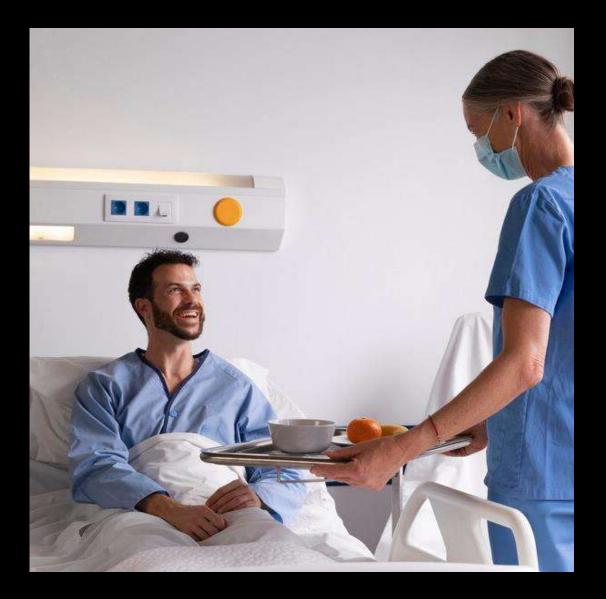
"We are what we think" The role of psychology in gastrointestinal conditions

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What are illness perceptions?

How do patients think about their GI condition? What effects do illness perceptions have on health? What can we do about it?



Illness Perceptions...



... are the core beliefs a patient has about their illness

Illness Perceptions





Illness label and types of symptoms associated

Timeline



Acute, chronic, cyclic

Personal control



Seeing health as under their control

Treatment control



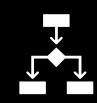
Benefit of medical treatment

Understanding



Does the illness make sense

Consequence



Expected outcome of the illness

Emotional response



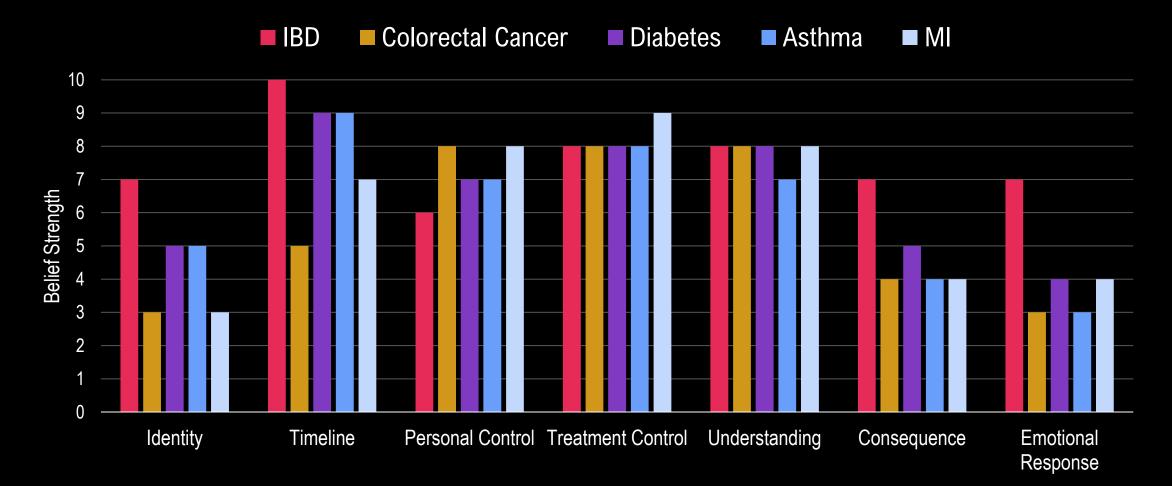
Degree of fear, anger, distress etc.

Cause



Personal ideas about the cause of the illness

Illness Perceptions in GI Conditions



Illness Perceptions

Timeline



"I only take medication when I need to take it. I wouldn't like to be permanently on medication I suppose, only if I had a really good reason to be...I mean I will take it when I am ill."

