101001)					
		0.1 0.1	2 0.5 1 2 5 Control I BD	5 10		

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24-25 NOVEMBRE 2023 BERGAMO

MANAGING IBD FLARES DURING PREGNANCY



24-25 NOVEMBRE 2023

> J Crohns Colitis. 2023 Jan 27;17(1):1-27. doi: 10.1093/ecco-jcc/jjac115.

European Crohn's and Colitis Guidelines on Ecco Sexuality, Fertility, Pregnancy, and Lactation

Joana Torres ¹ ² ³, María Chaparro ⁴, Mette Julsgaard ⁵ ⁶, Konstantinos Katsanos ⁷, Zuzana Zelinkova ⁸ ⁹, Manasi Agrawal ¹⁰ ⁶, Sandro Ardizzone ¹¹, Marjo Campmans-Kuijpers ¹², Gabriele Dragoni ¹³ ¹⁴, Marc Ferrante ¹⁵ ¹⁶, Gionata Fiorino ¹⁷, Emma Flanagan ¹⁸, Catarina Frias Gomes ¹, Ailsa Hart ¹⁹, Charlotte Rose Hedin ²⁰ ²¹, Pascal Juillerat ²² ²³, Annemarie Mulders ²⁴, Pär Myrelid ²⁵ ²⁶, Aoibhlinn O'Toole ²⁷, Pauline Rivière ²⁸, Michael Scharl ²⁹, Christian Philipp Selinger ³⁰ ³¹, Elena Sonnenberg ³², Murat Toruner ³³, Jantien Wieringa ³⁴ ³⁵, C Janneke Van der Woude ³⁶



✓ MULTIDISCIPLINARY TEAM

- ✓ MANAGEMENT ACCORDING TO CURRENT GUIDELINES FOR NON-PREGNANT WOMEN (5-ASA, steroids, *ciclosporin*, anti-TNF agents, ustekinumab or vedolizumab
- AVOID thiopurine, MTX, JAK inhibitors, S1P receptors modulators
- ✓ FLARE BEYOND WEEK 37 → consider early delivery



> J Crohns Colitis. 2023 Jan 27;17(1):1-27. doi: 10.1093/ecco-jcc/jjac115.

European Crohn's and Colitis Guidelines on Sexuality, Fertility, Pregnancy, and Lactation



[DRUG	MANAGEMENT		
	5-ASA	All preparation are now dibutyl phtalate free. CONTINUE		
5-AMINOSALYCILATES	Sulphasalazine	Supplementation with folate CONTINUE		
	budesonide – budesonide MMX	CONTINUE		
CORTICOSTEROIDS	others	WARNING maternal-fetal complication (hypertension, diabetes, preeclampsia)		
ANTIBIOTICS	metronidazole	CONTINUE		
	ciprofloxacin	AVOID in T1		
THIOPURINE	monotherapy	CONTINUE		
	combo therapy	DISCONTINUE		



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> J Crohns Colitis. 2023 Jan 27;17(1):1-27. doi: 10.1093/ecco-jcc/jjac115.

European Crohn's and Colitis Guidelines on Sexuality, Fertility, Pregnancy, and Lactation



[DRUG	MANAGEMENT		
	ciclosporin			
CALCINEURIN INHIBITORS	tacrolimus	LIMITED DATA		
METHOTREXATE		DISCONTINUE (counselling!)		
THALIDOMIDE		DISCONTINUE (counselling!)		
anti TNF		CONTINUE (if discontinued, resumption shortly)		
vedolizumab		continue (LIMITED DATA)		
ustekinumab / risankizumab		continue (LIMITED DATA)		
Small molecules (tofacitinib,	filgotinib, upadacitinib)	DISCONTINUE / CONTRAINDICATED		
S1P receptors modulators (ozanimod)		DISCONTINUE / CONTRAINDICATED		

24-25 NOVEMBRE 2023



anti-TNF



> Gut. 2016 Aug;65(8):1261-8. doi: 10.1136/gutjnl-2015-309321. Epub 2015 May 12.

Tailored anti-TNF therapy during pregnancy in patients with IBD: maternal and fetal safety

A de Lima¹, Z Zelinkova², C van der Ent¹, E A P Steegers³, C J van der Woude¹

Comparative Study > Inflamm Bowel Dis. 2020 Jun 18;26(7):1110-1117. doi: 10.1093/ibd/izz250.

