

A systematic review of the performance of risk prediction models for colorectal cancer and advanced neoplasia in symptomatic patients

Review methods were amended after registration. Please see the revision notes and previous versions for detail.

Citation

James Hampton, Ryan Kenny, Catherine Richmond, Claire Eastaugh, Willie Hamilton, Linda Sharp, Colin Rees. A systematic review of the performance of risk prediction models for colorectal cancer and advanced neoplasia in symptomatic patients. PROSPERO 2022 CRD42022314710 Available from: https://www.crd.york.ac.uk/prospero/display_record.php?ID=CRD42022314710

Review question

Aim:

1) To identify and synthesise quantitative data on the contributions of FIT and other variables (utilised within existing risk prediction models) for the prediction of colorectal cancer (CRC) and/or advanced colorectal polyps (ACP) in symptomatic patients

Objectives:

1) To identify, and assess the performance, of models that predict the risk of CRC and/or ACP in symptomatic patients

2) To identify, and assess the performance of, FIT based models that predict the risk of CRC and/or ACP in symptomatic patients

Searches

The search strategy will be developed subjectively and iteratively, based upon reporting methods and indexing of prediction and prognostic studies. The main prognostic study filter added to the content search strategy follows the study by Geersing. et.al. This is a validated filter attributed to the Cochrane Prognostic Group and is associated with the Dutch Cochrane Centre. The filter has been pre-validated by the authors, to confirm that it results in a highly sensitive search for retrieving hard to find prediction studies, and clinical decision rules. The main diagnostic study filter added to the search strategy is used by SIGN and has been adapted from the filter designed by the Health Information Research Unit of the McMaster University, Ontario.

The search strategy is designed to run on (OVID) MEDLINE initially, using a combination of MESH thesaurus headings and keywords pertaining to CRC, risk models and prognosis, with appropriate use of stemming for alternative word endings, alternative spellings and plurals. No restrictions will be applied according to language or country.

The following electronic databases will be used:

MEDLINE

Embase

Cochrane Library

Scopus

NIHR National Institute for Health Research

CINAHL

This topic is a rapidly evolving field of research it is likely that some relevant work will not yet be published in scientific journals therefore, grey literature sources (e.g., GoogleScholar), registers of trials/protocols (e.g., Clincialtrials.gov) and repositories for preprints (e.g., Open Science Framework) and abstracts will also be searched.

Forward and backward citation searching will be utilised and reference lists of any relevant systematic reviews will be reviewed. In addition, experts with the field will be consulted to ensure all eligible studies are included.

Types of study to be included [1 change]

Predictive modelling studies using randomised designs, prospective or retrospective cohort studies or cross sectional studies.

Studies that report the positive predictive value for combinations of predictors will also be considered

Studies will be excluded if they do not match the inclusion criteria and if:

No full text is available, however, abstracts that report full findings will be included. Where appropriate we will contact authors for data.

Non-English Language papers

Assess solely screening populations or populations undergoing surveillance. Studies containing both screening /surveillance and symptomatic will be eligible if the symptomatic group is reported separately.

Studies that are looking at prognostic factors in treatment or outcome of CRC (instead of disease risk)

Studies that focus only upon genetic variables.

Contain paediatric populations

Condition or domain being studied

Colorectal cancer. Risk prediction models.

Participants/population [1 change]

Patients with symptoms suggestive of CRC. Any stage of CRC or type of ACP will be considered.

Studies performed in primary care that use primary care datasets/cancer registries to identify CRC diagnoses, will be included unless it is explicitly stated patients were asymptomatic or screening populations. The rationale for this is because in primary care the majority of CRCs are diagnosed through symptomatic services.

For studies recruiting patients from colonoscopy lists, hospital records or cancer units, or which use data/samples from commercial or publicly available datasets/repositories, the authors must state patients were symptomatic.

Intervention(s), exposure(s)

NIHR National Institute for Health Research

All predictive models concerned with the prognostic ability of models containing FIT and/or other prognostic factors for the prediction of CRC and/or ACP in symptomatic patients.

Comparator(s)/control

None

Context

Studies from primary, secondary or tertiary care

Main outcome(s) [1 change]

Ability to detect CRC, ACP* or both

*There are several terms that can be used to describe colorectal polyps with features that are high risk for malignancy, and we acknowledge that there is variation in the terms used. For the review, all studies that use any of following terms as outcomes will be accepted. All definitions of these terms, including but not limited to the definitions below, will be accepted:

Advanced serrated polyp—A serrated polyp of at least 10mm in size or containing any grade of dysplasia

Advanced adenomatous polyp (advanced adenoma)—An adenoma of at least 10mm in size or containing high-grade dysplasia

Advanced colorectal polyp (ACP)-includes both advanced serrated polyps and advanced adenomatous polyp

Advanced colorectal neoplasia (ACN) - This term has been used historically to describe the combination of advanced adenomas and colorectal cancers

Additional outcome(s)

Not applicable

Data extraction (selection and coding)

Study selection will be conducted in two stages, involving screening the citations identified by the search and identifying those meeting the inclusion criteria.

Firstly, citations will be exported from the Endnote library and into Rayyan, a web-based tool designed to speed up the process of screening and selection of studies. Title and abstract screening will be conducted independently in a blinded manner by two reviewers.

Secondly, studies that appear to meet the eligibility criteria will be exported back into Endnote and the full text papers will be obtained. Where full texts are not readily available locally, we will obtain the full text report using an inter-library loan. Full papers will be independently screened by two reviewers against the eligibility criteria. Any disagreements will be resolved by arbitration with a third reviewer.

