CRC screening
State of the art in Western Europe

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Conflicts of interest

• None
CRC incidence

- 447,000 new cases of CRC in the EU in 2012 (13% of all cancers)
- Overall incidence rate: 68 per 100,000 population.

European Parliament resolution May 2010

Promote the adoption of CRC prevention programmes by any means

Encourage member states to allocate further resources to primary CRC prevention and early diagnosis through screening
Screening programs in the EU

Organized screening; (IARC)
• Explicit policy with specified age, screening method and interval
• Defined target population
• Team responsible for implementation, care and FU
• Quality assurance/ monitoring

• IT system/ dataware house/ cancer registry

International agency for research on cancer 2010, Schreuders Gut 2015,
Opportunistic screening;
• No invitation system/ no control system
• IT system/ dataware house missing

International agency for research on cancer 2010, Schreuders Gut 2015,
Schreuders Gut 2015 (WEO),
No population based screening programs

All countries in western Europe do have a CRC screening program!

Rolled out organised screening programs

Finland, France, UK

Started with organised screening programs

Belgium, Netherlands, Denmark, Ireland, Italy, Malta, Cyprus, Spain, Luxembourg, Iceland*

Schreuders Gut 2015, Altobelli WJG 2016, White book 2014,
Opportunistic screening programs

Austria, Germany, Greece, Switzerland

Pilot screening programs

Norway, Portugal, Sweden (regional)
Montenegro until 2011, Switzerland

Population based FIT screening program in Luxembourg; first FITs have been sent out; first colonoscopies November 1st 2016!

Personal communication
Iceland

Decision to adopt CRC screening programme in 2008

Postponed due to the economic crisis

Due to start with biannual FIT

Altobelli WJG 2016
France (2003)

Fully implemented national program in 2009 with gFOBT

Invitation via GP
Uptake 40% (low despite campaign)

Open cohort study among 200,000 people during 4 rounds of gFOBT; Uptake decreased across all rounds from 53% - 47%

Comparative pilot study within the BCSP; 41,000 FIT instead of gFOBT

- Uptake increased by 7% (59% - 66%)
- Uptake among non-responders increased by 50% (12.5% - 24%)
- PR 7.8% vs 1.7%
- Detection of cancer increased 2-fold and detection of advanced adenomas 5-fold

United Kingdom

Moss Gut 2016
CRC incidence

- 447,000 new cases of CRC in the EU in 2012 (13% of all cancers)
- Overall incidence rate: 68 per 100,000 population.
- With the start of screening programs we will see an increase in incidence initially

Increase in CRC incidence

Number of CRC cases per birthcohort

www.iknl.nl 2016
CRC screening; proven effect on incidence

ITT 23%
PP 33%

Atkin Lancet 2010,
CRC mortality

• CRC is the second most common cause of cancer related death in Europe

• 215,000 cases in 2012 (12-13% of all cancer deaths)
28 per 100,000 population

• With screening programs we will see a shift in stage and on the long term in mortality

Shift in CRC stage

UK gFOBT program; 49% of screen-detected CRC pT1/T2N0

German colonoscopy screening program; 43% of screen-detected CRC pT1/T2N0

UK Colorectal Cancer Screening Pilot Group. BMJ 2004; Bokemeyer, Eur J Gastro&Hepatol 2009;
Conclusions

- CRC screening in all Western European countries
- Change in incidence and expected change in CRC related mortality
- Aim to have population based screening programs in the near future
- Adequate monitoring of the program and outcome
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Nationwide screening programme, but major disparities in uptake and provision (7-71% access)

Free of charge

Three screening methods; quality assurance

Italy (2003)
Netherlands (2014)

Nationwide screening program

Biennial FIT (Cut-off 88 ng/ml = 15 ug Hb/g feces)

High quality (cancer) registry

Lack of specialist endoscopy capacity - increase of cut-off
Operates on voluntary registers, lack a formal policy or invitation to participate

Annual FOBT > 50yr
Coloscopy every 10 yr > 55 yr
Biennial FOBT > 55 yr
Payments are reimbursed by health insurance
Uptake; 50% of females and 30% of males
Endoscopist > 200 procedures

White book UEG 2014