Early Discontinuation of Infliximab in Pregnant Women With Inflammatory Bowel Disease

Brindusa Truta¹, Ira L Leeds¹², Joseph K Canner², Jonathan E Efron², Sandy H Fang², Azah Althumari¹, Bashar Safar²

Conclusions: To limit anti-TNF exposure in utero, anti-TNF can be stopped safely in the second trimester in women with IBD in sustained remission. In patients not in sustained remission, anti-TNF may be continued without clear additional risks to the fetus. We observed excellent 1-year child outcomes compared with children from non-IBD controls.

Conclusions: Steroid-free remission IBD mothers are at risk for disease flares and preterm babies when IFX is discontinued early in pregnancy. Continuation of IFX seems to be safe at least for the first year of life.



24-25 NOVEMBRE 2023

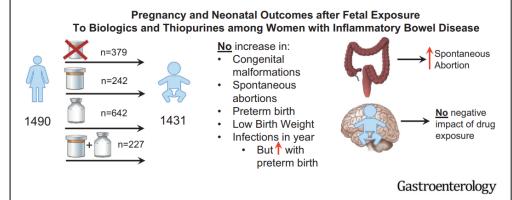


Neonatal Outcomes After Fetal Exposure to Biologics and Thiopurines among women with IBD

PIANO Study

Pregnancy in Inflammatory Bowel **Disease and Neonatal Outcomes** Prospective, observational, multicenter USA study, from 2007 to 2019

Event	Overall	No Exposure (n=379)	Biologics (n=642)	Thiopurine (n=242)	Combination (n=227)	р
Any Pregnancy Complications (%) excluding IUGR^, Cesarean Section or Preterm Delivery] *	280 / 1,389 (20)	66 / 352 (19)	127 / 600 (21)	52 / 226 (23)	35 / 211 (17)	0.30
Spontaneous Abortion (%)	42 / 1,485 (3)	10 / 378 (3)	19/640 (3)	7 / 242 (3)	6 / 225 (3)	0.99
Preterm Birth [<37 weeks] (%)	132 / 1,364 (10)	33 / 343 (10)	43 / 594 (7)	28 / 221 (13)	28 / 206 (14)	0.02
small for Gestational Age (%)	58 / 1,353 (4)	15 / 340 (4)	31 / 588 (5)	5 / 221 (2)	7 / 204 (5)	0.26
ow Birth Weight [<2500 g] (%)	91 / 1,367 (7)	24 / 342 (7)	39 / 594 (7)	12/ 225 (5)	16 / 206 (8)	0.77
ntrauterine Growth Restriction (%)	30 / 1,489 (2)	10 / 378 (3)	13 / 642 (2)	2 / 242 (1)	5/227 (2)	0.47
Cesarean Section (%)	611 / 1,376 (44)	135 / 345 (39)	268 / 598 (45)	102 / 226 (45)	106 / 207 (51)	0.05
Neonatal ICU at Birth (%)	137 / 1,383 (10)	32 / 348 (9)	57 / 600 (10)	23 / 227 (10)	25 / 208 (12)	0.71
Any Congenital Malformations (%)	126 / 1,394 (9)	26 / 354 (7)	57 / 606 (9)	22 / 224 (10)	21 / 210 (10)	0.63



*From questionnaires and medical records. Exposure was defined as use of thiopurines or biologic in the 3 months before last menstrual period or any time during pregnancy

14^ EDIZIONE

24-25 NOVEMBRE 2023



Observational Study > J Crohns Colitis. 2022 Dec 5;16(12):1808-1815.

doi: 10.1093/ecco-jcc/jjac086.

Safety of Ustekinumab and Vedolizumab During Pregnancy-Pregnancy, Neonatal, and Infant Outcome: A Prospective Multicentre Study

Katarina Mitrova ^{1 2}, Barbora Pipek ^{3 4 5}, Martin Bortlik ^{6 7 8}, Ludek Bouchner ⁹, Jan Brezina ¹⁰, Tomas Douda ¹¹, Tomas Drasar ¹², Pavel Klvana ¹³, Pavel Kohout ¹⁴, Vaclav Leksa ¹⁵, Petra Minarikova ⁸, Ales Novotny ¹⁶, Pavel Svoboda ⁵, Jan Skorpik ¹⁷, Jan Ulbrych ^{18 19}, Marek Veinfurt ²⁰, Blanka Zborilova ²⁰, Milan Lukas ¹, Dana Duricova ^{1 7}; Czech IBD Working Group