A detailed description of the screening and selection process, including reasons of exclusion at full text stage will be documented using the guidelines in the PRISMA statement.

A data extraction form will be created based on the Checklist for critical Appraisal and data extraction for systematic Reviews of prediction Modelling Studies. A single reviewer will extract data from included studies; a second reviewer will check for accuracy.



Data extracted will include:

- Publication title and journal
- Study design
- Setting (e.g., primary care or secondary care)
- Participant information
- Eligibility criteria
- Recruitment methods
- Outcomes to be predicted
- Candidate predictors
- Sample size
- Missing data
- Model Development
- Model performance measures
- Model evaluation
- Results
- Interpretation and Discussion

Any additional information on the performance of models, such as the prognostic ability of models to predict multiplicity of polyps or non-advanced colorectal polyps will also be extracted where available.

Risk of bias (quality) assessment

Each study will be assessed using the Prediction study Risk Of Bias Assessment Tool (PROBAST). One researcher will assess the risk of bias, with a second reviewer checking for accuracy. Any conflicts that cannot be resolved will be arbitrated with a third reviewer. The PROBAST toll assesses the risk of bias and applicability of prediction modelling studies across four domains:

- Participant selection
- Predictors
- Outcomes
- Analysis

Each domain is rated as low, high or unclear risk of bias by applying responses to signalling questions about the study in the tool and then an overall judgement of risk of bias is made using one of the following three categories:

- Low risk



- High risk

- Unclear risk

Strategy for data synthesis [1 change]

Where possible we will meta-analyse the predictive performance of similar prediction models using statistical measures of predictive performance, discrimination and calibration.

Discrimination is a prediction model's ability to distinguish between patients developing and not developing the outcome of interest. This is commonly quantified by the concordance (C) statistic or the area under the receiver operating characteristic (AUROC).

Calibration is a prediction model's accuracy of predicted risk probabilities, indicating the extent to which expected outcomes (predicted from the model) and observed outcomes agree. If possible we will extract information regarding the total number of observed (O) and expected (E) events. The total O:E ratio provides a rough indication of the overall model calibration across the entire range of predicted risks. Additionally, when reported we will extract information summarising estimates of the calibration slope.

We will consider measures of accuracy (sensitivity and specificity). Sensitivity evaluates a model's ability to predict true positives, while specificity the true negatives.

For meta-analysis we will follow guidance by Debray and colleagues. Briefly, we will run a random-effects metaanalysis, using the REML estimation and the HKSJ correction. Additionally, we will include 95% prediction intervals. To assess the influence of each study on the overall effect size, a sensitivity analysis using the leave-one-out method will be utilised. included compared to when it is not included.

A narrative synthesis will also be presented. If a meta-analytical approach is not possible, we will follow the guidelines for Synthesis Without Meta-analysis. It is possible that the review will identify studies that utilise factors which are not routinely collected or used in clinical practice. As such, we will provide a narrative overview of which factors are commonly available and those that are not.

Analysis of subgroups or subsets

Risk status of the patients is an important clinical consideration, which will be described narratively, and where possible a subgroup analysis will be provided. Additionally, we will consider further subgroup analyses by neoplasia outcome (CRC, ACN or ACP) and by study design (e.g., retrospective vs prospective).

Contact details for further information

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Organisational affiliation of the review

Newcastle University

Review team members and their organisational affiliations

Dr James Hampton. Newcastle University

Dr Ryan Kenny. Newcastle University

Catherine Richmond. Newcastle University

NIHR National Institute for Health Research

Claire Eastaugh. Newcastle University Professor Willie Hamilton. University of Exeter Professor Linda Sharp. Newcastle University Professor Colin Rees. Newcastle University

Type and method of review

Meta-analysis, Narrative synthesis, Systematic review

Anticipated or actual start date

03 January 2022

Anticipated completion date [1 change]

31 October 2022

Funding sources/sponsors

NIHR HTA Programme

Grant number(s)

State the funder, grant or award number and the date of award

NIHR133852

Conflicts of interest

Language

English

Country

England

Stage of review

Review Ongoing

Subject index terms status

Subject indexing assigned by CRD

Subject index terms

Colonoscopy; Colorectal Neoplasms; Early Detection of Cancer; Humans



Date of registration in PROSPERO

15 March 2022

Date of first submission

11 March 2022

Stage of review at time of this submission [1 change]

Stage	Started	Completed
Preliminary searches	Yes	Yes
Piloting of the study selection process	Yes	Yes
Formal screening of search results against eligibility criteria	Yes	Yes
Data extraction	Yes	No
Risk of bias (quality) assessment	Yes	No
Data analysis	No	No

Revision note

The inclusion criteria was amended to provide increased clarity on which studies are to be included in the review.

The record owner confirms that the information they have supplied for this submission is accurate and complete and they understand that deliberate provision of inaccurate information or omission of data may be construed as scientific misconduct.

The record owner confirms that they will update the status of the review when it is completed and will add publication details in due course.

