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CHRONIC ABDOMINAL PAIN PRIMARY CARE PATHWAY

1. Diagnostic criteria

Must have the following for 3 months prior, with symptom onset \geq 6 months ago:

- · Continuous or near continuous abdominal pain
- · No, or only occasional relationship of, pain with physiological events
- · Pain limits some aspect of daily functioning
- · Pain is not feigned
- · Pain is not explained by another structural or functional GI disorder or medical condition

2. Symptoms better explained by another GI disorder? Is it GERD? Is it dyspepsia? Is it IBS? Predominant heartburn or regurgitation Epigastric discomfort / pain or bloating Pain related to defecation or change in stool form / frequency YES YES Follow GERD Follow Dyspepsia Follow IBS Pathway **Pathway** Pathwav Click here for pathway Click here for pathway Click here for pathway NO 3. Alarm features? · Family history (first degree relative) of IBD or colorectal cancer 7. Refer to YES Onset of symptoms after age 50 Gastroenterology Unintended weight loss (> 5% over 6-12 months) Persistent vomiting Click here for Referral · GI bleeding <u>letter</u> · Iron deficiency anemia NO 4. Optimize management of alternate diagnosis or secondary causes Consider referred pain from other systems · Review medications and discontinue or reduce dose of culprit medications Identify and eliminate dietary triggers and allergens 5. Baseline investigations Initial work up CBC, electrolytes (Na, K, Cl, Ca, Mg, P), creatine Celiac disease screen (anti-TTG and IgA) ABNORMAL Liver enzymes (ALT, ALP), albumin, bilirubin, lipase **RESULTS** CRP - if suspecting inflammatory or infectious conditions Treat or refer for Stool tests for C. Difficile, ova and parasites, culture and consultation sensitivity Click here for Referral letter Ferritin and transferrin saturation Consider based on clinical context Thyroid test (TSH) H. pylori stool antigen test Urinalysis Pregnancy test (β-hCG) Abdominopelvic ultrasound NO CAUSE IDENTIFIED

6. Management

- · Patient reassurance: reassessment and reappraisal to establish therapeutic relationship
- Lifestyle modifications: stress reduction may include physical activity, mindfulness, meditation, hypnotherapy, and acupuncture
- Dietary modifications: assess common food triggers and keep a food journal. Consider referral to a Registered Dietitian.
- Psychological therapy: refer to behavioural health specialist. If psychiatric symptoms predominate, consider psychiatry.
- Pharmacological therapy: for moderate to severe CAPS symptoms only (antispasmodics, TCAs, SNRIs, or SSRIs)

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Chronic Abdominal Pain - What is it?

- Chronic abdominal pain is a challenging complaint for primary care and specialist physicians. The multitude of patients presenting with this problem reflects the many causes and non-specific nature of abdominal pain.
- In the absence of alarm features, the majority of patients with chronic abdominal pain will have a benign cause.
- Centrally Mediated Abdominal Pain Syndrome (CAPS): Formerly known as functional abdominal pain syndrome, this chronic condition is characterized by continuous or near-continuous, often severe abdominal pain, not due to an organic cause, and rarely associated with disturbances in gastrointestinal (GI) function.
 - CAPS is distinguished from other functional GI disorders, such as irritable bowel syndrome (IBS) and functional dyspepsia, by the predominance of pain as the central complaint and the lack of a consistent relationship of pain with food intake or defecation. It may be associated with other somatic disorders such as fibromyalgia and chronic fatigue syndrome.
 - CAPS is less common than other functional GI disorders, affecting approximately 0.5-2.1% of the general population. It is 1.5-2 times more common in women than in men. 2 Prevalence reaches a peak at age 40 and decreases with age.
 - Many patients with CAPS will seek consultation with different specialists, have repeated imaging or endoscopic procedures, and undergo invasive surgeries (most often being hysterectomy and exploratory laparotomy) without benefit.
 - CAPS can significantly impact quality of life.