Personal control



"I have colitis, colitis doesn't have me. So I feel in control, in that I don't let it do anything, it doesn't stop me doing anything I want to do" UC

Treatment control



"I'd rather have this stoma, when I seriously think about it, than being in bed or lingering under further treatments and recurrences."
Colorectal cancer

Emotional response



"It's a very humiliating cancer. I didn't say anything to my husband or my children or family or even my doctor for a long time because I was embarrassed." **Colorectal cancer**

Illness Perceptions & Colonoscopy

for nonspecific gastro symptoms

Patient perception:

- Severe symptoms
- Significant consequences of gastro symptoms on life
- High concern about symptoms
- High emotional response

Lower reassurance following normal results

Illness Perceptions & IBD

Patient perception:

- Low personal control
- Treatment as ineffective
- Serious consequences of illness on life
- High emotional response

- Worse bowel function
- Poorer adjustment to diagnosis
- Increased anxiety & depression
- Lower quality of life
- Lower stoma self-efficacy
- Greater medicine non-adherence

Rochelle, T. L., & Fidler, H. (2013). *Journal of Health Psychology, 18*(7), 972-983. Thong et al., (2016). *Journal of Cancer Survivorship, 10,* 898-905 Dorrian et al., (2009). *Inflammatory Bowel Diseases, 15,* (1), 47–55. Van der Have et al., (2016). *Journal of Crohn's and Colitis,* 10 (5,) 549–555

Illness Perceptions & Colorectal Cancer

Patient perception:

- Negative consequences of concern on life
- Long timeline of illness
- Severe symptoms
- High emotional response
- Greater control over illness
- A better understanding of illness
- Treatment as helpful

Lower quality of lifeHigher risk of mortality

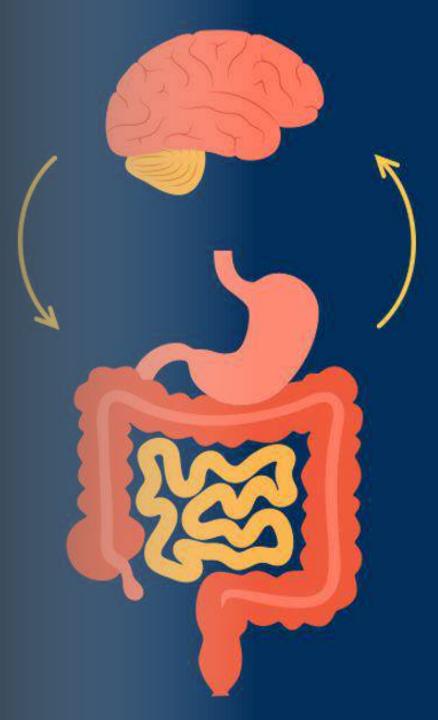
Higher quality of life

Rochelle, T. L., & Fidler, H. (2013). *Journal of Health Psychology, 18*(7), 972 Thong et al., 2016. *Journal of Cancer Survivorship, 10*, 898-905 VanGemert, P. T. (2017).

How? The Direct Route

Gut-Brain Connection

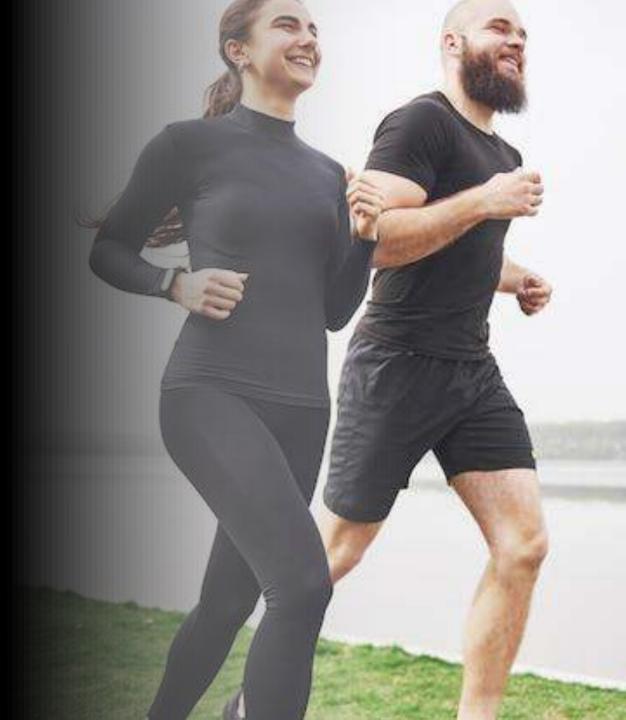
- Activation of the sympathetic nervous system
- Visceral hypersensitivity
- Bodily hypervigilance
- Symptom exacerbation



How? The Indirect Route

Self-Management

- Maladaptive coping strategies e.g. substance use, denial
- Reduced physical activity
- Lower adherence to treatment



Research concludes...

