

IBD in children and youth Impact of stress

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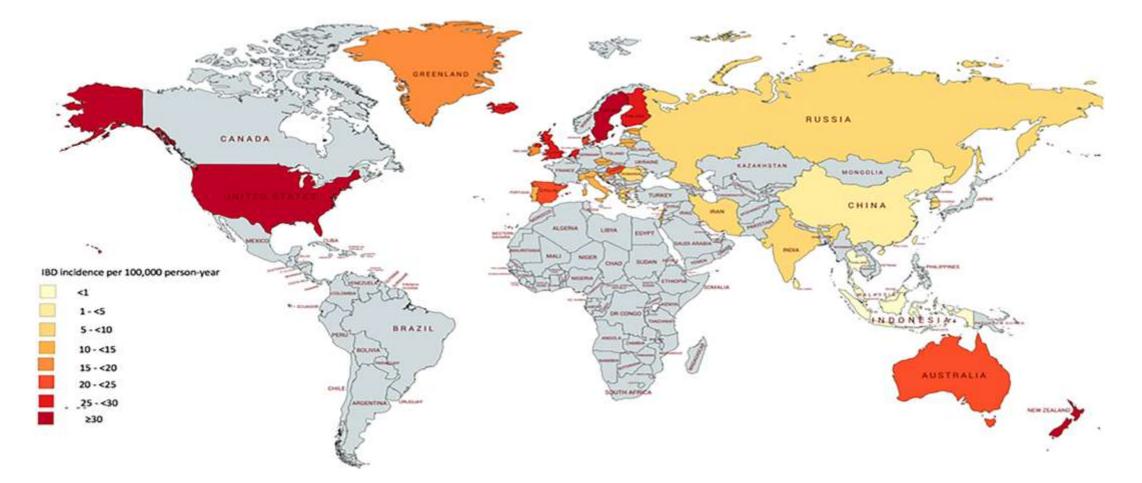
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Outline

- IBD characteristics and incidence
- Goals of therapy
- Stressors
 - patient
 - family
- Impact of stress on IBD
- Targets to reduce stress
- Practical tips

Incidence of IBD



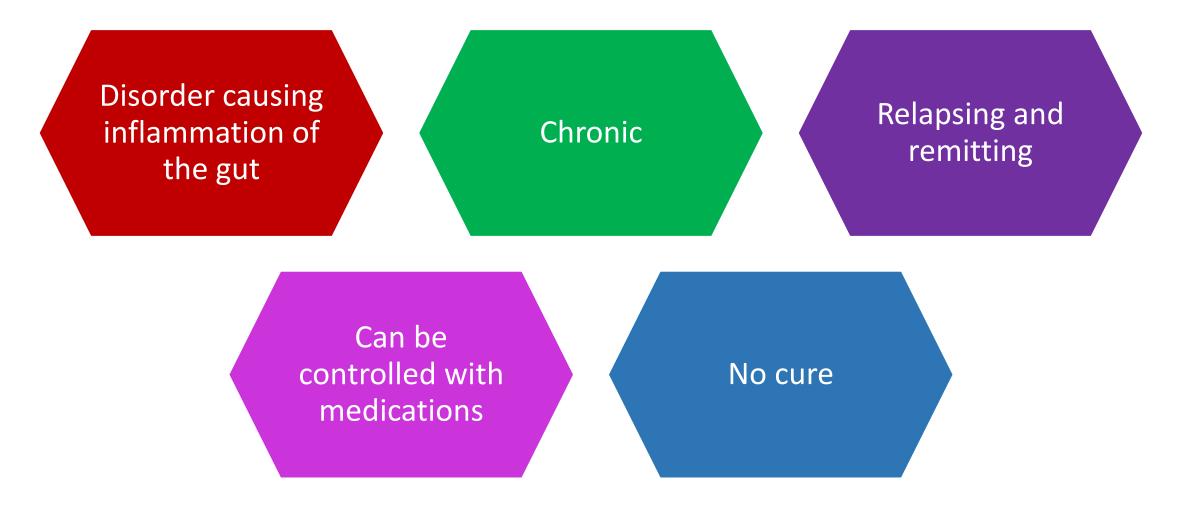
Ref: Mak et al, Journal of Gastroenterology and Hepatology 35 (2020) 380–389