CHECKLIST TO GUIDE IN-CLINIC REVIEW OF YOUR PATIENT WITH CHRONIC ABDOMINAL PAIN

CAPS diagnostic criteria (Rome IV) must have the following for 3 months prior, with symptom onset ≥ 6 months ago:

• Continuous or near continuous abdominal pain

• No, or only occasional relationship of, pain with physiological events (e.g. eating, defecation, or menses)

• Pain limits some aspect of daily functioning (e.g. work, intimacy, social/leisure, family life, and care giving for self or others)

• Pain is not feigned

• Pain is not explained by another structural or functional Gl disorder or other medical condition

Ensure symptoms are not better explained by another Gl disorder

Confirm absence of alarm features. If alarm features are identified, refer for specialist consultation

Exclude alternate diagnoses and/or secondary causes

Evaluate for underlying organic causes with baseline investigations. If other causes identified, treat or refer for specialist consultation.

If unsatisfactory response to management (see algorithm Box 6), consider using an advice service before referring. Otherwise, continue care in the Patient Medical Home

Expanded Details of Chronic Abdominal Pain Clinical Pathway

1. Diagnostic criteria

- CAPS diagnostic criteria (Rome IV) must have the following for 3 months prior, with symptom onset ≥ 6 months ago:
 - Continuous or near continuous abdominal pain
 - No, or only occasional relationship of, pain with physiological events (e.g. eating, defecation, or menses) o Pain limits some aspect of daily functioning (e.g. work, intimacy, social/leisure, family life, and care giving for self or others)
 - Pain is not feigned
 - Pain is not explained by another structural or functional GI disorder or other medical condition.
 - The biologic etiology of CAPS is thought to be similar to that of other chronic visceral pain disorders, including IBS, functional dyspepsia, and interstitial cystitis. An abnormality in central pain processing signals and modulation of pain regulatory pathways in the brainstem results in an exaggerated sensitivity to both noxious and innocuous stimuli.
 - Predisposing factors are likely to include a combination of genetic, environmental, and behavioural traits. Alterations in serotonin reuptake, disruption of mucosal barrier function, and changes in the balance of pro- and anti-inflammatory cytokines have been implicated in the development of functional GI disorders.
 - Psychological factors, such as the presence of psychosocial stressors, underlying depression, anxiety, somatic disorders, history of trauma, eating disorders, and poor coping skills can all trigger or amplify the pain experience.
 - Initial work-up should consist of a detailed history and physical examination, thorough medication review, and, in the absence of alarm features, a conservative approach to exclude other medical conditions.
 - History should include assessment of pain duration and quality, and a review of any patterns in presentation or associated symptoms.
 - Assessment should include screening for underlying sleep or mood disorders. Patients with mental health issues, such as depression and anxiety, often have refractory symptoms until those issues are addressed.
 - A significant percentage of patients with chronic abdominal pain or other functional GI disorders have a history of trauma (e.g. sexual assault or physical and psychological abuse) or PTSD. This type of trauma may contribute to symptoms through the brain-gut axis, so it is important to explore this in a compassionate manner. Undergoing endoscopy may trigger a negative response in survivors of trauma; addressing this possibility may be appropriate if considering a referral for endoscopy when the clinician is aware of a history of trauma. For additional information, see Abuse, Trauma, and GI Illness: Is There a Link? and Trauma-informed care.
 - It is important to recognize states of immunosuppression. Whether comorbid or drug related, immunosuppression may mask other important clinical signs of significant pathology (e.g. poorly controlled diabetes, cirrhosis, chronic kidney disease, human immunodeficiency virus (HIV), and use of immunosuppressive agents, such as glucocorticoids, chemotherapy, and some biologics).
 - A physical exam, including a complete abdominal assessment, should be performed to clarify pain location and radiation, rule out significant pathology, and legitimize symptoms.
 - If abdominal pain is suspected to be abdominal wall in origin (MSK), the Carnet's test may be useful. Raise the head or the feet to contract the musculature of the abdominal wall, and the pain stays the same or is worse is suggestive. Pain improvement or resolution with abdominal wall injections with lidocaine confirms the diagnosis.

2. Symptoms better explained by another GI disorder?

• There is significant overlap of CAPS and other functional GI disorders, such as functional dyspepsia, IBS, gastroesophageal reflux disease (GERD).

