

Case Studies

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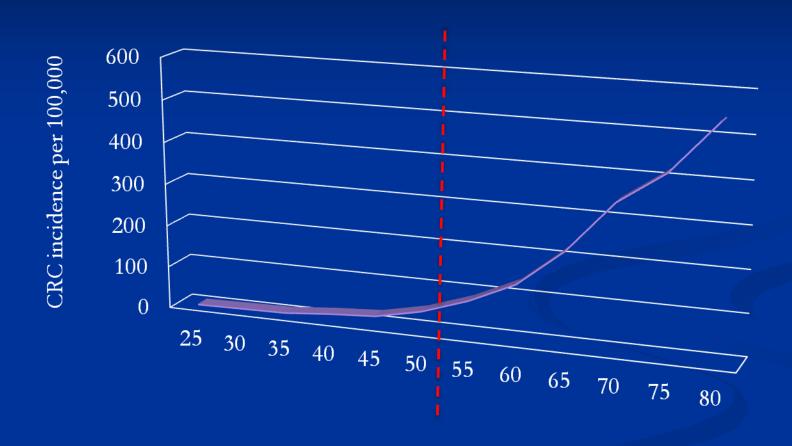


- low rate of early stage diagnosis of CRC and surgically curable localised disease.
- 20% of disease at diagnosis in NZ is metastatic
- CRC typically has a long asymptomatic phase
- Unawareness of the significance of aspects of their family history
- Screening for CRC in NZ is still in its infancy.





Age-specific incidence of CRC per 100,000









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Latest Resources

Bowel Cancer: Information for people at risk of bowel cancer »

D.

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Surveillance for people at increased risk of colorectal cancer »

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PEARLS

Should I consider cognitive behavioural therapy (CBT) as a treatment for individuals with tinnitus?



Popular Resources





Case 1

- Mr T Pickle
 - 65 yr old man
 - PR blood mixed with stool
 - Altered (loose) bowel habit
 - Hb 105 g/L
- No abdominal pain
- No family history
- No wt loss





Presentation

Table 2. Frequency and Duration of the Symptoms and Signs of Colorectal Cancer (N = 194)

Variable	No.	(%)	Median Duration, Wk (25–75%)*
Fecal occult blood test positive	149	(77)	2 (1–7)
Rectal bleeding	113	(58)	8 (3–19)
Anemia†	110	(57)	2 (1–5)
Abdominal pain	100	(52)	8 (3–20)
Weight loss	76	(39)	27 (9–42)
Anorexia	53	(27)	9 (4–24)
Constipation	53	(27)	10 (3–20)
Altered stools	48	(25)	9 (4–19)
Fatigue	49	(25)	14 (5–27)
Diarrhea	43	(22)	5 (3–15)
Nausea or vomiting	42	(22)	2 (1–5)
Tenesmus	16	(8)	5 (4–21)
Mucus in stools	12	(6)	12 (6–28)
Rectal pain	10	(5)	14 (10–22)
Obstruction	7	(4)	1 (1-4)

^{*} Interquartile range.

[†] Anemia: a homoglobin of <13.4 g/dl (male) and <12.3 g/dl (female).