Versions			
15 March 2022			
26 August 2022			

COLOFIT Search Strategies

Claire Eastaugh Research Assistant Information Specialist Evidence Synthesis Group 11/03/2022

Contents

Totals	2
MEDLINE	3
EMBASE	5
CINAHL	7
Scopus	9
Cochrane Libraries	8

Totals

Searches carried out on: 04/03/22

DATABASE	NUMBER OF RESULTS
MEDLINE	5227
EMBASE	11222
CINAHL	936
COCHRANE LIBRARIES	673
SCOPUS	6233
TOTAL BEFORE DE-DUPLICATION	24291
TOTAL AFTER DE-DUPLICATION	15614

MEDLINE

Database(s): Ovid MEDLINE® and Epub Ahead of Print, In-Process, In-Data-Review & Other Non-Indexed Citations, Daily and Versions 1946 to March 03, 2022 Search Strategy:

Searches Results 100088 1 Colorectal Neoplasms/ 45391 2 Rectal Neoplasms/ ((colorectal or rectal or rectum) adj3 (cancer* or carcinoma* or neoplas* or tumo?r* or 3 170761 malignan*)).ti,ab,kw. Colonic polyps/ 4 9269 1953 5 adenoma/ and exp intestine, large/ 11508 6 ((colorectal or rectal or rectum) adj3 (polyp* or adenoma*)).ti,ab,kw. 7 ("colorectal polyp" or "serrated polyp").ti,ab,kw. 883 8 or/1-7 208844 9 ("clinical feature" or symptom*).ti,ab,kw. 1296398 (((bowel* or 3ntestine*) adj3 obstruction*) or ("abdominal pain" or fatigue or an?emia or 10 constipation or diarrh?ea or "weight loss" or "gastrointestinal h?emorrhage" or h?ematochezia or 547989 "rectal bleed*")).ti,ab,kw. 43832 11 Gastrointestinal Hemorrhage/ 12 Intestinal Obstruction/ 30776 13 Abdominal Pain/ 22748 53062 14 Anemia/ 15 Fatigue/ 32076 16 Constipation/ 15115 17 Diarrhea/ 50480 18 Weight Loss/ 40477 19 or/9-18 1850715 Validat\$.mp. or Predict\$.ti. or Rule\$.mp. or (Predict\$ and (Outcome\$ or Risk\$ or Model\$)).mp. or ((History or Variable\$ or Criteria or Scor\$ or Characteristic\$ or Finding\$ or Factor\$) and (Predict\$ or Model\$ or Decision\$ or Identif\$ or Prognos\$)).mp. or (Decision\$.mp. and ((Model\$ or Clinical\$).mp. or Logistic Models/)) or (Prognostic and (History or Variable\$ or Criteria or 20 5532466 Scor\$ or Characteristic\$ or Finding\$ or Factor\$ or Model\$)).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] 21 exp "Sensitivity and Specificity"/ 631973

22	sensitivity.tw.	891726
23	specificity.tw.	510983
24	((pre-test or pretest) adj probability).tw.	2585
25	post-test probability.tw.	673
26	predictive value\$.tw.	123033
27	likelihood ratio\$.tw.	17752
28	or/21-27	1617403
29	20 or 28	6502020
30	8 and 19 and 29	5227

EMBASE

Database(s): **Embase** 1974 to 2022 March 03 Search Strategy:

#	Searches	Results
1	colorectal tumor/	26738
2	rectum tumor/	14232
3	((colorectal or rectal or rectum) adj3 (cancer* or carcinoma* or neoplas* or tumo?r* or malignan*)).ti,ab,kw.	253970
4	colon polyp/	13698
5	adenoma/ and exp large intestine/	3648
6	((colorectal or rectal or rectum) adj3 (polyp* or adenoma*)).ti,ab,kw.	17622
7	("colorectal polyp" or "serrated polyp").ti,ab,kw.	1816
8	or/1-7	279404
9	("clinical feature" or symptom*).ti,ab,kw.	1914307
10	(((bowel* or intestin*) adj3 obstruction*) or ("abdominal pain" or fatigue or an?emia or constipation or diarrh?ea or "weight loss" or "gastrointestinal h?emorrhage" or h?ematochezia or "rectal bleed*")).ti,ab,kw.	823550
11	gastrointestinal hemorrhage/	66866
12	intestine obstruction/	30920
13	abdominal pain/	181408
14	anemia/	204147
15	fatigue/	233010
16	constipation/	98854
17	diarrhea/	257700
18	body weight loss/	61152
19	or/9-18	2921215
20	Validat\$.mp. or Predict\$.ti. or Rule\$.mp. or (Predict\$ and (Outcome\$ or Risk\$ or Model\$)).mp. or ((History or Variable\$ or Criteria or Scor\$ or Characteristic\$ or Finding\$ or Factor\$) and (Predict\$ or Model\$ or Decision\$ or Identif\$ or Prognos\$)).mp. or (Decision\$.mp. and ((Model\$ or Clinical\$).mp. or Logistic Models/)) or (Prognostic and (History or Variable\$ or Criteria or Scor\$ or Characteristic\$ or Finding\$ or Factor\$ or Model\$)).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]	7476614
21	exp "SENSITIVITY AND SPECIFICITY"/	422875
22	sensitivity.tw.	1153136

23	specificity.tw.	660171
24	((pre-test or pretest) adj probability).tw.	4578
25	post-test probability.tw.	958
26	predictive value\$.tw.	184292
27	likelihood ratio\$.tw.	24160
28	*Diagnostic Accuracy/	15771
29	or/21-28	1711747
30	20 or 29	8496784
31	8 and 19 and 30	11222

