FIT EWG summary

WEO FIT for Screening Expert Working Group
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FIT EWG; Summary

• FIT analytical standardization
  – IFCC group set up to address analytical issues including standardization and quality assurance schemes

• Impact of hemoglobin variants on FIT detection
  – Tested approx 20 Hb variants on 4 FIT analyzers
  – The majority of Hb variants do not impact FIT results

• The risk of upper GI cancer in FIT-positives with negative colonoscopy
  – 1 per 1367 subjects
  – Similar to risk in FIT-negatives and FIT-positives with positive colonoscopy
  – Upper GI endoscopy not recommended in FIT-positives with neg colonoscopy
FIT EWG; Summary

• Colonoscopy vs FIT for surveillance after removal of low-risk adenomas
  – Participation 3x higher with FIT surveillance
  – Only 1 CRC detected <5 yr interval in 2.133 subjects

• FIT in combination with a plasma protein algorithm
  – Develop algorithm for colonoscopy referral
  – Based on age, FIT level, and plasma protein profile, ctDNA, nucleosomes, metabolomes
  – Work in progress

• First and second round FIT in The Netherlands
  – 1.4 million subjects aged 55 – 75 years
  – Participation 73%
  – Positivity rate 6.1, resp 4.5%
  – PPV for advanced neoplasia 55, resp 42%
  – 67% of CRCs stage I-II disease
  – 1 fatal complication in 47,000 colonoscopies