Northern Regional Prioritisation Criteria for Colonoscopy

	Types of Patients			
Category	Colonoscopy	CT Colonography	Targe Time	
	Known cancer, to pre operatively check for synchronous cancer	CTC with IV contrast i.e. staging at the same time	< 2 week	
	Abdominal mass	Either		
Priority 1	Imaging (CTC / Barium Enema) suggestive of tumour?	N/A		
E.	IBD with severe symptoms	N/A		
	Palpable / visible rectal tumour (these patients can also be offered rigid sigmoidoscopy during FSA Gastroenterologist / Surgeon	CTC with IV contrast to check for synchronous proximal lesion and stage(MRI Pelvis local staging)		
	Changed Bowel habits (looser, more frequent), age >60	Or Constipated – CTC	< 6	
	Rectal bleeding without anal symptoms, age >60	Or CTC	Week	
Priority 2	Rectal bleeding plus changed bowel habits (looser, more frequent)	Or CTC		
Prio	Fe deficiency anaemia (Male Hb<110 any age; Female Hb<100+ post menopausal / GI symptoms / positive family history/ positive FOB)	Or CTC		
	Positive FOB (appropriately collected in asymptomatic patient), age >50	N/A		
	IBD diagnostic	N/A		
rity 3	Imaging / Sigmoidoscopy shows polyp >10 mm	N/A	< 3	
Prio	Changed bowel habits (looser, more frequent), age 40-60	Or CTC	Month	
Priority 4 Priority 3	Imaging / Signoidoscopy shows polyp < 10 mm	Or CTC surveillance	< 6	
Prior	Younger patients (age < 40 who require colonoscopy after FSA Gastroenterologist / Surgeon	N/A	Month s	
Ø	All Surveillance	Or CTC		







Northern Cancer Network









		staging)		
	• Changed Bowel habits (looser, more frequent), age	Or Constipated – CTC	. 6	
	Rectal bleeding without anal symptoms, age >60	Or CTC	< 6 Weeks	
ity 2	Rectal bleeding plus changed bowel habits (looser, more frequent)	Or CTC		
Priority 2	Fe deficiency anaemia (Male Hb<110 any age; Female Hb <100+ post menopausal / GI symptoms / positive family history/ positive FOB)	Or CTC		
	Positive FOB (appropriately collected in asymptomatic patient), age >50	N/A		
	IBD diagnostic	N/A		





	IBD diagnostic	IV/A	
Priority 3	 Imaging / Sigmoidoscopy shows polyp >10 mm Changed bowel habits (looser, more frequent), ag 40-60 	N/A Or CTC	< 3 Month s
Priority 4	 Imaging / Signoidoscopy shows polyp < 10 mm Younger patients (age < 40 who require colonoscopy after FSA Gastroenterologist / Surge 	Or CTC surveillance N/A	< 6 Month s
S	All Surveillance	Or CTC	





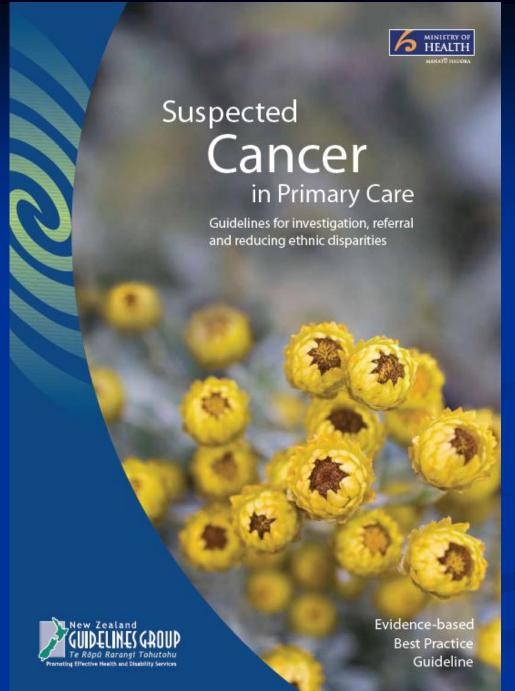
















Case 2

- Mrs Y Me
 - 55 yr old woman
 - Has a friend in Auckland who had a colonoscopy in the pilot screening programme and had a cancer found
 - Worried and would like a colonoscopy too
- No red flag symptoms
- Normal haemoglobin





FREE BowelScreening programme

- Free programme to check people for early signs of bowel cancer
- Four-year pilot to test whether bowel screening should be introduced throughout NZ
- Offered to anyone aged 50 74, living in the Waitemata DHB area and eligible for publicly funded healthcare
- Invitation-based programme
- Central coordination centre
- Dedicated endoscopy
- Fully funded by Waitemata DHB