CINAHL

Friday, March 04, 2022 9:41:10 AM

#	Query	Results
S30	S8 AND S19 AND S29	936
S29	S20 OR S28	960,588
S28	S21 OR S22 OR S23 OR S24 OR S25 OR S26 OR S27	212,668
S27	TI likelihood ratio\$ OR AB likelihood ratio\$	6,242
S26	TI predictive value\$ OR AB predictive value\$	31,489
S25	TI post-test probability OR AB post-test probability	290
S24	TI ((pre-test or pretest) N probability) OR AB ((pre-test or pretest) N probability)	7
S23	TI Specificity OR AB Specificity	67,370
S22	TI Sensitivity OR AB Sensitivity	131,726
S21	(MH "Sensitivity and Specificity+")	89,540
S20	TX (Validat\$ or Predict\$ or Rule\$ or (Predict\$ and (Outcome\$ or Risk\$ or Model\$)) or ((History or Variable\$ or Criteria or Scor\$ or Characteristic\$ or Finding\$ or Factor\$) and (Predict\$ or Model\$ or Decision\$ or Identif\$ or Prognos\$)) or (Decision\$ and ((Model\$ or Clinical\$) or Logistic Models/)) or (Prognostic and (History or Variable\$ or Criteria or Scor\$ or Characteristic\$ or Finding\$ or Factor\$ or Model\$)))	806,127
S19	S9 OR S10 OR S11 OR S12 OR S13 OR S14 OR S15 OR S16 OR S17 OR S18	492,247
S18	(MH "Weight Loss")	24,084
S17	(MH "Diarrhea")	11,404
S16	(MH "Constipation")	6,672
S15	(MH "Fatigue")	20,073
S14	(MH "Anemia")	11,014
S13	(MH "Abdominal Pain")	9,881
S12	(MH "Intestinal Obstruction")	4,347
S11	(MH "Gastrointestinal Hemorrhage")	6,968
S10	TI (((bowel* or intestin*) N3 obstruction*) or ("abdominal pain" or fatigue or an#emia or constipation or diarrh#ea or "weight loss" or "gastrointestinal h#emorrhage" or h?ematochezia or "rectal bleed*")) OR AB (((bowel* or intestin*) N3 obstruction*) or ("abdominal pain" or fatigue or an?emia or constipation or diarrh#ea or "weight loss" or "gastrointestinal h#emorrhage" or h?ematochezia or "rectal bleed*"))	121,849
S9	TI ("clinical feature" or symptom*) OR AB ("clinical feature" or symptom*)	358,503
S8	S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7	48,970
S7	TI ("colorectal polyp" or "serrated polyp") OR AB ("colorectal polyp" or "serrated polyp")	239
S6	TI (((colorectal or rectal or rectum) N3 polyp*) or adenoma*) OR AB (((colorectal or rectal or rectum) N3 (polyp* or adenoma*)	5,706
S5	(MH "Adenoma") AND (MH "Intestine, Large+")	246
S4	(MH "Colonic Polyps")	2,201
S3	TI ((colorectal or rectal or rectum) N3 (cancer* or carcinoma* or neoplas* or tumo#r* or malignan*)) OR AB ((colorectal or rectal or rectum) N3 (cancer* or carcinoma* or neoplas* or tumo#r* or malignan*))	35,837
S2	(MH "Rectal Neoplasms")	5,584
S1	(MH "Colorectal Neoplasms")	27,925

Cochrane Libraries

ID	Search	Hits
#1	MeSH descriptor: [Colorectal Neoplasms] this term only	5760
#2	MeSH descriptor: [Rectal Neoplasms] this term only	1854
#3	((colorectal or rectal or rectum) near/3 (cancer* or carcinoma* or neoplas* or	20496
	tumo*r* or malignan*)):ti,ab,kw	
#4	MeSH descriptor: [Colonic Polyps] this term only	546
#5	MeSH descriptor: [Adenoma] this term only	1079
#6	MeSH descriptor: [Intestine, Large] explode all trees	3378
#7	(colorectal or rectal or rectum) near/3 (polyp* or adenoma*):ti,ab,kw	1701
#8	("colorectal polyp" or "serrated polyp"):ti,ab,kw	406
#9	#5 AND #6	107
#10	#1 OR #2 OR #3 OR #4 OR #7 OR #8 OR #9	21261
#11	(((bowel* or intestin*) NEAR/3 obstruction*) or ("abdominal pain" or fatigue or	11614
	an?emia or constipation or diarrh?ea or "weight loss" or "gastrointestinal	1
	h?emorrhage" or h?ematochezia or "rectal bleed*")):ti,ab,kw	
#12	MeSH descriptor: [Gastrointestinal Hemorrhage] this term only	1587
#13	MeSH descriptor: [Intestinal Obstruction] this term only	361
#14	MeSH descriptor: [Abdominal Pain] this term only	1141
#15	MeSH descriptor: [Anemia] this term only	2562
#16	MeSH descriptor: [Fatigue] this term only	3973
#17	MeSH descriptor: [Constipation] this term only	1862
#18	MeSH descriptor: [Diarrhea] this term only	3297
#19	MeSH descriptor: [Weight Loss] this term only	6696
#20	{OR #11-#19}	11760
		9
#21	(Validat* or Predict* or Rule* or (Predict* and (Outcome* or Risk* or Model*))	32205
	or ((History or Variable* or Criteria or Scor* or Characteristic* or Finding* or	1
	Factor*) and (Predict* or Model* or Decision* or Identif* or Prognos*))or	
	(Decision* and ((Model* or Clinical*) or Logistic Models)) or (Prognostic and	
	(History or Variable* or Criteria or Scor* or Characteristic* or Finding* or	
#22	MeSH descriptor: [Sensitivity and Specificity] evolode all trees	1611/
#22	("sensitivity"):ti ah kw	63180
#23	("specificity"):ti ab kw	21470
#24	((((nre-test or protect) NEAP probability))):ti ah kw	21470
#25	(((pre-test of protest) NEAK probability))).(i,ab,kw	07
#20	(post-test probability).ti,ab,kw	115
#27	(predictive value '):(i,ab,kw	2100
#28		3108
#29	{UK #22-#28}	82294
#30		36505 5
#31		673
		0,5

