

Colorectal Cancer Screening

Average-risk and family-history-based screening, test performance, and quality metrics for CRC screening.

GRADE Strong Rec Conditional Rec

1 Who & When to Screen

STATEMENT	GRADE
Screen average-risk individuals ages 50–75 to reduce advanced adenoma, CRC incidence, and CRC mortality	1 · Strong
Screen average-risk individuals ages 45–49 for the same benefit	2 · Conditional
Continuing screening beyond age 75 should be individualized	2 · Conditional

2 Screening Modalities & Intervals

STATEMENT	GRADE
Colonoscopy and FIT as the primary screening modalities	1 · Strong
If unable/unwilling to have colonoscopy or FIT, consider: flex sigmoidoscopy, mtsDNA, CT colonography, or colon capsule	2 · Conditional
Against Septin 9 for CRC screening	2 · Conditional
Intervals: FIT every 1y; colonoscopy every 10y	1 · Strong
Intervals: mtsDNA every 3y; flex sigmoidoscopy every 5–10y; CT colonography every 5y; colon capsule every 5y	2 · Conditional

3 Screening Test Performance

TEST	PERFORMANCE	KEY TRADE-OFF
FIT	79% sens / 94% spec for CRC	Annual; low sensitivity for advanced adenomas
mtsDNA	92% sens / 87% spec for CRC	Better for advanced adenomas/SSLs; more expensive; overtesting concern
Colonoscopy	100% CRC detection; PCCRC 3%–9%	Diagnostic + therapeutic; bowel prep/sedation; complication 4–8/10,000
Flex sigmoidoscopy	90%–100% sens for distal colon CRC	Misses proximal lesions; enema prep
CT colonography	90%–100% for CRC	Poor sensitivity for flat/serrated lesions; extracolonic follow-up
Colon capsule	81% sens / 93% spec for polyps ≥6mm	Bowel prep required; positive results need colonoscopy

4 Family History-Based Screening

STATEMENT	GRADE
1 FDR with CRC/advanced polyp < 60y, or ≥2 FDR any age: start colonoscopy at 40 (or 10y before youngest affected relative); repeat every 5y	2 · Conditional
Consider genetic evaluation with higher familial burden (more relatives and/or younger onset)	2 · Conditional
1 FDR with CRC/advanced polyp ≥60y: start at 40 (or 10y before), then resume average-risk intervals	2 · Conditional
1 SDR with CRC/advanced polyp: follow average-risk screening recommendations	2 · Conditional

5 Colonoscopy Quality Metrics

STATEMENT	GRADE
Endoscopists should measure cecal intubation rate, adenoma detection rate (ADR), and withdrawal time	1 · Strong
Colonoscopists with ADR <25% should undertake remedial training	2 · Conditional
Spend at least 6 minutes inspecting mucosa during withdrawal	1 · Strong
Achieve a cecal intubation rate of at least 95% in screening subjects	1 · Strong

6 Aspirin & Adherence Strategies

STATEMENT	GRADE
Low-dose aspirin in ages 50–69 with ≥10% 10-year CV risk, not at increased bleeding risk, willing to take ≥10 years, to reduce CRC risk	2 · Conditional
Against aspirin as a substitute for CRC screening	1 · Strong
Organized screening programs improve adherence vs opportunistic screening	1 · Strong
Adherence strategies: patient navigation, reminders, clinician interventions, provider recommendations, decision support tools	2 · Conditional
Positive-test follow-up adherence: mail/phone reminders, patient navigation, provider interventions	2 · Conditional