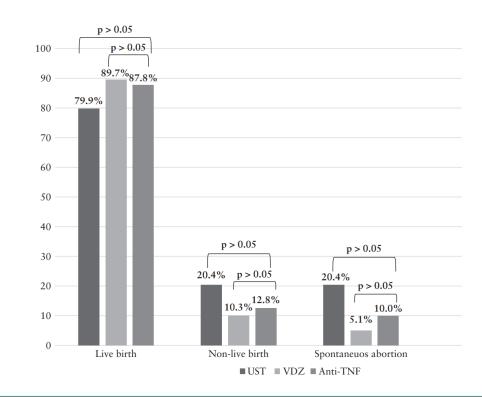
Table	2	Newborn	outcome.

	Ustekinumab n = 43	Vedolizumab $n = 35$	Anti-TNF $n = 79$	<i>p</i> -value UST vs anti-TNF	<i>p</i> -value VDZ vs anti-TNF
Preterm birth [%]	1 [2.3]	3 [8.6]	5 [6.3]	0.423	0.699
Gestational age at birth ^a	39 [35-41]	39 [26-41]	39 [31-42]	0.246	0.249
Caesarean section [%]	25 [58.1]	19 [54.3]	38 [48.1]	0.289	0.685
Biologics, last application [g.w.] ^a	33 [18-38] ^b	33 [18-38] ^b	30 [22-39]	0.008	0.090
Birthweight [g] ^a	3250 [2240-4230]	3098 [650-3780]	3291 [1435-4170]	0.391	0.134
Low birthweight [%]	3 [7.0]	4 [11.4]	4 [5.1]		
Low birthweight [%]	3 [7.0]	1 [3.1]	0		
[Term deliveries only]					
Apgar score <7 [%]	1 [2.3]	1 [2.9]	2 [2.5]	1.00	1.00
Perinatal complications [%]	2 [4.7]	3 [8.6]	7 [8.9]	0.491	1.00
Icterus with phototherapy	1	1	5		
Bronchopneumonia	-	1	-		
RDS + sepsis [E. coli]	-	1	1		
Congenital toxoplasmosis	1	-	-		
Umbilical infection	-	-	1		
[Staphylococcus sp.]					
Congenital malformation [%]	3 [7.0]	2 [5.7]	2 [2.5]	0.344	0.585

Pregnancies exposed to:

- ✓ Ustekinumab 54
- ✓ Vedolizumab 39
- ✓ Anti TNF 70

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anti jak and PREGNANCY

In animal studies, tofacitinib was feticidal and teratogenic in rats and rabbits (exposures many times greater than the standard human dose).

TABLE 3: Pregnancy Outcomes in Cases of Maternal or Paternal Exposure Identified in the Tofacitinib UC Intervention Studies

Cases of Exposure	Maternal Exposure to Tofacitinib (n = 11), No. (% of Identified Cases)	Paternal Exposure to Tofacitinib (n = 1 No. (% of Identified Cases)		
Healthy newborn ^a	4 (36.4)	11 (78.6)		
Medical termination ^b	2 (18.2)	0 (0.0)		
Neonatal death	0 (0.0)	0 (0.0)		
Fetal death	0 (0.0)	0 (0.0)		
Congenital malformation	0 (0.0)	0 (0.0)		
Spontaneous abortion	2 (18.2)	0 (0.0)		
Pending or lost to follow-up	3 (27.3)	3 (21.4)		

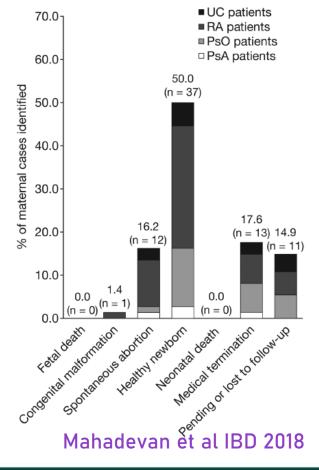
^aIncludes 1 preterm birth (36 weeks, 2.92 kg).

in gastroenterologia

^bCase #1: the patient decided to terminate the pregnancy based on the potential risks of tofacitinib. Case #2: reason unknown.

Reported outcomes of pregnancy cases identified from tofacitinib RCT, post-approval and non-interventional studies, and spontaneous adverse-event reporting appear similar to those observed in the general population.