Scopus

(TITLE-ABS-KEY (((colorectal OR rectal OR rectum) W/3 (cancer* OR carcinoma* OR neoplas* OR tumour* OR tumor* OR malignan* OR polyp OR adenoma)) OR "colorectal polyp" OR "serrated polyp")) AND (TITLE-ABS-KEY ("clinical feature" OR symptom* OR ((bowel* OR intestin*) W/3 obstruction*) OR "abdominal pain" OR fatigue OR an*emia OR constipation OR diarrh*ea OR "weight loss" OR "gastrointestinal h*emorrhage" OR h*ematochezia OR "rectal bleed*")) AND (TITLE-ABS-KEY ((validat* OR predict* OR rule*)) OR (predict* AND (outcome* OR risk* OR model*)) OR ((history OR variable* OR criteria OR scor* OR characteristic* OR finding* OR factor*) AND (predict* OR model* OR clinical*)) OR (logistic AND models) OR (prognostic AND (history OR variable* OR criteria OR scor* OR characteristic* OR finding* OR factor* OR model*))) OR (TITLE-ABS-KEY (sensitivity OR specificity OR (pre-test OR pretest) W/1 probability) OR (post-test AND (probability OR predictive AND value* OR likelihood AND ratio*)))) AND (not INDEX (medline))

Supplementary file 3: Variables included in each paper and model		Stor	L to sto i D1		Domo	graphics		Die							DMUS				Family Uy	Madicati	n c		Lifectule		_									Sumptome /Signe											Othor	
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Author (year)	FIT gFOB	Faecal T calprotectin	markers	transfer markers	s Age Sex E	BMI Ethnicity	Hb Pits MCV M	CH WBC Ferri	in biomarkers	markers C	EA AFP Ca19	9 colonoscopy	polyps (disease	/BP	(undefined)	Diabetes Estr	rogen use IBS	cancer	Aspirin use NS	AID use Smoking	Hx Alcohol Hx	intake	use activ	ivity le	evel pain b	eeding bowel l	habit muco	ai weight ous loss Diarrh	noea Constipati	on symptoms	Abdominal Abd tenderness r	nass mass	(undefined)	DRE	lesion	vomiting a	appetite s	stools stools	r Fa Anal pain	e emptyii	ng function	er Anal Colo swellin	DNA (urine)		inhibition
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FAST	X				X X																																									
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Cubiella, J (2017) FAST score	X				X X																																									
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Digby, J (2019) (FAST score)	X				X X																																									
Fernandez-Banares, F. (2019) COLONOFIT	X				X							Х									Х																									
Herrero, J M (2018) COLONPREDICT	X				X X						x	Х								X							x x																			
Hogberg, C (2020)																																														
FIT & Hb	X						X																																							
FIT, Hb & Plts	X						X X																																							
Hogberg, C (2017)																																														
FIT and/or Faecal calpro.	X	Х																																												
FIT and/or Hb	X						X																																							
FIT and/or and/Hb or Iron deficiency	X						X	X																																						
Jin, P (2012)	X			Х																																										
Johansen, J S (2015) Review population could be exclude																																														
1) Combination of 2 tests CEA, Serum YKL-40									YKL-40		X																																			
2) Model (excludes patients with comorbidity)					X X				YKL-40		x																																			
Johnstone, M S (2022)	Х						X																																							
Lue A (2020)	Х	Х																																												
Mahadavan, L (2012)	X				X X		Х				x																Х																	Х		
Malagon, M (2021)	Х	PTST	, EUB, BCTF,	встт																																										
Mowat, C (2016)	Х	Х																																												
Parente F, (2012)																																														
FIT & Faecal calprotectin (at least 1 positive)	Х	Х																																												
FIT, Faecal calprotectin & M2-PK (at least 1 positive)	Х	Х		M2-PK																																										
FIT & M2-PK (at least 1 positive)	Х			M2-PK																																										
Faecal calprotectin & M2-PK (at least 1 positive)		Х		M2-PK																																										
Rodriguez-Alonso, L (2015)	Х				X X																																									
Turvill, J (2018)	Х	Х																																												
Widlak, M (2018)																																														
FIT and Faecal calprotectin	Х	Х																																												
FIT and VOC	Х																																											Х		
Widlak, M (2017)	Х	Х																																												
Withrow (2022)																																														
Model a	Х				XX		X	x X		Х																																				
Model b	Х				X		Х																																							
Model c	Х				Х		Х																																							

Abbreviations: FIT: Faecal immunochemical test

gFOBT: guaiac faecal occult blood testing CRC: colorectal cancer BMI: body mass index Hb: Haemoglobin MCV: Mean corpuscular volume MCH: Mean corpuscular haemoglobin WBC: white blood cell CEA: Carcinoembryonic Antigen BP: blood pressure IBS: irrital bowel syndrome NSAID: Non-steroidal anti-inflammatory drugs Hx: history DRE: digital rectal examination VOC: volatile organic compound