Incidence rates (per 100,000 person/years) of Asian pediatric IBD

Country	reriod	Age range (years)	IBD	CD	UC	IBD-U
Singaporeª,5	1994–2015	≤18	1.26	0.71	0.35	0.10
	1994–1997		0.05	0.03	0.03	0
	1998–2000		0.18	0.07	0.11	0
	2001–2003		0.54	0.36	0.18	0
	2013–2015		4.29	2.10	1.01	0.47
Korea ¹²	2011-2014	10–14		1.6 <u>d</u>	2.0 <u>d</u>	-
		13-13	_	8.2	4.8 ^{<u>d</u>}	
Japan ^c , ^{<u>13</u>}	2004	0–19	_	4.2	11.0	-
	2013		_	6.7	14.6	-
Saudi Arabia ^{<u>14</u>}	2003–2012	<14	0.47	0.27	0.20	_
	2003–2007		0.35	0.19	0.16	-
	2008–2012		0.59	0.35	0.24	-
China (Shanghai) ¹⁵	2000–2010	<18	0.55	0.29	0.25	_
Taiwan ^b , ¹⁶	1990–1999	≤18	_	13.2	_	-
	2000–2009		_	25.4	_	-
Taiwan ¹⁷	2000–2010	0–9	_	0.11	0.05	_
		10–19	_	0.17	0.21	
Taiwan ^{<u>b</u>,^{<u>18</u>}}	1979–1995	<18	_	0.85	0.85	-
	1996–2000			2.60	0.99	