At present, the use of tofacitinib during pregnancy should be avoided.



24-25 NOVEMBRE 20**23**



MODE OF DELIVERY

"Natural childbirth is not prohibited"

Torres J, JCC 2022

Statement 29

The mode of delivery does not seem to influence outcome of patients with IBD regarding development or worsening of inactive perianal disease [EL2] and anal sphincter damage [EL2]

Statement 30

Mode of delivery should be guided by obstetric considerations. In patients with active perianal disease, prior rectovaginal fistula, and after restorative proctocolectomy, C-section is recommended after multidisciplinary discussion involving gastroenterologists, obstetricians, and IBD surgeons [EL5]

Vaginal Delivery







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✓ RISK OF POSTPARTUM FLARE

- ✓ BREASTFEEDING WITH IBD
- ✓ VACCINATIONS





RISK OF POSTPARTUM FLARE

- ✓ relapse postpartum rate 25-50% (UC > CD)
- ✓ predictors
 - disease activity during T3
 - therapy de-escalation during and after pregnancy
 - longer duration of disease (> CD)
- $\checkmark\,$ if discontinued, resumed the treatment asap



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BREASTFEEDING

> J Crohns Colitis. 2023 Jan 27;17(1):1-27. doi: 10.1093/ecco-jcc/jjac115.

European Crohn's and Colitis Guidelines on Sexuality, Fertility, Pregnancy, and Lactation

DRUG		MANAGEMENT		
5-AMINOSALYCILATES	5-ASA	LOW RISK		
	Sulphasalazine	LOW RISK		
CORTICOSTEROIDS	budesonide – budesonide MMX	LOW RISK		
	others	LOW RISK		
ANTIBIOTICS	metronidazole	AVOID		
	ciprofloxacin	LOW RISK (short-term, alternatives?)		
THIOPURINE		LOW RISK		



14[^] EDIZIONE



BREASTFEEDING

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European Crohn's and Colitis Guidelines on Sexuality, Fertility, Pregnancy, and Lactation

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DRUG		MANAGEMENT		
CALCINEURIN INHIBITORS	ciclosporin	LIMITED DATA		
	tacrolimus			
METHOTREXATE		AVOID		
THALIDOMIDE		AVOID		
anti TNF		LOW RISK		
vedolizumab / ustekinumab / risankizumab		LOW RISK (LIMITED DATA)		
Small molecules (tofacitinib, filgotinib, upadacitinib)		AVOID (NO DATA)		
S1P receptors modulators (ozanimod)		AVOID (NO DATA)		



VACCINATIONS



> J Crohns Colitis. 2023 Jan 27;17(1):1-27. doi: 10.1093/ecco-jcc/jjac115.

European Crohn's and Colitis Guidelines on Sexuality, Fertility, Pregnancy, and Lactation

Joana Torres ¹ ² ³, María Chaparro ⁴, Mette Julsgaard ⁵ ⁶, Konstantinos Katsanos ⁷, Zuzana Zelinkova ⁸ ⁹, Manasi Agrawal ¹⁰ ⁶, Sandro Ardizzone ¹¹, Marjo Campmans-Kuijpers ¹², Gabriele Dragoni ¹³ ¹⁴, Marc Ferrante ¹⁵ ¹⁶, Gionata Fiorino ¹⁷, Emma Flanagan ¹⁸, Catarina Frias Gomes ¹, Ailsa Hart ¹⁹, Charlotte Rose Hedin ²⁰ ²¹, Pascal Juillerat ²² ²³, Annemarie Mulders ²⁴, Pär Myrelid ²⁵ ²⁶, Aoibhlinn O'Toole ²⁷, Pauline Rivière ²⁸, Michael Scharl ²⁹, Christian Philipp Selinger ³⁰ ³¹, Elena Sonnenberg ³², Murat Toruner ³³, Jantien Wieringa ³⁴ ³⁵, C Janneke Van der Woude ³⁶

Statement 34

14[^] EDIZIONE

Inactivated vaccines are recommended according to national guidelines. In children exposed *in utero* to biologics, live attenuated vaccines should be withheld within the first year of life or until the biologic is no longer detectable in the infant's blood [EL3]





24-25 NOVEMBRE 2023 BERGAMO



TAKE HOME MESSAGES

✓ conception and pregnancy are important life events

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- ✓ a concomitant diagnosis of IBD brings additional layer of concern and anxiety
- ✓ counseling
- ✓ monitoring
- ✓ disease activity