Bowel Cancer

- Good understanding of disease process and of early stages
- Polyp to carcinoma sequence
- Long lag time from early to late stages
- Stage 1 approx 94% 5 year survival
- Stage 4 approx 8% 5 year survival
- Well established treatment protocols



Primary care's role in the BowelScreening programme

- Inform eligible patients about Bowel Screening
- Encourage eligible patients to take part
- Management of positive results
- Refer to colonoscopy
- Support patient along the screening pathway
- Waitemata DHB funds GP contact with patient to discuss positive results and any follow-up appointments



Positive results management

- GP receives patient's results 3 days after patient posts sample
- If blood is found in sample GP contacts patient to discuss results and refer to colonoscopy
- If no blood found in sample GP doesn't need to do anything and patient automatically recalled for screening within the 24 months of initial test
- GP refers patient to colonoscopy within 10 days
- Co-ordination centre is a safety net



Programme planning assumptions











- Mrs Young Ster
 - 42 yr old
 - Concerned about her family history
 - Should she have a colonoscopy?
- No bowel symptoms
- Family history
 - Maternal aunt Colon Ca 45yrs
 - Maternal Grandmother ?gynae cancer 40yrs
 - Brother polyps 42 yrs





Surveillance for people at increased risk of colorectal cancer

A primary care practitioner resource

January 2012

Colorectal cancer in New Zealand

- The second most common cancer registered and second most common cause of death from cancer
- Approximately 2800 new cases, and between 1100 and 1200 deaths each year
- Risk for CRC increases with age see Table 1

Table 1. Age-specific colorectal cancer incidence in New Zealand 2008

Age group (years)	Rate per 100,000	Risk of developing CRC during 5-year period (%)	
25-29	2.9	< 0.1	
30-34	4.8	< 0.1	
35–39	6.7	<0.1	
40-44	16.5	< 0.1	
45-49	23.5	0.12	
50-54	47.0	0.23	
55–59	84.3	0.42	
60-64	134.9	0.67	
65-69	223.5	1.12	
70-74	344.3	1.72	
75–79	419.7	2.10	
80-84	540.8	2.70	

Source: Ministry of Health. Cancer: new registrations and deaths 2008. Ministry of Health, 2011.

People with a personal history of adenomatous polyps, inflammatory bowel disease (IBD), CRC or with a family history of CRC are at increased risk compared to the general population. The aim of this resource is to assist practitioners to determine the need for and frequency of surveillance colonoscopy for people with:

- · personal history of adenomatous polyps
- · personal history of inflammatory bowel disease
- · personal history of colorectal cancer
- family history of colorectal cancer.

Colonoscopic surveillance: good practice points

good practice points		
Patient age	People aged 75 years or older should be carefully considered before offering surveillance because the potential risks associated with ongoing colonoscopic surveillance are likely to outweigh the benefits	
Comorbidities	People with significant comorbidities should be carefully considered before offering surveillance because their fitness for colonoscopy may be impaired and may significantly decrease life expectancy	
Ongoing surveillance	At each surveillance test, discuss the potential benefits, limitations and risks of ongoing surveillance. Base a decision to stop surveillance on potential benefits for the person, their preferences and any comorbidities. Make the decision jointly with the person and if appropriate their family or carers	
Bowel preparation	Bowel purgatives used for bowel cleansing prior to colonoscopy should be chosen with attention to patient age and comorbidities to mitigate risks of renal impairment. Those associated with severe fluid or electroided in high-risk groups, and judicious use of oral or intravenous electrolyte replacement should be considered	
Patient information	Patients should be given information about the bowel preparation process and possible side effects	

This guidance is an update of existing guidance. The Information in this resource is drawn from the evidance-based guidance document Guidance on Surveillance for People or Increased Risk of Colorectal Cancer (2012) and where specified, the guidaline Managament of Early Colorectal Cancer (2011). Both are available online at www.nagg.org.nz.