- Typically, CAPS is distinguished by the absence of, or only occasional relationship with, pain associated with other physiologic events, such as eating or defecation. A careful history is essential to determine if symptoms are more consistent with one of these other disorders:
- Does the patient suffer from associated heartburn or regurgitation that suggests GERD? See GERD pathway.
- Is the pain related to defecation or associated with change in stool form/frequency that is more consistent with IBS? See IBS pathway.
- Is there post-prandial epigastric discomfort, upper abdominal pain, and/or bloating that is more typical of dyspepsia? See dyspepsia pathway.

3. Alarm features

- If any of the following alarm features are identified, refer for consultation/endoscopy. Include any and all identified alarm features in the referral to ensure appropriate triage.
 - Family history (first-degree relative) of inflammatory bowel disease (IBD) or colorectal cancer
 - Onset of symptoms after age 50
 - Unintended weight loss (> 5% over 6-12 months)
 - Persistent vomiting
 - GI bleeding
 - Iron deficiency anemia

4. Optimize management of alternate diagnosis and/or secondary causes

- Many disorders can produce chronic abdominal pain (Table 1), so it is important for the clinician to consider a broad diagnostic differential before concluding on a functional disorder.
- A careful review of medications should be performed to identify ones that may be causing GI side effects. Discontinue use or reduce dose of culprit medications.
 - A multitude of over-the-counter and prescription medications can cause GI upset (e.g. iron, potassium, and calcium supplements, antidiarrheals, laxatives, antibiotics, statins, metformin, and bisphosphonates). If coincident timing of initiation or dose escalation is suspicious, the drug monograph should be consulted.
 - Non-steroidal anti-inflammatory drugs (NSAIDs), tobacco, and alcohol may cause injury to GI mucosa.
 - Narcotics can alter gut motility and paradoxically worsen pain (narcotic bowel syndrome).
 - Long-term habitual cannabis usage can sometimes lead to cannabinoid induced gut dysfunction and colicky abdominal pain. It is often associated with nausea and vomiting, which may be relieved by hot showers. Treatment includes gradual dose reduction, followed by discontinuation of cannabis.
- Dietary history is also key in identifying triggers and allergens. These will not cause chronic abdominal pain, but may cause bloating and gas that can exacerbate abdominal pain.
 - Ingestion of large amounts of carbonated beverages and fruit juices (which may contain significant quantities of fructose and sugar alcohol), or gas-producing foods (e.g. beans, onions, cabbage, and cauliflower).
 - Other dietary culprits include gluten (found in wheat, barley, oats, rye, and triticale; is associated with gluten intolerance or celiac disease), lactose (milk and ice cream; is associated with lactose intolerance), and other high FODMAPS foods (associated with IBS).
 - Dietary allergens/sensitivities such as milk protein, wheat (gluten), soy, eggs, fish, shellfish, peanuts, and tree nuts are rarely causes of isolated chronic abdominal pain, in the absence of other signs or symptoms. True allergies, like milk protein allergies, are extremely rare. Most food related symptoms are not true allergies.

MAJOR DIFFERENTIAL DIAGNOSIS TO CONSIDER				
System	Di	ifferential diagnosis		
Gastric	GERDNSAID-related gastritisHelicobacter pylori gastritisGastric malignancy	Peptic ulcer diseaseAlcohol induced gastritisGastroparesis, impaired emptying, accommodationParasitic infection		
Small bowel	 Peptic (duodenal) ulcer disease Small intestinal bacterial overgrowth (SIBO) Chronic mesenteric ischemia Small bowel malignancy 	Celiac diseaseIBDIncomplete obstructionParasitic infection		
Colon	IBDRecurrent ischemic colitisChronic constipationParasitic infection	Recurrent episodes of diverticulitisIncomplete obstruction and pseudo-obstructionColon malignancy		
Hepatic-pancreatic biliary	 Biliary colic, sphincter of Oddi dysfunction Liver abscess Pancreatic or biliary tree malignancy 	HepatitisChronic pancreatitis		
Functional GI	CAPSIBSGERD	Functional dyspepsiaAbdominal migraine		
Non-GI	 Cardiac - angina Endocrine - adrenal insufficiency, hypothyroid, hypercalcemia Gynecologic - pregnancy complications, pelvic inflammatory disease, endometriosis, fibroids, ovarian malignancy Hematologic - porphyria, sickle cell, angioedema, familiar Mediterranean fever Musculoskeletal - bony pain, muscular strain or spasm, abdominal wall pain, costochondritis Dermatologic - post herpetic neuralgia Psychological - somatic disorders, anxiety, depression, post-traumatic stress disorder (PTSD), eating disorders Spleen - splenomegaly Urogenital - kidney stones, urinary retention Vascular - abdominal aortic aneurysm 			
Medications / supplements	 Cannabinoid hyperemesis syndrome Narcotic bowel syndrome NSAID-related gastropathy, enteropathy, colopathy Bisphosphonates Immunosuppression medications 	 Iron, potassium, calcium supplements Antidiarrheals Laxatives Antibiotics Statins, metformin 		
Allergens / sensitivities	Food antigen	Environmental exposure		

