









SAGES Patient forum, 2018 Causes of IBD: why me, why now....

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Disclosures

- Prof. Lindsay has:
 - Served as consultant and an advisory board participant for AbbVie, Actavis (Warner Chilcott), Atlantic Healthcare, Celtrion, Ferring, GSK, Janssen, MSD, Napp, Pfizer, Shire, Takeda and Vifor Pharma
 - Received speaker fees and sponsorship to attend academic meetings from AbbVie, Actavis (Warner Chilcott), Ferring, Janssen, MSD, Shire and Takeda and Tillotts
 - Received investigator led research grants from Hospira, Shire and Takeda

Why are these questions important?

• Dealing with a new diagnosis

– Why is this happening to me?

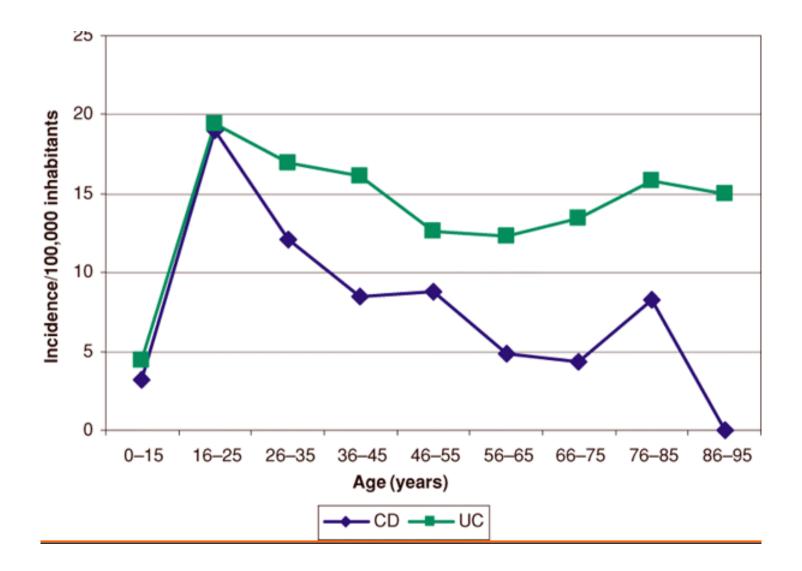
• Deeper understanding of the disease

- I've got IBD, I want to understand IBD

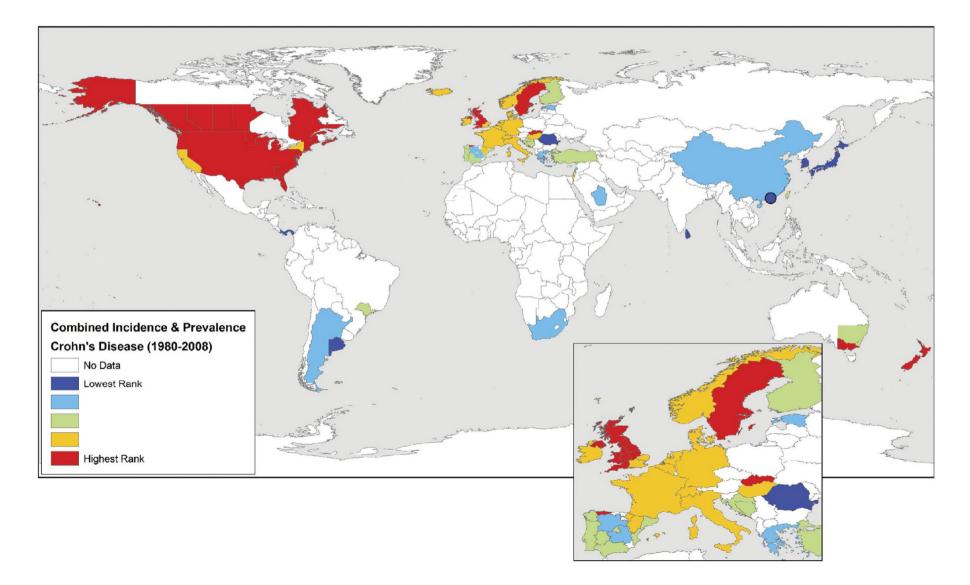
• Unravelling the science of IBD

- Treatment
- Prevention

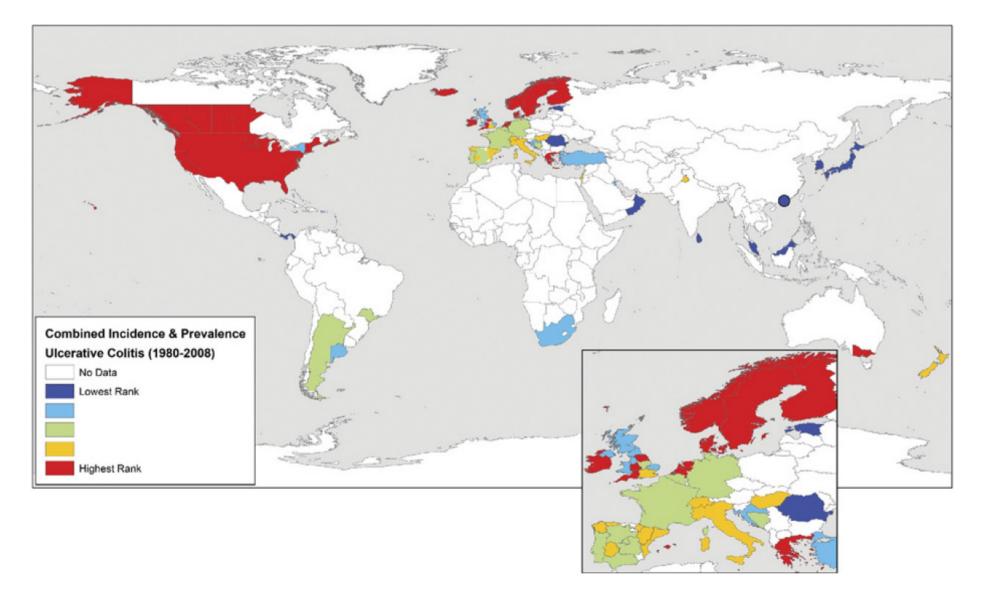
Is it because of my age?



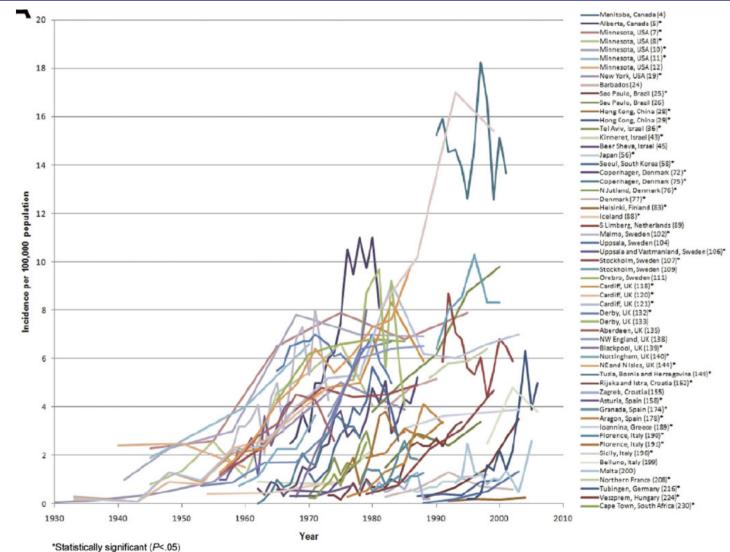
Is it because of where I was born? Crohn's Disease