	Demographics	Blood tests		PMHx Family Hx Medications		Lifestyle				Symptoms/Signs		Other
Author (year)	Age Sex BMI Ethnicity Hb Plts MCV MCH	WBC Ferritin Protein biomarkers Inflammatory markers e.g. CRP	CEA AFP Ca19-9 Previous colonoscopy Colonic polyps Diverticular disease	Hypertension/BP Relevant history (undefined) Diabetes Estrogen use IBS Gastrointestinal cancer Aspirin use NSAID use	e Smoking Hx Alcohol Hx Red meat intake	multivitamin use P	Physical activity Educatio	n level Abdominal pain Rectal bleeding	Change in bowel habit Rectal mucous Weight loss Diarrhoea Constipation Peri-anal symptoms	Abdominal tenderness Abdominal mass Rectal mass Abdominal symptoms (undefined) Abnormal DRE Benign anorectal lesion	Nausea or vomiting Loss of appetite Blood/Jelly stools Harder stools Anal pain Fatigue Tenesmus/emptying Abnormal liver function	Anal swelling Colonocyte DNA VOC (urine) DNA
Abdelhady, S (2021)		Golgi Protein 73							× · · · · · · · · · · · · · · · · · · ·			
Adelstein, B. A (2011)					x		Х					
Alatise, O. (2018)	Y Y							v	X X X			
Blume, J E (2016)												
CRC model 1 CRC model 2		AACT, CATD, CO3, CO9, MIF, PSGL, SEPR A1AG1, A1AT, CATD, CO9, OSTP, SEPR				<u> </u>						
Advanced adenoma model		CATD, CLUS GDF15, SAA1										
Collins G S (2012) QCancer (Men)	X X X				X			X X	X X I I I I I I I I I I I I I I I I I I		X I I I I I I I I I I I I I I I I I I I	
QCancer (Women)	X X							Х Х	X		X I I I I I I I I I I I I I I I I I I I	
Croner, L (2017) Ellis, B (2005)		A1AG, CO9, DPPIV, MIF, PKM2, SAA, TFRC										
Rectal bleeding and CIBH								Х Х	X V			
Rectal bleeding and CIBH (hard)								x			X X III III III III III III III III III	
Rectal bleeding and peri-anal symptoms Rectal bleeding, CIBH and abdominal pain									X X			
Ewing, M (2016)												
CIBH & bleeding CIBH & Abdominal pain								X X	X X			
CIBH & Anaemia	X								X IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			
Bleeding & Abdominal pain Bleeding & Anaemia												
Weight loss & Anaemia									X X			
Fijten, G. H (1995)	X							х Х	X I I I I I I I I I I I I I I I I I I I			
Hamilton, W. (2005) Hipperslev-Cox L (2012)	Y Y Y								X X X	X X X		
QCancer (Males)	X X X X				X			X X	X X		X Image: Constraint of the second s	
QCancer (Females)	X X					<u> </u>		X X	X		X I I I I I I I I I I I I I I I I I I I	
Johansen, J S (2015)												
CEA and Serum YKL-40 Model excluding patients with comorbidity		YKL-40 YKL-40				+						
Koning, N R (2015)	X X			X		 		Х				
кор, к (2015) Кор, R (2016)												
Law, C W (2014)					v l			~ ~ ~				x
Colonic neoplasia model	^ ^ X X X				X		x	Χ	A X X X		^ ^ ^ ^ _	∧
Liu C (2021) Marshall. T (2011)		SEPT9, SDC2, and SFRP2										
Birmingham Bristol Equation								<u>х х</u>	x x x x			
CAPER score 3 Interpretations of NICE guidance +						 						
Norrelund & Norrelund (1996)	X								X IIIII			
Payne J (1983) Rai (2008)												
Rasmussen (2017)	X X		X I I I I I I I I I I I I I I I I I I I									ccfn containing 5-methylcytosine DNA (5 mC)
Rasmussen, L (2021) CRC model		ANGPT2, ARG1, ICOSLG, IL8, CSF-1, Gal-9				+						
CRC/HRA model		ICOSLG, IL8										
Weighted numerical score + (SELVA score)	X X .			X X				х	X X X X X	X X	X X X X X	
Malignancy risk score from Patient Questionnaire +												
Simpkins S (2017)												
Age $>$ 40, weight loss and abdo pain Age $>$ 50 and rectal bleeding	X							X X	X			
Age > 60 and anaemia	x x											
Age > 60 and change in bowel habit Age < 50, rectal bleeding and abdominal pain	X							X X	X I I I I I I I I I I I I I I I I I I I			
Age < 50, rectal bleeding and change in bowel habit	X A A A A A A A A A A A A A A A A A A A							X	X Y			
Age < 50, rectal bleeding and anaemia								X				
Any of NICE criteria Stapley S (2017)												
Rectal bleeding & CIBH								Х	X IIIII			
Rectal bleeding & Diarrhoea Rectal bleeding & Abdominal pain								X X				
Rectal bleeding & MCV								<u>х</u>				
Rectal bleeding & platelets								× × ×				
Rectal bleeding & Abnormal liver function								X X			Х Х	
Rectal bleeding & Inflammatory markers		X						x				
CIBH & Diarrhoea CIBH & Abdominal pain								X	X X X			
CIBH & MCV									X IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			
CIBH & platelets		X A A A A A A A A A A A A A A A A A A A							X I I I I I I I I I I I I I I I I I I I			
CIBH & Abnormal Liver function									X I I I I I I I I I I I I I I I I I I I		X X	
CIBH & Inflammatory markers		Х							X IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			
Diarrhoea & Abdominal pain Diarrhoea & MCV						+ +		X				
Diarrhoea & platelets						F						
Diarmoea & Abnormal liver function Diarrhoea & Hb												
Diarrhoea & Inflammatory markers		Х						~ ~ ~				
Abdominal pain & WBC		x				<u>† </u>		X				
Abdominal pain & platelets Abdominal pain & Abnormal liver function						+		X				
Abdominal pain & Hb						†		X				
Abdominal pain & Inflammatory markers MCV & WBC		x x				+		X				
MCV & Platelets						ļ						
MCV & Hb												
MCV & Inflammatory markers		X										
WBC & Abnormal liver function		X										
WBC & Hb WBC & Inflammatory markers		X X V										
Platelets & Abnormal liver function												
Platelets & Hb Platelets & Inflammatory markers		v										
Abnormal liver function & Hb												
Abnormal liver function & Inflammatory markers Hb & Inflammatory markers		X				+ +						
Steffen (2014)					X X	 						
Thompson, M (2017) Wells (2014)						+		X X				
Male	x x x				X X X	X	X X					
Female Whitfield, A (2018)	x x x x x	x x			X X	X	X	X				
Wilhelmson, M (2018)												
2 models for CKC Model 1	x x	X Pepsinogen 2, HE4, CyFra21-1 X (hs-CRP)	X									
Model 2 Wilhelmson M (2017)		X HE4, CyFra21-1										
2 models for CRC (AUROC for CRC and CRC/HRA)												
Model 1 - 4 biomarkers Model 2 - 8 biomarkers		X CyFra21-1 Calectin-3 TIMP-1 X (hs-CRP)										
Wilson, S (2012)		X MMP-9 X (IIS-CKP)		X I I I I I I I I I I I I I I I I I I I	X X	1			X X			