5. Baseline investigations

- The appropriateness of a limited diagnostic workup and avoidance of unnecessary (repeated) endoscopic procedures is supported by a low miss rate for significant GI pathology9 and a failure of a negative endoscopy to provide reassurance or improve health-related quality of life.
- Assessment of historical investigations should be completed to rule out other medical disorders (e.g. colonoscopy, gastroscopy, ultrasound, abdominopelvic computerized tomography (CT)).
 - **Note:** It may be reasonable that these investigations are at least done once depending on the clinical presentation.

- Patients with functional diarrhea often benefit from lifestyle and dietary modifications. These simple modifications may be all that is required in those with mild or intermittent symptoms where quality of life is not significantly impacted. Connecting patients with resources for diet, exercise, stress reduction, and psychological counseling, where available, can be helpful. Initial assessment should include screening for underlying sleep and/or mood disorders. Patients with mental health issues such as depression and anxiety may have refractory symptoms unless mental health issues are addressed.
- Initial investigations include:
 - CBC
 - Celiac disease screen
 - Electrolytes sodium, potassium, chloride, calcium, magnesium, phosphate
 - Creatinine
 - Liver enzymes (alanine aminotransferase (ALT), alkaline phosphatase (ALP)), albumin, bilirubin, lipase
 - C-reactive protein (CRP) if suspecting inflammatory or infectious conditions
 - C. difficile or ova and parasites if there has been recent travel
 - Ferritin and transferrin saturation if GI bleeding or iron deficiency anemia is suspected (see Iron Primer).
- Based on clinical context, additional investigations may be warranted:
 - Thyroid testing (TSH)
 - H. Pylori testing with the H.pylori Stool Antigen Test (HpSAT) or the Urea Breath Test (UBT).
 - Urinalysis
 - Pregnancy test (β-hCG)
 - **Note:** The fecal immunochemical test (FIT) is for colorectal cancer screening. It has NOT been validated for investigation of GI symptoms. Ordering FIT in this circumstance is inappropriate. GI malignancies are very uncommon in those meeting usual criteria for functional GI disorders.
- Abdominopelvic ultrasound is commonly performed and helps to rule out common pathology.
 - If clinical suspicion remains elevated despite other normal tests, limited cross-sectional imaging (e.g. abdominopelvic CT scan) may be considered, if not ordered within the timeframe of symptom onset/change in symptom pattern.

TREATMENT OPTIONS (NON-PHARMACOLOGICAL)

6. Management

These modifications may be all that is required in those with mild or intermittent symptoms			
Patient reassurance	 A key to effective long-term management of chronic abdominal pain is to provide patients reassurance after their initial diagnosis and offer points of reassessment and reappraisal to establish a therapeutic relationship. This will allow the patient to report changes in symptom frequency, severity, and development of alarm features. Changes in the character of the pain, basic investigations, or physical exam should warrant reconsideration of attribution of the abdomen pain to CAPS. Emphasize managing symptoms rather than completely resolving them. 		