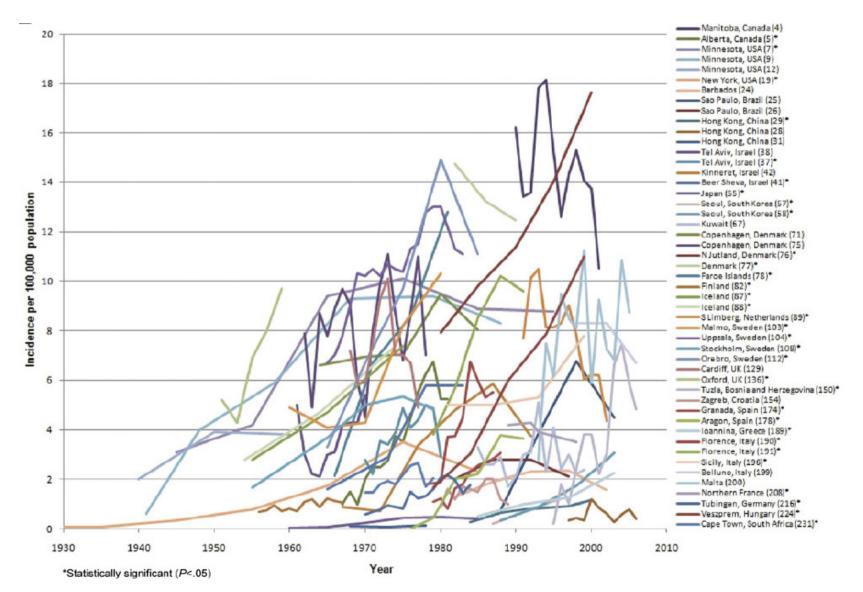
Is it because of where I was born? Ulcerative colitis



Is it because of when I was born? Crohn's Disease

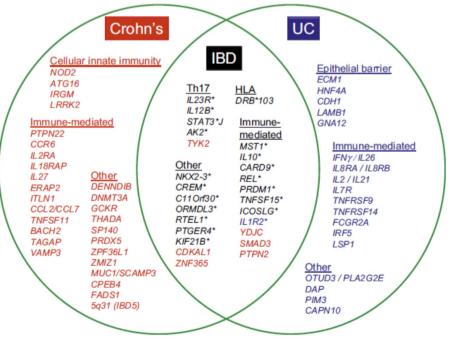


Is it because of when I was born? Ulcerative colitis



Is it down to who my parents are?

- Genes are important
- IBD runs in families
 - ~20% of people with IBD have a family history of IBD
- Genetic research has revealed >100 genes that describe the risk of IBD
- More to discover?



How useful is genetic research in IBD

• On an individual level

- Poor predictive value for risk of disease onset
- New trial to assess value of predicting prognosis
- Unable to predict response to therapies
- Can be used to detect risk of anti-bodies to anti TNF agents

• At a scientific level

- Novel treatments (IL23 pathway)
- Side effects of treatments

Was it something I did?

- Breastfeeding (at least 6 months)
- Exposure to infections
 - Sanitation
 - Vegetable garden
 - Urban > rural
- Previous appendicectomy
 - Protective against UC (as long as it was inflamed!)

Was it something I ate?

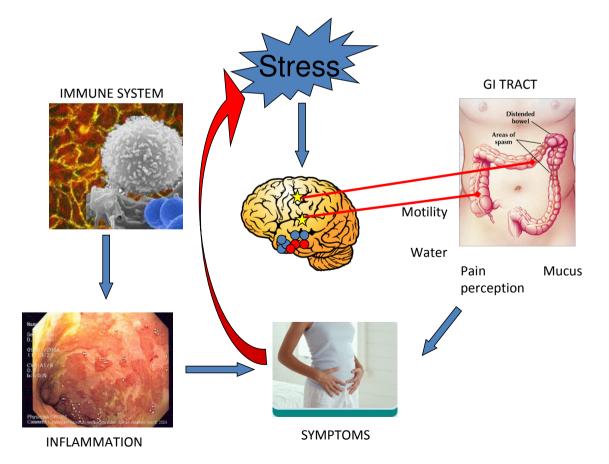


Did I pick up an infection?

- Historic interest in measles and MMR
 - A good example of the dangers of interpreting research badly and of media power
- Mycobacterium avium paratuberculosis
- Infection as a triggering event
- Antibiotics as a triggering event

Was it brought on by stress?