Ref: Huang J et al, Paediatrics and Neonatology (2020)61, 263-271

IBD





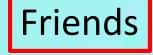


Effect of disease on physical functioning

Emotional challengesfeeling different, loss of normalcy

Behavioral changes - sleep disturbance, feeling lethargic

Medications/side-effects



Activity

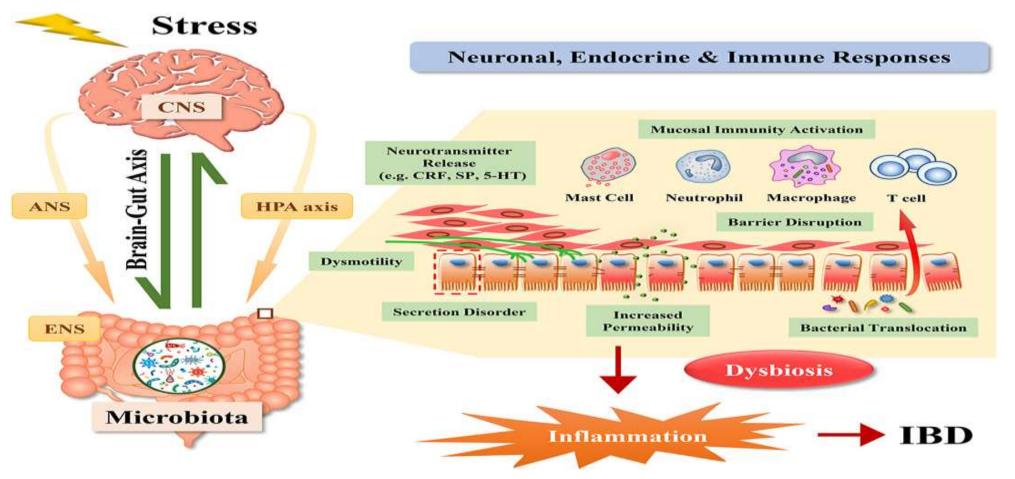


Loss of control/helplessness

Family functioning

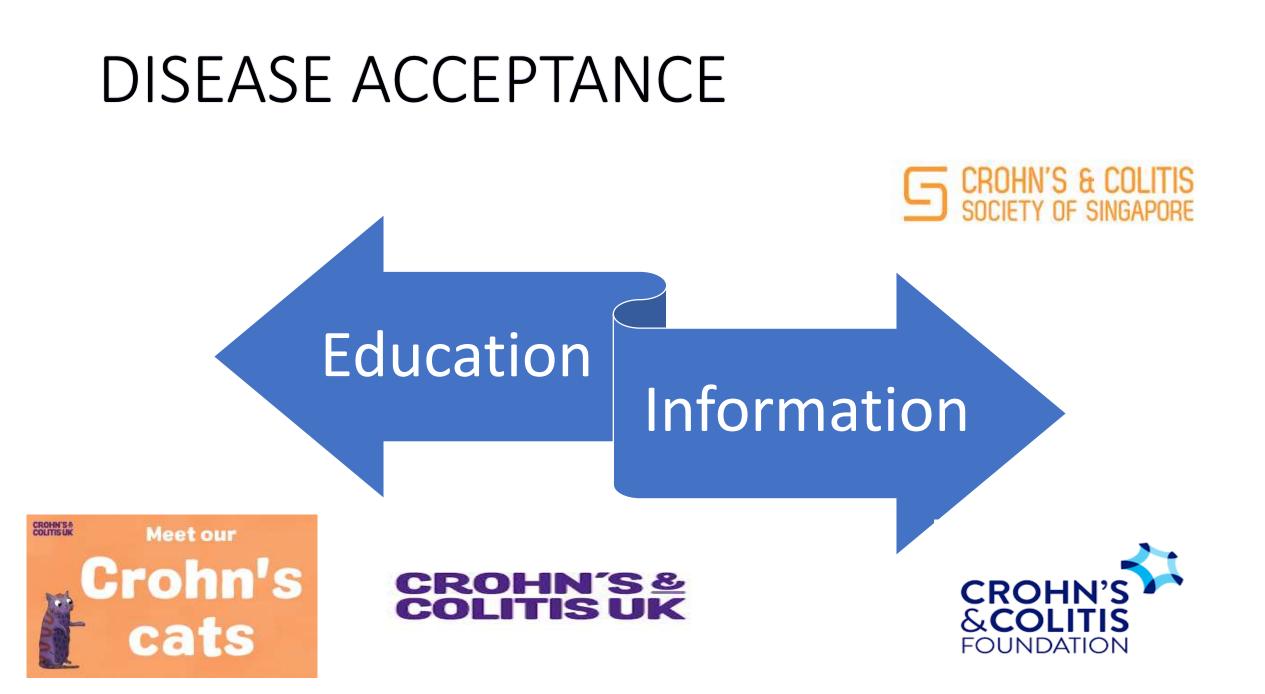
Ref: Gray W et al, J Dev Behav Pediatr. 2013 May ; 34(4): 237–244. doi:10.1097/DBP.0b013e318290568a.

Impact of stress on the gut



Ref: Sun Y et al, Front Pediatr: 2019 Oct;7:432.doi: 10.3389/fped.2019.00432





ADEQUATE SOCIAL SUPPORT

Low social support---increased risk of depression/anxiety

Family/Friends

Buffers against stress

RESILIENCE



The 7 C's of resilience



1. Competence

2. Confidence

3. Connection

4. Character

5. Contribution

6. Coping

7. Control

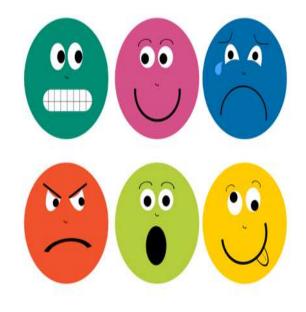


Self-regulation

Executive function



Emotional regulation



Behavioural regulation



Practical approach- coping with illness



Practical approach- routines

- Have positive involvement in activities
- Participate in social groups
- Maintain consistent school attendance as able
- Engage in normal eating habits
- Ensure good sleep hygiene
- Have a predictable daily schedule

Signs of stress/anxiety

- Becoming withdrawn or isolated.
- Avoiding friends and social situations.
- Having trouble sleeping.
- Acting out at school or at home.



Practical approach-emotional well-being





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Conclusion

- Living with IBD has many challenges
- Targets to reduce stress
- Strategies for coping



- Support health care teams, family, friends, support groups
- Aim to live a normal and fulfilling life despite the illness

