
DRUG SAFETY

☐ Vedolizumab

☐ <0.6% risk of serious infections

☐ No cases of PML

☐ <1% risk of malignancy

DRUG SAFETY

? Tofacitinib

? Herpes Zoster

? Serious infection

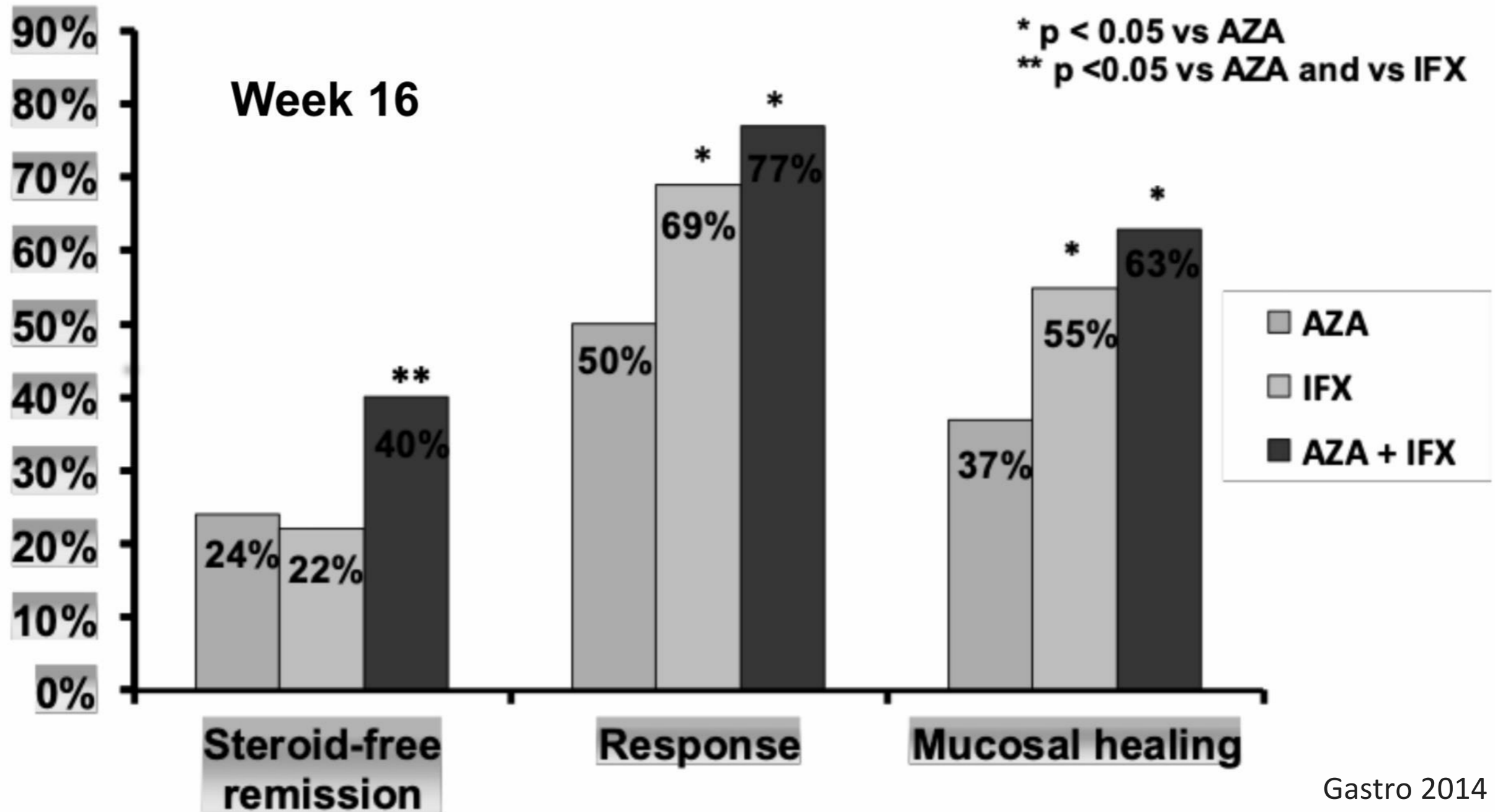
? Non-melanoma skin cancer

? Increase HDL/LDL

? PE

UC SUCCESS

Combo Vs. Monotherapy in Mod to Severe UC



IFX+AZA better than IFX or AZA monotherapy in inducing steroid free remission

IMMUNE MODULATORS

- ❑ MTX, 6-MP, Azathioprine
- ❑ Trend in using in combination instead as monotherapy
- ❑ Reduce antibody formation to anti-TNF drugs
- ❑ Main driver in the lymphoma risk
 - ❑ Higher risk in males <30 or >50
 - ❑ Risk does not persist after discontinuation
 - ❑ Consider temporary use in combination (1 year)

CROHN'S DISEASE

CROHNS DISEASE

- ❑ Chronic idiopathic inflammatory condition
- ❑ Hallmark symptoms:
 - ❑ Abdominal pain, diarrhea, fatigue
 - ❑ Others: weight loss, failure to thrive, anemia, fistulas or extraintestinal manifestations
- ❑ Progressive and destructive

CROHN'S DISEASE

- ❑ 50% develop intestinal complications within 20 yr of dx
- ❑ Symptoms do NOT correlate with disease activity
- ❑ 25% perianal dz
- ❑ 80% require hospitalization at some point
- ❑ 10 yr risk of surgery 30-55%

CROHN'S DISEASE

- ❑ Classify disease

 - ❑ Location

 - ❑ Disease behavior

CROHN'S DISEASE

❑ Disease location:

❑ Ileal

❑ Colonic

❑ Ileocolonic

❑ Upper

DISEASE BEHAVIOR

☐ Inflammatory

☐ Abdominal pain

☐ Fever

☐ Diarrhea

☐ Responds best to medical therapy

DISEASE BEHAVIOR

☐ Stricturing:

☐ Post-prandial pain

☐ Vomiting

☐ Weight loss

☐ Higher likelihood of needing surgery

DISEASE BEHAVIOR

❑ Penetrating:

❑ Aggressive disease

❑ Often needs surgery

❑ Fistulas — enteroenteric, rectovaginal, enterocutaneous, retroperitoneal

DISEASE BEHAVIOR

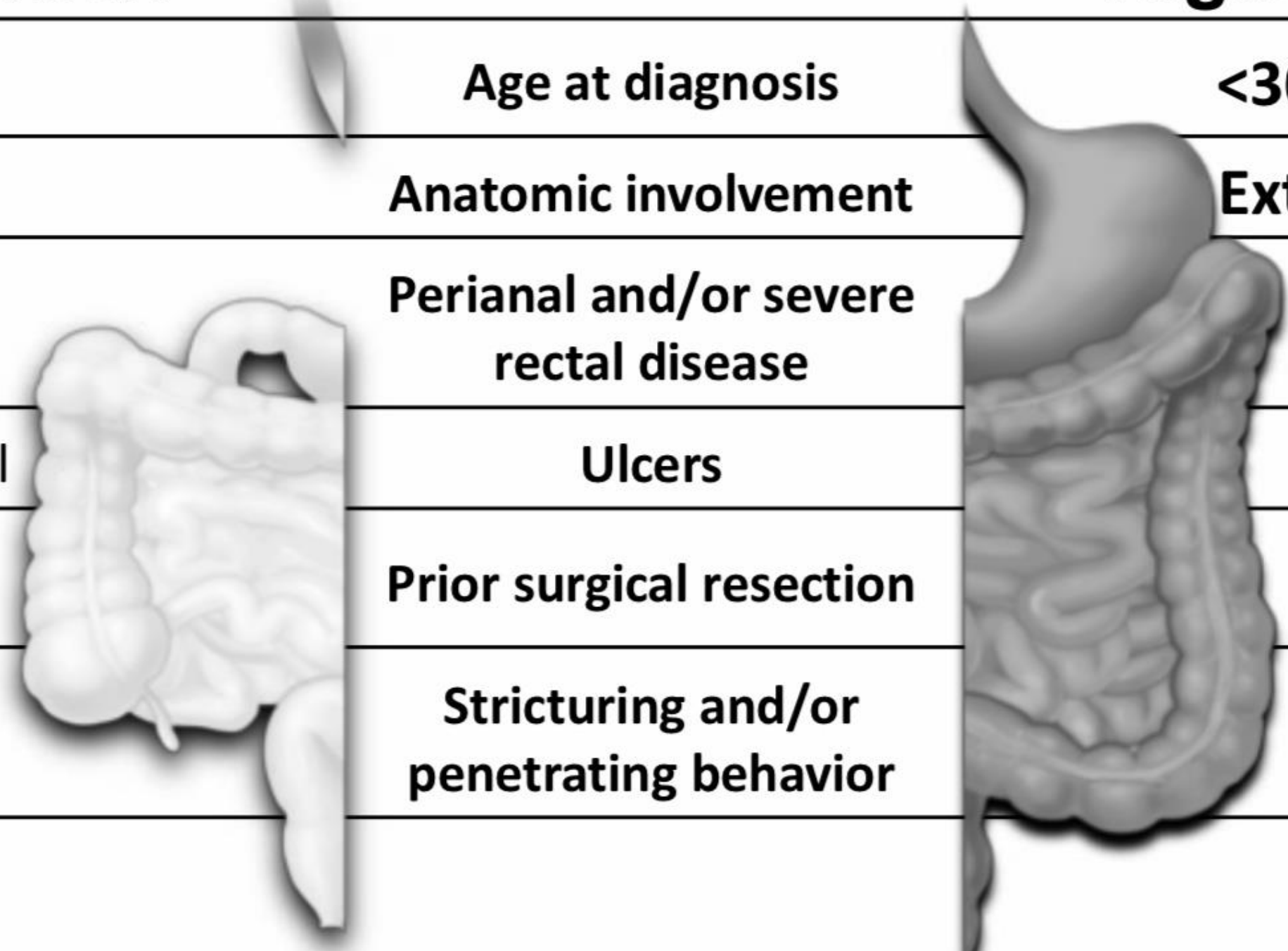
- ❑ Perianal disease:
 - ❑ Aggressive form of disease
 - ❑ Symptoms: painful defecation, bleeding, drainage, rectal pain

RISK STRATIFY

Low-Risk

High-Risk

>30 years	Age at diagnosis	<30 years
Limited	Anatomic involvement	Extensive
No	Perianal and/or severe rectal disease	Yes
Superficial	Ulcers	Deep
No	Prior surgical resection	Yes
No	Strictureing and/or penetrating behavior	Yes



TREATMENT

❑ Modifiable factors:

❑ NSAIDs

❑ Can exacerbate disease activity

❑ Avoid if possible

❑ Cigarette smoking

❑ Exacerbates disease activity

❑ Accelerates disease recurrence

TREATMENT

❑ Treatments to AVOID:

❑ Mesalamine should be avoided in Crohn's dz

❑ Antibiotics (Cipro/Flagyl) should not be use in luminal disease for remission

TREATMENT

❑ Low Risk:

❑ Sulfasalazine for colonic disease

❑ Ileal release budesonide for ileal disease

❑ Other potential options:

❑ Observation

❑ Symptomatic treatment

TREATMENT - INDUCTION

❑ High risk:

❑ Steroids

❑ MTX, 6-MP, Azathiopurine — No role for induction

❑ No better than placebo

TREATMENT - MAINTENANCE

❑ Anti-TNF

❑ Infliximab, Adalimumab, Certolizumab

❑ Combo trx better than monotherapy in Naive patients

❑ Anti Integrin

❑ Vedolizumab — with or without combo therapy

❑ Anti IL-12/23

❑ Ustekimumab — with or without combo therapy

SURGICAL INDICATIONS

- ❑ Life threatening hemorrhage
- ❑ Perforation
- ❑ Strictureing disease
- ❑ Medically refractory disease

POST OPERATIVE CROHN'S DISEASE

❑ Risk of recurrence

❑ High:

- ❑ <30 y/o
- ❑ 2 previous surgeries
- ❑ Penetrating dz
- ❑ Smoker

❑ Low:

- ❑ >50 y/o
- ❑ First surgery for short stenosis (<10-20 cm)
- ❑ Nonsmoker
- ❑ Dz duration >10 years

POST-OPERATIVE CROHN'S

- ❑ Early treatment favored
 - ❑ Within 8 weeks
 - ❑ Treat with anti-TNF and/or azathiopurine
 - ❑ Avoid mesalamine
 - ❑ For low risk recurrence - could consider endoscopy guided trx

POST-OPERATIVE CROHN'S

- ❑ Repeat endoscopy at 6-12 months
- ❑ Guides trx decisions
 - ❑ Those on trx — change needed?
 - ❑ Those not on trx — add trx?

POST-OPERATIVE CROHN'S

ENDOSCOPIC RECURRENCE SCORE

- ❑ Low risk post-operative recurrence
 - ❑ i0: no lesions
 - ❑ i1: <5 aphthous lesions
- ❑ High risk post-operative recurrence
 - ❑ i2: >5 aphthous lesions with normal intervening mucosa
 - ❑ i3: diffuse aphthous ileitis with inflamed mucosa
 - ❑ i4: Diffuse inflammation with large ulcers, nodules, and/or narrowing

POST-OPERATIVE CROHN'S

- ❑ Continued endoscopic monitoring every 1-3 years
- ❑ Recurrence is common:
 - ❑ Endoscopic: 70-90% at 1 year
 - ❑ Symptomatic: 30% at 3 years
- ❑ Smoking is the **ONLY** modifiable risk factor

IBD IN PREGNANCY

PREGNANCY

❑ Important to have a plan

❑ Risks:

❑ Miscarriage

❑ Small for gestational age baby

❑ Premature delivery

❑ Poor maternal weight gain

❑ Complications of L&D (preeclampsia, abruption, need for C-section)

PREGNANCY

☐ Multidisciplinary approach

☐ GI

☐ MFM

☐ Nutrition

☐ Colorectal surgery

PREGNANCY

- ❑ Steroid free remission for 3 months prior to conception
- ❑ Off Methotrexate for 3 months prior to conception
- ❑ Continue maintenance medications throughout pregnancy
 - ❑ Flare associated with adverse outcomes
- ❑ Time Anti-Tnf dose for trough at delivery
- ❑ Continue meds with breast feeding
 - ❑ Exceptions: tofacitinib, methotrexate

PREGNANCY

❑ Mode of delivery:

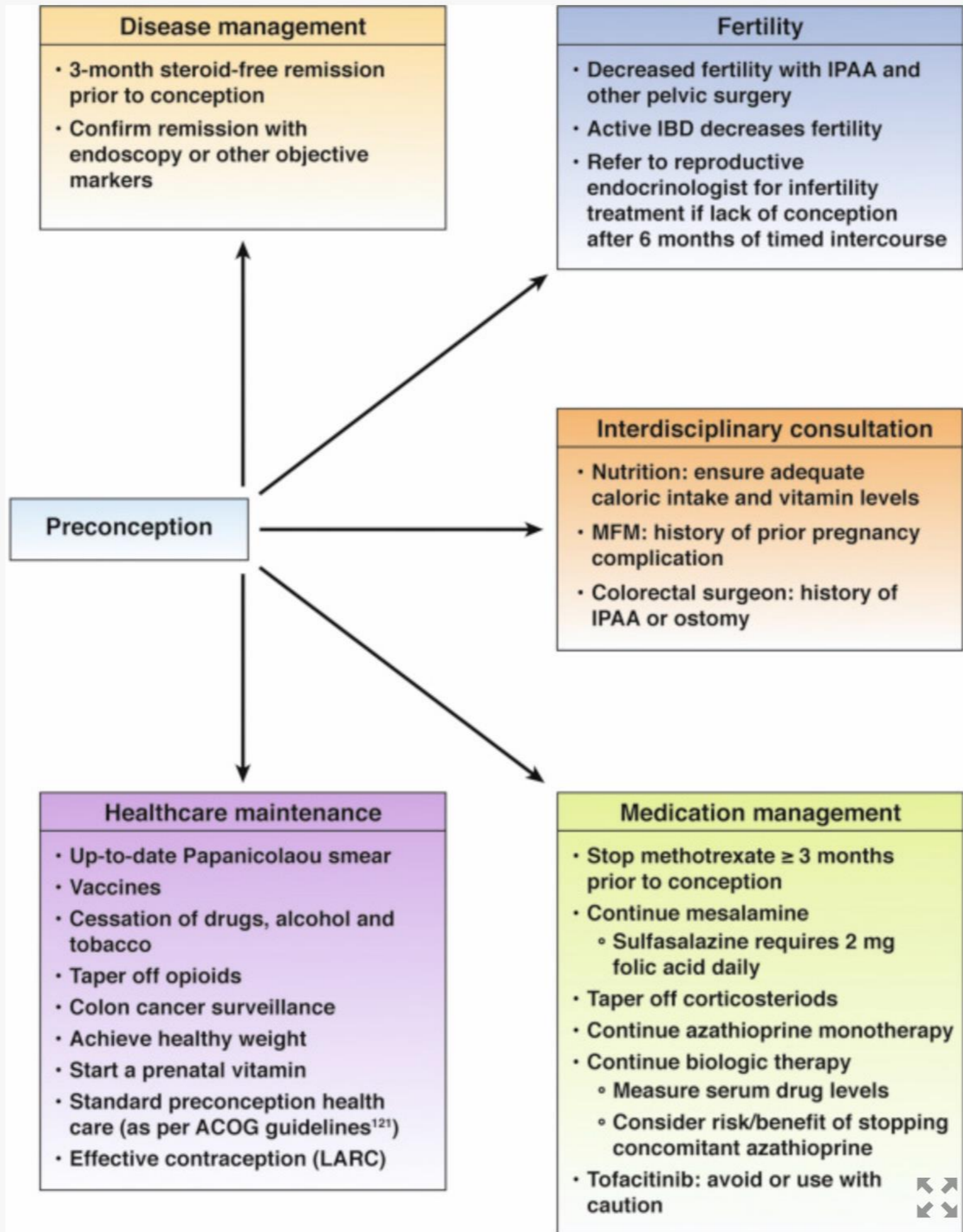
❑ discretion of OB

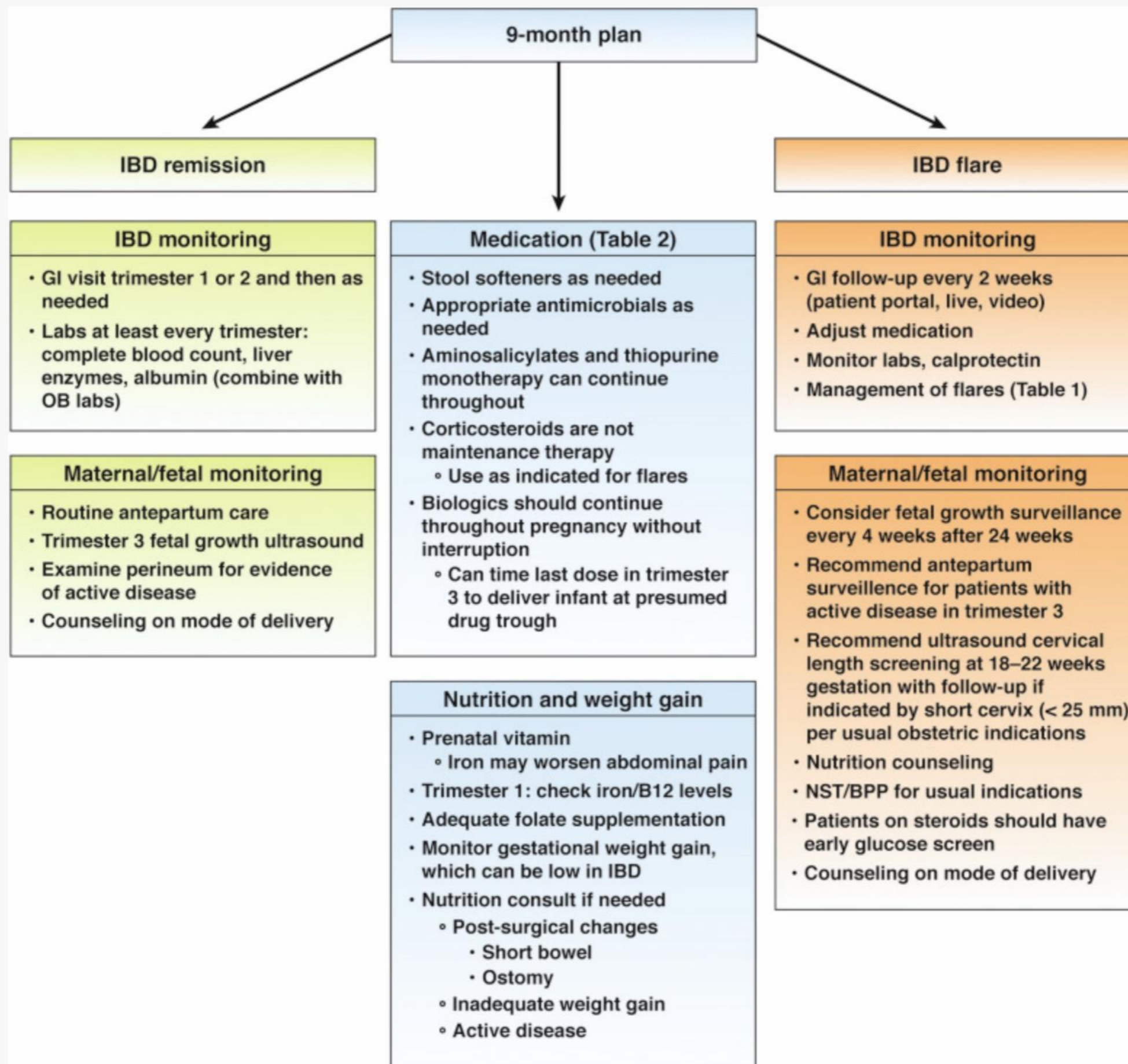
❑ Active perianal dz — will need c-section

❑ Vaccines:

❑ All given on schedule

❑ Exception: avoid live vaccines for 6 months with in utero biologic exposure





HEALTH MAINTENANCE

PREVENTATIVE CARE

- ❑ Administer routine vaccines when indicated
- ❑ Influenza vaccine — all patients with IBD
- ❑ Pneumococcal — adult with IBD on immune suppressants
 - ❑ Booster 5 years later
- ❑ Zoster — adults with IBD >50 y/o
 - ❑ Before starting anti-TNF

PREVENTATIVE CARE

❑ Women with IBD on immunosuppressants:

❑ annual cervical cancer screening

❑ Skin:

❑ Annual Derm exam — Melanoma, NMSC (immune suppressed)

PREVENTATIVE CARE

☐ Bone health:

☐ BMD testing:

☐ Steroid use >3 months

☐ Past steroid use of 1 year in past 2 years

☐ Maternal hx of osteoporosis

☐ Malnourished/thin

☐ Post menopausal regardless of dz status

PREVENTATIVE CARE

- ☐ All patients:
 - ☐ Screen for anxiety/depression
 - ☐ More common in IBD than general pop
 - ☐ Can impact dz course
 - ☐ Smoking cessation
 - ☐ Associated with development of dz
 - ☐ Disease progression
 - ☐ Poor medical/surgical outcomes

EMERGING THERAPIES

❑ UC:

❑ Ustekinumab — currently approved for CD

❑ Hyperbaric O₂

❑ CD:

❑ JAK inhibitors - Filgotinib, Upadacitinib

❑ Sphingosine 1 phosphate receptor 1 (S1P1) modulators

❑ Inhibits T-cells from leaving lymph nodes

❑ Ozanimod, Etrasimod, Amiselimod

QUESTIONS?