Lifestyle modifications

- Stress reduction: Regular physical activity, mindfulness (thebreathproject.org), meditation, hypnotherapy, and acupuncture is foundational.
- Additional therapies are based on symptom severity and degree of disability.
 - Note: Stress can contribute to functional GI disorder symptoms, but does NOT cause them.
- Physical Activity: 20+ minutes of physical activity/day, aiming for 150 min/week is known to be an effective strategy for stress reduction.
 - See the Canadian 24-Hour Movement Guidelines

Assess common food triggers: Follow a systematic approach of removing each trigger for 1-2 weeks and assessing symptoms before permanent elimination is recommended. • Consider avoidance of: Gas producing foods (beans, lentils, onions, cabbage, and cauliflower) Large amounts of sugar (fructose) or sugar alcohols (sorbitol) from carbonated beverages or fruit juices (regular or sugar-free) Dietary modifications Caffeine Lactose, if lactose intolerant • Food allergens, if clear symptom correlation (milk protein, wheat (gluten), soy, eggs, fish, shellfish, peanuts, and tree nuts) It may be helpful for patients to use the Food, Lifestyle, and Symptom Diary to understand their symptoms, food triggers, and stressors. Use the diary to determine how dietary modifications, psychological, and pharmacological therapies impact their symptoms.

Psychological therapy

 Referral to a behavioural health specialist can be helpful in managing pain and reducing emotional distress associated with symptoms. If psychiatric symptoms predominate, consider psychiatry referral.

TREATMENT OPTIONS (PHARMACOLOGICAL)

Referral to a Registered Dietitian can be helpful to support dietary changes.

The use of pharmaceuticals is generally reserved for those who have not adequately responded to dietary and lifestyle interventions, or in those with moderate or severe symptoms that impair quality of life.

Assess dietary intake compared to Canada's Food Guide.

- Clinical trials specific for CAPS are limited, so treatment recommendations for patients with CAPS often relies on observations from IBS.
- Centrally acting pharmacologic agents, such as tricyclic antidepressants (TCAs) or serotonin norepinephrine reuptake inhibitors (SNRIs), can be used alone or in combination for their pain modulating effects. TCAs and SNRIs are thought to be more effective than selective serotonin reuptake inhibitors (SSRIs) due to their

additional noradrenergic effects.	 Evidence: May reduce symptoms of abdominal pain, however, it is not clear if one agent is more effective than another. Place in therapy: May provide symptom relief. Consider peppermint oil as first line as it is generally well tolerated and appears to be effective. Mechanism of action: Smooth muscle relaxation by various mechanisms. Adverse effects: Anticholinergic reactions with some agents (CNS depression, xerostomia), dyspepsia (peppermint oil). Dose: A reasonable trial is 1-2 agents (not at once) given for 4 weeks as listed below. Could use
	regularly or PRN. Recommended Medications: • Enteric coated peppermint oil capsules (0.2-0.275 mL caps). 2 capsules BID. • Trimebutine(Modulon®)-100-200mgTI. • PinaveriumBromide(Dicetel®)-50-100mgTID. • HyoscineButylbromide(Buscopan®)-10mgTID-QID. • Dicyclominehydrochloride(Bentylol®)-20mgTID-QID.
	 Evidence: The most studied antidepressant class for treatment of abdominal pain. Place in therapy: May be particularly useful for patients with CAPS, as well as sleep issues.

Tricyclic antidepressants (TCA)

- **Place in therapy:** May be particularly useful for patients with CAPS, as well as sleep issues, anxiety, or depression.
- Mechanism of action: Suggested to be beyond serotonin and norepinephrine, and as a result of blocking voltage-gated ion channels, opioid receptor activation and potential neuroimmunologic anti- inflammatory effects.
- Adverse effects: Anticholinergic and antihistaminic (drowsiness/insomnia, xerostomia, palpitations, weight gain, constipation, urinary retention).
 - Use with caution in patients at risk of prolonged QT.
 - It can take 2-3 months to reach maximum effect.
 - The lowest effective dose should be used. Reassess therapy after 6-12 months.
 - Dose should be gradually reduced if discontinuing.