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"I will not be able to have children"

"IBD have a negative impact on my

pregnancy"

"I have to stop ALL IBD medications"

"My children will have an IBD as well"





ECCO GUIDELINES ON SEXUALITY, FERTILITY, PREGNANCY AND LACTATION



J. Torres et al JCC 2023 17, 1 – 27

BEFORE PREGNANCY

- Discuss disease heritability
- Smoking, alcohol and recreational drug cessation
- Ensure cervical cancer screening and vaccinations are updated
- Screen for anemia and vitamin deficiencies
- Folic acid prescription
- Review safety of drugs during pregnancy: stop methotrexate, Jak inhibitors, and ozanimod before conception, and consider alternative therapy to ensure good disease control
- Assess disease activity, optimize treatment to ensure disease remission
- Establish an individualized plan with the patient for disease monitoring and management during pregnancy
- Discuss risk/benefit of drug maintenance during pregnancy and lactation



"The exams for IBD monitoring can cause problems for the baby" "Colonoscopy is forbidden" "Now the priority is the child and not the activity of my illness" "I will have to give birth with a caesarean" ECCO GUIDELINES ON SEXUALITY, FERTILITY, PREGNANCY AND LACTATION



J. Torres et al JCC 2023 17, 1 – 27

DURING PREGNANCY

- Discuss risk/benefit of drug maintenance during pregnancy
- Establish a plan for delivery and mode of delivery
- Monitor with faecal calprotectin and intestinal ultrasound if available
- Monitor for adequate weight gain during pregnancy
- Discuss risk/benefit of drug maintenance during lactation

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- Discuss safety of vaccination in the children
- Discuss management plan with family doctor and/or obstetrician

24-25 NOVEMBRE 2023

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"I can't breastfeed"

"what about vaccines?"

"I feel alone with my child

and my illness"

ECCO GUIDELINES ON SEXUALITY, FERTILITY, PREGNANCY AND LACTATION



J. Torres et al JCC 2023 17, 1 – 27

AFTER DELIVERY

- Promptly restart treatment in women that stopped therapy during pregnancy
- Discuss safety of drugs during lactation

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- Postpone live vaccines during the first 6–12 months of life in children exposed to biologics in utero, or until levels in children are undetectable
- Screen for mental health problems in the postpartum period



Disease management

- 3-month steroid-free remission prior to conception
- Confirm remission with endoscopy or other objective markers

PRECONCEPTION

in gastroenterologia

IBD and PREGNANCY (IN DREAMLAND ?)

Medication management

- Stop methotrexate ≥ 3 months prior to conception
- Continue mesalamine
- Sulfasalazine requires 2 mg folic acid daily
- Taper off corticosteriods
- Continue azathioprine monotherapy
- Continue biologic therapy
 - Measure serum drug levels
 - Consider risk/benefit of stopping concomitant azathioprine
- Tofacitinib: avoid or use with caution

Healthcare maintenance

- Up-to-date Papanicolaou smear
- Vaccines
- Cessation of drugs, alcohol and tobacco
- Taper off opioids
- Colon cancer surveillance
- · Achieve healthy weight
- Start a prenatal vitamin
- Standard preconception health care (as per ACOG guidelines¹²¹)
- Effective contraception (LARC)

MULTIDISCIPLINARY TEAM

4

- ✓ gastroenterologist
- ✓ gynecologist
- obstetrician
- ✓ paediatrician
- ✓ psycologist
- nutrinionist
- ✓ surgeon

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lactation counselor

Interdisciplinary consultation

- Nutrition: ensure adequate caloric intake and vitamin levels
- MFM: history of prior pregnancy complication
- Colorectal surgeon: history of IPAA or ostomy

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MONITORING



Monitoring of pregnancy



Monitoring of IBD

(disease and medications)



Monitoring of nutrition and weight gain

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Monitoring - *when?*

IBD Remission

- \checkmark GI visit every trimester and as needed
- \checkmark complete blood test and FCP every visit

Maternal/fetal monitoring

- ✓ Gyn and obstetrician visit and growth ultrasound based on national guideline
- \checkmark counseling on delivery

IBD Flare

- ✓ GI follow-up every 2 weeks
- \checkmark adjust medication
- \checkmark monitor labs and FCP
- \checkmark strumental evaluation