Category 1 Individuals with a slight increase in risk of CRC

One first-degree relative with CRC diagnosed over the age of 55 years

Recommendations*	Grade
No specific surveillance recommendations are made for this group at this time given the slight increase in risk, the uncertainty regarding the age at which this additional risk is expressed and the concern regarding the appropriateness of colonoscopy as a surveillance procedure in this group	*
Prompt investigation of lower bowel symptoms is advised	•

Category 2 Individuals with a moderate increase in risk of CRC

- One first-degree relative with CRC diagnosed before the age of 55 years
- Two first-degree relatives with CRC diagnosed at any age

Recommendations*	Grade
Offer colonoscopy every 5 years from the age of 50 years (or from an age 10 years before the earliest age at which CRC was diagnosed in the family, whichever comes first)	С

Category 3 Individuals with a potentially high risk of CRC

- A family history of familial adenomatous polyposis (FAP), hereditary non-polyposis colorectal cancer (HNPCC) or other familial CRC syndromes
- One first-degree relative plus two or more first-degree or second-degree relatives all on the same side of the family with a diagnosis of CRC at any age
- Two first-degree relatives, or one first-degree relative plus one or more second-degree relatives, all on the same side
 of the family, with a diagnosis of CRC and one such relative:
 - was diagnosed with CRC before the age of 55 years; or
 - developed multiple bowel cancers; or
 - developed an extracolonic tumour suggestive of hereditary non-polyposis colorectal cancer (ie, endometrial, ovarian, stomach, small bowel, renal pelvis, pancreas, brain)
- At least one first-degree or second-degree relative diagnosed with CRC in association with multiple bowel polyps
- A personal history or one first-degree relative with CRC diagnosed before the age of 50 years, particularly where
 colorectal tumour immunohistochemistry has revealed loss of protein expression for one of the mismatch repair genes
 (MLH1, MSH2, MSH6, PMS2)
- · A personal history or one first-degree relative with multiple colonic polyps







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The NZ Familial Gastrointestinal Cancer Registry is comprised of a multidisciplinary team that specialises in the assessment and management of familial gastrointestinal cancer. The team consists of family history assessors, gastroenterologists, colorectal surgeons, oncologists and geneticists. We work closely with

We are a national service funded by the Ministry of Health with offices in Auckland and Christchurch.

What is Familial
Gastrointestinal Cancer?

Is your family at risk?

Where can you get help?

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■ Mr O Generian

- 85 yr old
- Altered bowel habit (constipation)
- Borderline Fe deficiency anaemia

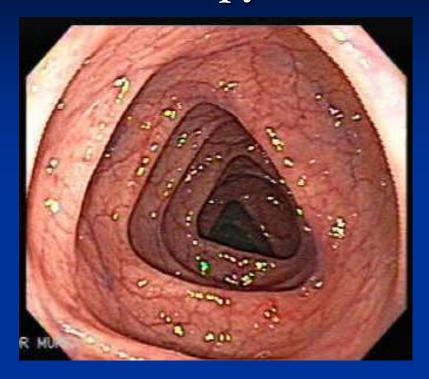
Comorbidities

- COPD requiring frequent short-course oral steroid
- Atrial fibrillation on Warfarin
- Mild chronic renal failure





Colonoscopy?



CT Colonography?