Tricyclic antidepressants (TCA) continued	 Recommended medications Nortriptyline -10-25mg qhs. Increase dose by 10-25mg every 3-4weeks (due to delayed onset). May require 25-75 mg/day. Often takes 2-3 months for peak effect. Amitriptyline -10-25mg qhs. Increase dose by 10-25mg every 3-4weeks (due to delayed onset). May require 25-75 mg/day. Often takes 2-3 months for peak effect. Desipramine -25mg qhs, increase based on response and tolerability. Doses up to 150mg daily have been evaluated for IBS.
Serotonin norepinephrine reuptake inhibitors (SNRIs)	 Evidence: Duloxetine is marketed for chronic pain, neuropathic pain, and fibromyalgia. Venlafaxine may alter Gl compliance, tone and reduce colonic contraction. There are no high quality studies to guide SNRI therapy recommendations for CAP at this time. Mechanism of action: Proposed to modulate pain sensation by blocking presynaptic serotonin and norepinephrine transporters. This mechanism along with the advantageous adverse effect profile (compared to TCAs) make this class ideal in theory. Place in therapy: For patients in which TCAs are contraindicated or not tolerated, SNRIs may provide benefit, especially in the setting of concurrent chronic pain, diabetic neuropathic pain, or fibromyalgia. Adverse effects: Nausea, agitation, dizziness, sleep disturbance, fatigue, and liver dysfunction. It can take 2-3 months to reach maximum effect. Lowest effective dose should be used. Reassess therapy in 6-12 months. Dose should be gradually reduced if discontinuing. Recommended medications Venlafaxine(Effexor®) - 37.5mg daily. May dose escalate by 37.5mg/week to max 225mg Duloxetine(Cymbalta®) - 30-60mg daily. May dose escalate by 30mg/week to max 60mg BID
Selectie serotonin reuktake inhibitors (SSRIs)	 Evidence: Limited data to support use of SSRIs for abdominal pain. Place in therapy: Include patients with concurrent depression or anxiety-specific GI symptoms. Adverse effects: Nausea, diarrhea, weight gain, sexual dysfunction, tremor, insomnia. Caution with citalopram in patients with prolonged QT. Lowest effective dose should be used. It can take 2-3 months to reach maximum effect. Reassess therapy in 6-12 months. Dose should be gradually reduced if discontinuing. Recommended medications Fluoxetine (Prozac®) - 10 mg daily. May dose escalate up to 60 mg daily. Citalopram (Celexa®) - 10-20 mg daily. May dose escalate up to 40 mg daily.

7. When to refer for consultation and/or endoscopy

- If alarm features are identified
- If investigations reveal iron deficiency anemia, a positive celiac disease screen, high clinical suspicion of IBD, or cancer of the GI tract.
- If recommended strategies have not led to satisfactory treatment or management of symptoms.
- Provide as much information as possible on the referral form, including identified alarm feature(s), important findings, and treatment/management strategies trialed with the patient.

Still concerned about your patient?

The primary care physician is typically the provider who is most familiar with their patient's overall health and knows how they tend to present. Changes in normal patterns, or onset of new or worrisome symptoms, may raise suspicion for a potentially serious diagnosis, even when investigations are normal and typical alarm features are not present.

There is evidence to support the importance of the family physician's intuition or "gut feeling" about patient symptoms, especially when the family physician is worried about a sinister cause such as cancer. A metaanalysis examining the predictive value of gut feelings showed that the odds of a patient being diagnosed with cancer, if a GP recorded a gut feeling, were 4.24 times higher than when no gut feeling was recorded.

More Information on Iron Levels

Iron

Evaluation of measures of iron storage can be challenging. Gastrointestinal (occult) blood loss is a common cause of iron deficiency and should be considered as a cause when iron deficiency anemia is present. Menstrual losses should be considered.

There are two serological tests to best evaluate iron stores (ferritin, transferrin saturation) - neither of which are perfect.