Maternal/fetal monitoring

- \checkmark fetal growth surveillance every 4 weeks
- \checkmark US cervical lenght screening (18-22 wks)
- \checkmark nutrition counseling
- Pt on steroids should have early glucose screen

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Mahadevan et lal)Gastroente

24-25 NOVEMBRE 2023

 \checkmark Counseling on delivery



A meta-analysis on the influence of inflammatory bowel disease on pregnancy

J Cornish ¹, E Tan, J Teare, T G Teoh, R Rai, S K Clark, P P Tekkis

Outcome of interest	No of studies	Patients with IBD (n)	Controls (n)	OR (95% CI)	p Value	HG χ^2	HG p value
IBD v Control							
LBW	3	1033	239 864	2.10 (1.38 to 3.19)	<0.001	3.87	0.14
Premature birth	8	1716	298 105	1.87 (1.52 to 2.31)	< 0.001	9.4	0.23
SGA	4	1097	240 931	1.87 (0.61 to 5.7)	0.27	52.36	< 0.001
Still births	4	1243	240 931	1.48 (0.89 to 2.47)	0.13	11.43	0.01
Congenital abnormalities	4	637	2253	2.37 (1.47 to 3.82)	< 0.001	1.43	0.7
Caesarean section	6	1441	297 493	1.50 (1.26 to 1.79)	<0.001	6.39	0.27
UC v control							
LBW	2	1590	9410	1.66 (048 to 5.66)	0.42	4.52	0.03
Premature birth	6	1831	67 524	1.34 (1.09 to 1.64)	0.005	4.02	0.55
SGA	2	1546	9926	1.05 (0.51 to 2.16)	0.90	3.18	0.07
Caesarean section	3	204	57 780	1.30 (0.86 t o1.96)	0.21	2.49	0.29
Congenital abnormalities	2	170	1647	3.88 (1.41 to 10.67)	0.009	1.2	0.27
Crohn's disease v control							
LBW	2	597	3357	2.82 (1.42 to 5.60)	0.003	2.05	0.15
Premature birth	7	1005	61 565	1.97 (1.36 to 2.87)	< 0.001	13.40	0.04
Still births	3	589	3558	1.91 (0.69 to 5.31)	0.22	3.12	0.04
SGA	2	220	1373	5.72 (0.62 to 52.81)	0.12	4.60	0.03
Caesarean section	4	321	57 935	1.65 (1.19 to 2.29)	0.003	3.77	0.29
Congenital abnormalities	3	307	1712	2.14 (0.97 to 4.74)	0.06	0.48	0.79
Crohn's disease v UC							
Premature birth	5	308	427	1.84 (0.78 to 4.34)	0.16	15.70	0.003
SGA	2	160	218	0.99 (0.29 to 3.35)	0.99	1.89	0.17
Caesarean section	4	230	269	1.33 (0.73 to 2.41)	0.35	4.49	0.21

HG, heterogeneity; SGA, small for gestational age; UC, ulcerative colitis. Significant results are shown in bold. 7

✓ PRETERM BIRTH

- ✓ SGA Small for Gestational Age
- ✓ LBW Low BirthWeight
- ✓ GESTATIONAL DIABETES regardless of

corticosteroid use

- PROM pre-labour rupture of membranes
- ✓ CAESAREAN SECTION (> UC)
- ✓ STILLBIRTH
- ✓ LOW APGAR SCORE

BE AWARE OF

DISEASE ACTIVITY !



14[^] EDIZIONE 24-25 NOVEMBRE 2023

MANAGING IBD FLARES DURING PREGNANCY



24-25 NOVEMBRE 2023

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✓ MULTIDISCIPLINARY TEAM

- ✓ MANAGEMENT ACCORDING TO CURRENT GUIDELINES FOR NON-PREGNANT WOMEN (5-ASA, steroids, *ciclosporin*, anti-TNF agents, ustekinumab or vedolizumab
- AVOID thiopurine, MTX, JAK inhibitors, S1P receptors modulators
- ✓ FLARE BEYOND WEEK 37 → consider early delivery



anti-TNF



> Gut. 2016 Aug;65(8):1261-8. doi: 10.1136/gutjnl-2015-309321. Epub 2015 May 12.

Tailored anti-TNF therapy during pregnancy in patients with IBD: maternal and fetal safety

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VACCINATIONS



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Statement 34

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24-25 NOVEMBRE 2023 BERGAMO