Consider 'limited prep' CT colonography

■ No mechanical bowel prep

■ A few different types

■ Stages the rest of the abdomen at the same time









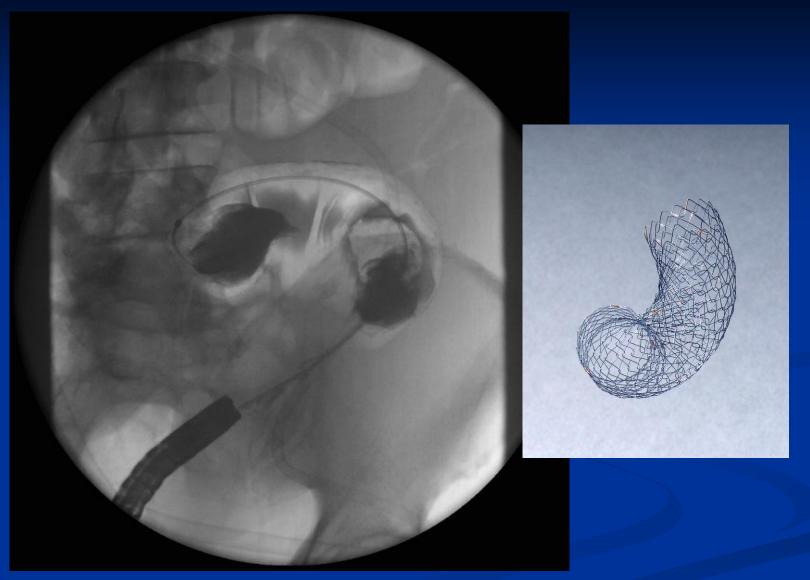


- Limited-prep CT colonography shows
 - Obstructing mid-sigmoid tumour
 - Bilobar liver metastases

- Options
 - Colostomy?
 - Non-operative options?

















Mrs BZ Bee

- 32 yrs old
- Mother of two
- Altered bowel habit
- Iron deficiency anaemia
 - 'heavy periods'

- Father has 'polyps'
 - Had a few colonoscopies...







Suspected Cancer

Good practice points

Colorectal cancer: urgent referral (within two weeks)

A person presenting with a right-sided abdominal mass, should be referred urgently for a surgical opinion

Y

A menstruating woman with unexplained iron deficiency anaemia* and a haemoglobin of 100 g/L or below, should be referred urgently to a specialist 1

 Unexplained iron deficiency anaemia means unrelated to other sources of blood loss, for example, heavy menstrual bleeding, non-steroidal anti-inflammatory drug treatment or blood dyscrasia

Opinion of the Guideline Development Team, or feedback from consultation within New Zealand where no evidence is available.





Evidence-based Best Practice Guideline



- Colonoscopy
 - Sigmoid cancer
 - Passable with colonoscope
 - 15 polyps throughout the colon
 - 'hyperplastic'
 - Two serrated adenomata

- CT chest/abdo/pelvis
 - Bilobar liver metastases
 - Not resectable





- Discussed in MDTM
 - Chemo

■ ?A role for surgery

Resection of primary tumour may carry a survival benefit





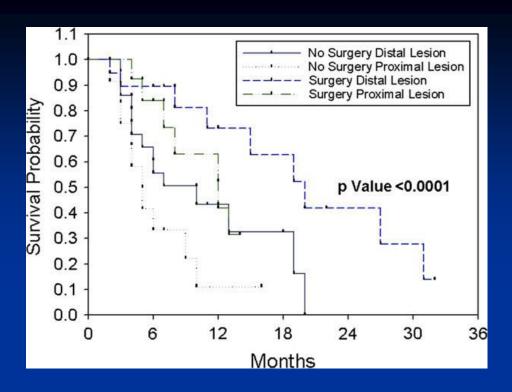


TABLE 3. Independent predictors of overall survival in patients with stage IV colorectal cancer

Variables	Hazard ratio	95% CI	Р
variables	ratio	95 % CI	P
Type of surgery			
None	1.000		
Resection/anastomosis	0.507	0.371-0.692	.0001
Resection/stoma	0.578	0.401-0.833	.003
Defunctioning stoma	0.614	0.325-1.161	.134
ASA score			
1	1.000		
3	1.493	1.150-1.941	.003
4	2.532	1.505-4.258	.0001
Chemotherapy			
None	1.000		
Yes	0.636	0.457-0.885	.007
Fluoropyrimidine	0.73	0.51-1.04	.081
Oxaliplatin/Irinotecan	0.25	0.10-0.60	.002
Radiotherapy			
None	1.000		
Yes	0.543	0.352-0.835	.005

CI = confidence interval.





- Review of pathology reports from Father
 - Mostly hyperplastic polyps found each time...

- Patient now concerned about 'something in the family'
 - 'want my kids checked'







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