Leucocyte adherance inhibition Х **|**_____ _____

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Supplementary file 4: Excluded studies at full text screening with reason

Reference	Reason for exclusion
Kinar, Y.; Kalkstein, N.; Akiva, P.; Levin, B.; Half,	Wrong population
E. E.; Goldshtein, I.; Chodick, G.; Shalev, V. 2016	
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for detection of colorectal cancer in primary care by	
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retrospective study. Journal of the American Medical	
Informatics Association 23:5	
Hamilton, W.; Green, T.; Martins, T.; Elliott, K.;	Wrong study design
Rubin, G.; Macleod, U. 2013 Evaluation of risk	
assessment tools for suspected cancer in general	
practice: a cohort study. British Journal of General	
Practice 63	
Anonymous 2017 Assessment tool accurately	Wrong publication type
predicts risk of bowel disease. Practice Nurse 4/:4	TT7 111
Abdullah, M. and Simadibrata, M. and Syam, A. F.	Wrong publication type
and Wijayadi, I. and Fauzi, A. and Santi, A. and	
Kani, A. A. 2010 The accuracy of Fecal	
immunochemical fest in early detection of colorectal	
2	
Adams K and Sideris M and Papagrigoriadis S	Wrong publication type
2014 Can we make 'Straight to Test' decisions in	wrong publication type
Two Week Wait (2WW) patients with the help of an	
Artificial Neural Network (ANN)? Colorectal	
Disease 2	
Adelstein, B. and Macaskill, P. and Turner, R. M.	Wrong publication type
and Katelaris, P. H. and Irwig, L. 2014 How well do	
common symptoms predict colorectal cancer? Asia-	
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Turner, R. M. and Chan, S. and Katelaris, P. H. 2009	
Can bowel symptoms be used to identify patients	
with colorectal cancer? Journal of Gastroenterology	
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Ain, Q. and Widlak, M. and McCullougn, P. and	wrong publication type
Bajwa, A. and Evans, C. and Arasaradnam, K. P.	
diagnose significant disease in patients with lower	
gastrointestinal symptoms - does NICE NG 12 and	
DG 30 FIT all? Colorectal Disease 20	
Akolkar, D. B. and Patil, D. and Fulmali, P. et al.	Wrong publication type
2021 Analytical and clinical validation of the	inteng puoneation type
TruCheck platform for diagnostic triaging of	
symptomatic cases suspected of colorectal cancer.	
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Alatise, O. I. and Bello, I. S. and Komolafe, A. O.	Wrong publication type
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bleeding in a low-income country. Journal of Clinical	
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prioritization of referrals to colonscopy-A	
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Arroll B 2011 The diagnostic value of symptoms	Wrong publication type
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of General Practice 61	
Astin, M. and Griffin, T. and Neal, R. D. and Rose,	Wrong publication type
P. and Hamilton, W. 2011 The diagnostic value of	
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Auge Fradera, J. M. and Roset, A. and Escudero, J.	Wrong publication type
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2017 Using fecal immunochemical test for	
hemoglobin in a quantitative way for the diagnosis of	
Bai V and Xu C and Zou D W and Gao L and	Wrong analysis
Li Z S 2011 Diagnostic accuracy of features	wrong anarysis
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Chapman, C. J. and Morling, J. R. and Simpson, J.	
A. and Humes, D. J. and Banerjea, A. 2021	
Quantitative FTT stratification is superior to NICE	
referral criteria NG12 in a nign-risk colorectal cancer	
Bailey I A and Weller I and Chapman C I and	Wrong study design
Ford, A. and Hardy, K. and Oliver, S. and Morling, J.	wiong study design
R. and Simpson, J. A. and Humes, D. J. and	
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Renninson I and Thomas P and Walter F M and	
Warren, S. and Hamilton, W. 2021 Diagnostic	
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patients with low-risk symptoms of colorectal cancer	
in primary care: an evaluation in the South West of	
England. British Journal of Cancer 124	
Barraclough, K. 2010 The predictive value of cancer	Wrong publication type
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Tests, and New Oral Anticoagulants. American	
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Bjerregaard, N. C. and Tottrup, A. and Sorensen, H.	Wrong analysis
T. and Laurberg, S. 2007 Diagnostic value of self-	
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test. Clinical Epidemiology 1	
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between Faecal Tumour M2 Pyruvate Kinase and	
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primary healthcare United European	
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Cubiella I and Digby I and Rodriguez-Moranta F	Wrong publication type
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external validation of a simple predictive model for	
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PRISMA 2020 Checklist