The first step is to evaluate **ferritin**:

- If their ferritin is low, it is diagnostic of iron deficiency with high specificity (98%)
- Ferritin is an acute phase reactant which may be elevated in the context of acute inflammation and infection. If ferritin is normal or increased, and you suspect it may be acting as an acute phase reactant, order a transferrin saturation test (see below)
 - However, if the ferrite is less than 100ug/L and there is no concurrent significant chronic renal insufficient, iron deficiency is very unlikely even in the contact of acute inflammation/infection

The second step is to evaluate **transferritin saturation**:

- The transferrin saturation is a calculated ratio using serum iron and total iron binding capacity. Serum iron alone does **not** reflect iron stores.
- Low values (less than 10%) demonstrate low iron stores in conjunction with a ferritin less than 100ug/L In the absence of abnormal iron indices, anemia may be from other causes other than GI (occult) blood loss (bone marrow sources, thalassemia, and sickle cell anemia)

Additional Information About this Pathway

About this pathway

This primary care pathway was created using resources from Alberta Health Services and Alberta Primary Care Networks and further adapted by gastroenterologists at Kelowna Gastroenterology Associates from Kelowna, British Columbia. Wide adoption of primary care pathways can facilitate timely, evidence-based support to physicians and their teams who care for patients with common low-risk GI conditions and improve appropriate access to specialty care when needed.

- Digestive health primary care pathways were originally developed in 2015 as part of the Calgary Zone's Specialist LINK initiative. They were co-developed by the Department of GI and the Calgary Zone's speciality integration group, which includes medical leadership and staff from Calgary and area Primary Care Networks, the Department of Family Medicine and Alberta Health Services.
- This pathway has been reviewed by the Kelowna Gastroenterology Associates and its physicians for content and use.

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Patient Information Sheet for Managing Chronic Abdominal Pain

1. What is Chronic Abdominal Pain?

- Belly pain that is troublesome, is present every day (or almost every day) for months, and is not explained by other medical conditions.
- The cause of chronic abdominal pain can be challenging to determine and treat.
- Treatments focusing on improving your symptoms are usually all that is needed.
- It can affect your every day activities and have a negative impact on quality of life.
- Usually cared for by healthcare providers in your family doctor's office.

2. What is the chronic abdominal pain pathway?

- It is a map for you and your healthcare providers to follow. It
 makes sure the care you are getting for chronic abdominal
 pain is safe and helpful in managing your symptoms.
- You and your healthcare providers may modify the pathway to best suit your healthcare needs.
- If symptoms cannot be managed over time, you and your healthcare providers may decide a referral to a specialist would be helpful.

3. Check your symptoms

Do you have the following symptoms for at least 3 of the last 6 months?

- Pain or discomfort that is present every day or almost every day
- Pain that impacts your every day activities (e.g. work, sex, leisure activities, family life, ability to care for yourself or others)
- No other medical conditions that might explain your abdominal pain

4. Make lifestyle changes to manage symptoms

- Identify what causes you stress and seek ways to manage it
- Try to get at least 20 minutes of physical activity daily.
 Aim for 150 minutes each week
- Identify foods that cause symptoms and try to limit or avoid them
- Once you find something that works for you, stick with it.
- You may need to keep trying other options to find what works best to manage your symptoms.

5. Tests that may be done

- · Blood and stool tests
- · Urine tests, on occasion
- Other tests may be needed

5. Medicine that may be tried

- Many options can be used to reduce chronic abdominal pain and improve your symptoms
- Talk with your healthcare providers about what medicines may be right for you

6. Tell your healthcare provider if you have these symptoms:

- · Family history of colon cancer
- · Losing weight without meaning to
- · Repeated or unexplained vomiting
- · Stool that is black in colour or has blood in it

If your symptoms don't improve, get worse, or keep interfering with your everyday activities, talk to your healthcare provider(s).

You can find more information at:

- International Foundation for Gastrointestinal Disorders (IFFGD) <u>iffgd.org</u> *GI disorders - Functional Abdominal Pain Syndrome
- Common Questions About Functional Abdominal Pain Syndrome (IFFGD) <u>iffgd.org/gi-disorders/functional-abdominal-pain-syndrome/common-questions</u>
- Patient Resource Center: Abdominal Pain Syndrome gi.org/topics/abdominal-pain/
- The Science of Pain <u>badgut.org/information-centre/a-z-digestive-topics/the-science-of-pain</u>
- Dealing with Chronic Pain <u>badgut.org/information-centre/a-z-digestive-topicschronic-pain/</u>
- Dietician Services: https://www.healthlinkbc.ca/
 health-services/healthlink-bc-811-services/dietitian-services

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