"Identification of specific perceptions may be critical to effective clinical management of Crohn's disease." Knowles et al., 2011

"Illness perceptions could potentially play an important role in planning future treatment of IBD patients." Rochelle & Fidler, 2012

"Illness perception is recommended to be integrated into the routine assessment of chronic GI patients." Wang et al., 2023 camination of the Relations Between Diseas s Perceptions, Coping Strategies, and Morbidity in Crohn's Disease Guided non Sense Model of Illness

linical), PhD,* J.L. Wilson, FRACP,[†] W.R. Connell, MD,[†] and M.A. Kamm, MD, PhD

ndividual's psychological adjustment to illness is influenced by disease severity, illness perceptions, and coping tanding of the contribution of each of these factors to a patient's well-being may influence the kind of psycholo its. This study therefore aimed to characterize the contributors to psychological well-being in patients with Crows a cross-sectional questionnaire-based study.

six CD patients (34 males, 62 females, mean age 38 years) attending a tertiary hospital inflammatory bowel dise. Disease severity was evaluated according to the Crohn's Disease Activity Index (CDAI), coping styles assessed le, illness perceptions explored with the Brief Illness Perceptions Questionnaire (BIPQ), and anxiety and depress unxiety and Depression Scale (HADS).

g the questionnaire data using structural equation modeling resulted in a final model with an excellent fit (χ^2) 19, root mean square error of approximation (RMSEA) < 0.07, comparative fit index (CFI) > 0.97, Goodnes as activity had a significant direct influence on illness perceptions ($\beta = 51, P < 0.001$). In turn, illness percetuence on depression and anxiety ($\beta = 41, P < 0.001, \beta = 0.40, P < 0.001$, respectively). Use of emotional copficantly (P < 0.001) with the presence of anxiety and depression.

e is an interrelationship between disease activity, illness perceptions, coping strategies, and depression and ar gical processing provide a framework and direction for the psychological support that patients with CD require. s 2011;17:2551–2557)

tment, inflammatory bowel disease, common sense model, illness perceptions, coping

disturbance is a common comorbidity in / bowel disease (IBD), with reported prevaligh as 50%.¹ Rates of depression and anxieven when compared to other chronic illwly diagnosed IBD patients even more epression and anxiety than individuals diagorectal cancer.² Further, in comparison to ols (and other illness groups such as irritable ome [IBS] and colon cancer), individuals with

publication November 16, 2010; Accepted December 17, 2010. aculty of Life and Social Sciences, Swinburne University of 'bourne, Australia, 'Department of Gastroenterology, St 'Melbourne, Australia, [‡]Department of Medicine, St Melbourne, Australia, [‡]Imperial College, London, UK. ion Knowles, Swinburne University of Technology, PO Box

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IBD report higher rates of psychiatric distreety,^{2,5–7} and depression.^{6,8,9} Consistent with the individuals with IBD have also been found reduced self-esteem, increased body image co and increased sexual problems.¹² It should be given that Crohn's disease (CD), in contrast to colitis (UC), is associated with pathology throug ple areas of the gastrointestinal tract, it is like multisite pathology leads to increased psycholo bidity and impaired quality of life.

One factor likely to play a key role in me impact of IBD activity on psychological well-be of an individual's coping strategies. Coping re way an individual deals with, or manages, stre strategies can be broadly classified as positiv strategies, or negative, maladaptive strategies.

Interventions developed to improve illness perceptions in:

Crohn's Disease0Ulcerative Colitis0Colorectal Cancer0Irritable Bowel Syndrome1

So what can we do?

Be aware of illness perceptions.

This is an intervention!

What you might hear

- I'm always going to feel sick
- Treatment is not going to help
- Nothing I do works
- My life will never be the same

What you might ask

- What symptoms do you have?
- How long do you think will your illness will last?
- Do you think treatment can help?
- How much control do you feel you have?
- Does your condition affect your life?
- How does your condition make you feel?



Catching when you can...



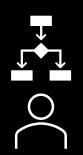
Identity

• Help patient distinguish between symptoms that are normal/everyday vs 'warning signs'.



Timeline and treatment control

- Explain why they should take their medicines consistently.
- Explain the problem of relying on symptoms as a guide for medication effectiveness.



Consequences and personal control

- Helping the patient to have more realistic beliefs about their abilities and activities.
- Developing a recovery plan, goal setting, encouraging self-efficacy.

Summary

- Illness perceptions can be particularly negative in GI conditions.
- Patients' beliefs can influence their symptoms, emotional well-being, quality of life, and even mortality.
- This can be due to the gut-brain connection or self-management behaviours.
- While it is clearly needed, there are currently no psychological interventions to improve illness perceptions in GI conditions.
- Being alert to illness perceptions is an intervention in itself.

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Questions?

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