- Patients notice links between flares and stress
- More life events in people with a recent flare
- Very difficult studies to do because of recall bias



Should I have smoked less... or more...?

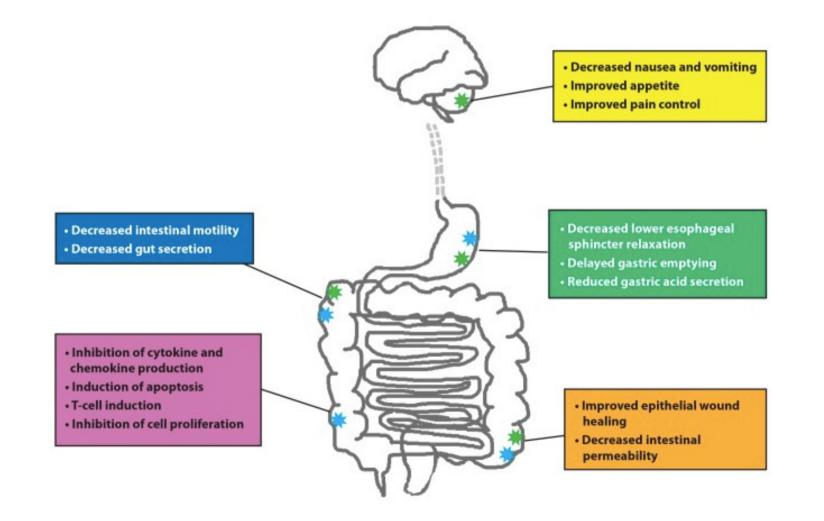
• If you have Crohn's disease

- Increased risk of disease in smokers
- Increased risk in passive smokers
- Increased risk of disease progression / surgery
- Reduced efficiacy of drugs
- Quitting smoking reduces risk

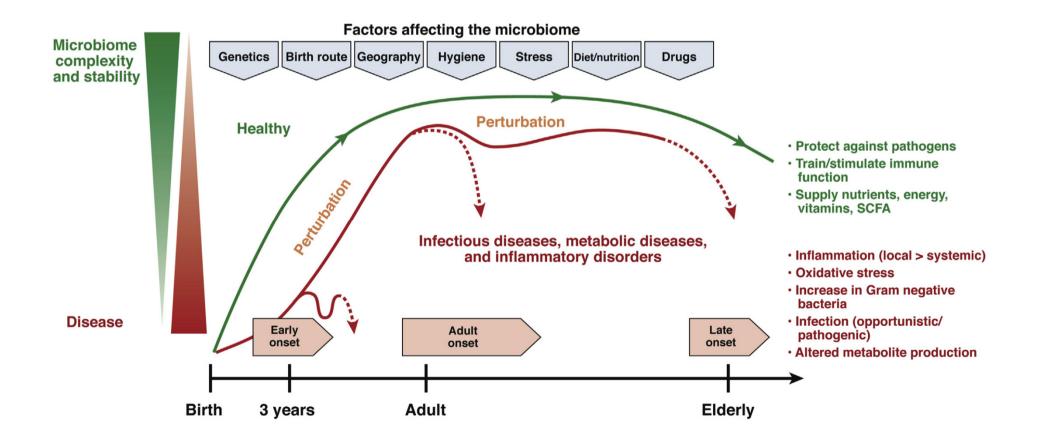
• If you have UC

- Increased risk in ex / non-smokers
- Smoking reduces risk of flare

Should I smoke cannabis?



What is the role of the gut bacteria?



What's important here?

Is there anything I can do about it?

Stress?



"My doctor told me to avoid any unnecessary stress, so I didn't open his bill."

Diet?



Smoking



Bacteria in my gut?



Summary

- Lots of individual factors influence the development of IBD
- Background factors increase the risk
- Triggering factors initiate disease
- We cannot alter some factors
 - Genetics

• Sometimes we can alter them but are not sure how.