Section and Topic	ltem #	Checklist item	Location where item is reported
TITLE			
Title	1	Identify the report as a systematic review.	Page 1
ABSTRACT			
Abstract	2	See the PRISMA 2020 for Abstracts checklist.	Page 2
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of existing knowledge.	Page 3
Objectives	4	Provide an explicit statement of the objective(s) or question(s) the review addresses.	Page 3
METHODS			
Eligibility criteria	5	Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses.	Page 4
Information sources	6	Specify all databases, registers, websites, organisations, reference lists and other sources searched or consulted to identify studies. Specify the date when each source was last searched or consulted.	Page 4
Search strategy	7	Present the full search strategies for all databases, registers and websites, including any filters and limits used.	Supplement 2
Selection process	8	Specify the methods used to decide whether a study met the inclusion criteria of the review, including how many reviewers screened each record and each report retrieved, whether they worked independently, and if applicable, details of automation tools used in the process.	Page 4
Data collection process	9	Specify the methods used to collect data from reports, including how many reviewers collected data from each report, whether they worked independently, any processes for obtaining or confirming data from study investigators, and if applicable, details of automation tools used in the process.	Page 4
Data items	10a	List and define all outcomes for which data were sought. Specify whether all results that were compatible with each outcome domain in each study were sought (e.g. for all measures, time points, analyses), and if not, the methods used to decide which results to collect.	Page 4
	10b	List and define all other variables for which data were sought (e.g. participant and intervention characteristics, funding sources). Describe any assumptions made about any missing or unclear information.	Page 4
Study risk of bias assessment	11	Specify the methods used to assess risk of bias in the included studies, including details of the tool(s) used, how many reviewers assessed each study and whether they worked independently, and if applicable, details of automation tools used in the process.	Page 4
Effect measures	12	Specify for each outcome the effect measure(s) (e.g. risk ratio, mean difference) used in the synthesis or presentation of results.	Page 4/5
Synthesis methods	13a	Describe the processes used to decide which studies were eligible for each synthesis (e.g. tabulating the study intervention characteristics and comparing against the planned groups for each synthesis (item #5)).	Page 4/5
	13b	Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.	Page 4/5
	13c	Describe any methods used to tabulate or visually display results of individual studies and syntheses.	Page 4/5
	13d	Describe any methods used to synthesize results and provide a rationale for the choice(s). If meta-analysis was performed, describe the model(s), method(s) to identify the presence and extent of statistical heterogeneity, and software package(s) used.	Page 4/5
	13e	Describe any methods used to explore possible causes of heterogeneity among study results (e.g. subgroup analysis, meta-regression).	NA
	13f	Describe any sensitivity analyses conducted to assess robustness of the synthesized results.	NA
Reporting bias assessment	14	Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).	NA
Certainty assessment	15	Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.	NA



Section and Topic	ltem #	Checklist item	Location where item is reported
RESULTS			
Study selection	16a	Describe the results of the search and selection process, from the number of records identified in the search to the number of studies included in the review, ideally using a flow diagram.	Page 5
	16b	Cite studies that might appear to meet the inclusion criteria, but which were excluded, and explain why they were excluded.	NA
Study characteristics	17	Cite each included study and present its characteristics.	Page 5 table 1
Risk of bias in studies	18	Present assessments of risk of bias for each included study.	Figure 2
Results of individual studies	19	For all outcomes, present, for each study: (a) summary statistics for each group (where appropriate) and (b) an effect estimate and its precision (e.g. confidence/credible interval), ideally using structured tables or plots.	Table 2/3 Figure 3/4
Results of	20a	For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.	Pages 5 - 10
syntheses	20b	Present results of all statistical syntheses conducted. If meta-analysis was done, present for each the summary estimate and its precision (e.g. confidence/credible interval) and measures of statistical heterogeneity. If comparing groups, describe the direction of the effect.	NA
	20c	Present results of all investigations of possible causes of heterogeneity among study results.	NA
	20d	Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results.	NA
Reporting biases	21	Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed.	NA
Certainty of evidence	22	Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed.	NA
DISCUSSION			
Discussion	23a	Provide a general interpretation of the results in the context of other evidence.	Page 10/11
	23b	Discuss any limitations of the evidence included in the review.	Page 13
	23c	Discuss any limitations of the review processes used.	Page 13
	23d	Discuss implications of the results for practice, policy, and future research.	Page 11/12
OTHER INFORMA	TION		
Registration and	24a	Provide registration information for the review, including register name and registration number, or state that the review was not registered.	Page 4
protocol	24b	Indicate where the review protocol can be accessed, or state that a protocol was not prepared.	Page 4
	24c	Describe and explain any amendments to information provided at registration or in the protocol.	Page 4
Support	25	Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review.	Page 14
Competing interests	26	Declare any competing interests of review authors.	Page 14
Availability of data, code and other materials	27	Report which of the following are publicly available and where they can be found: template data collection forms; data extracted from included studies; data used for all analyses; analytic code; any other materials used in the review.	Page 14

From: Page MJ, McKenzie JE, Bossuyt PM, Boutron I, Hoffmann TC, Mulrow CD, et al. The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. BMJ 2021;372:n71. doi: 10.1136/bmj.n71