



Military University Hospital  
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Department of Gastroenterology



# Screening or diagnostic colonoscopy?

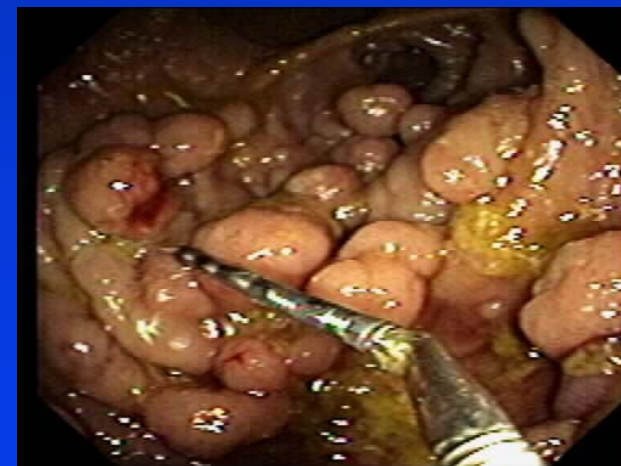
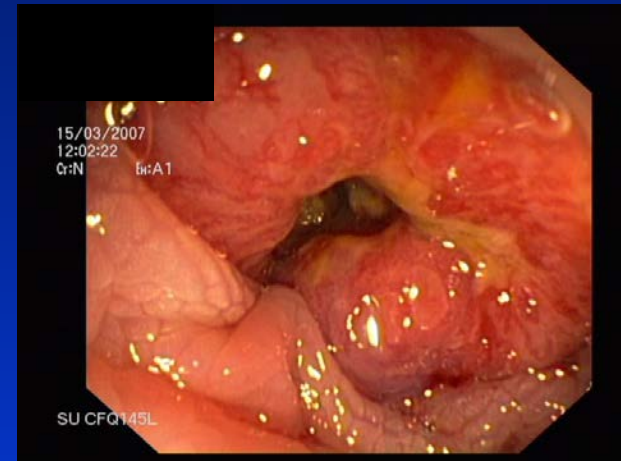
## Secondary prevention of CRC in hands of gastroenterologist

S. Suchanek, O. Majek, L. Dusek, M. Zavoral

European Colorectal Cancer Days II: Brno 2013 – Prevention and  
Screening 26 – 27 April 2013, Brno

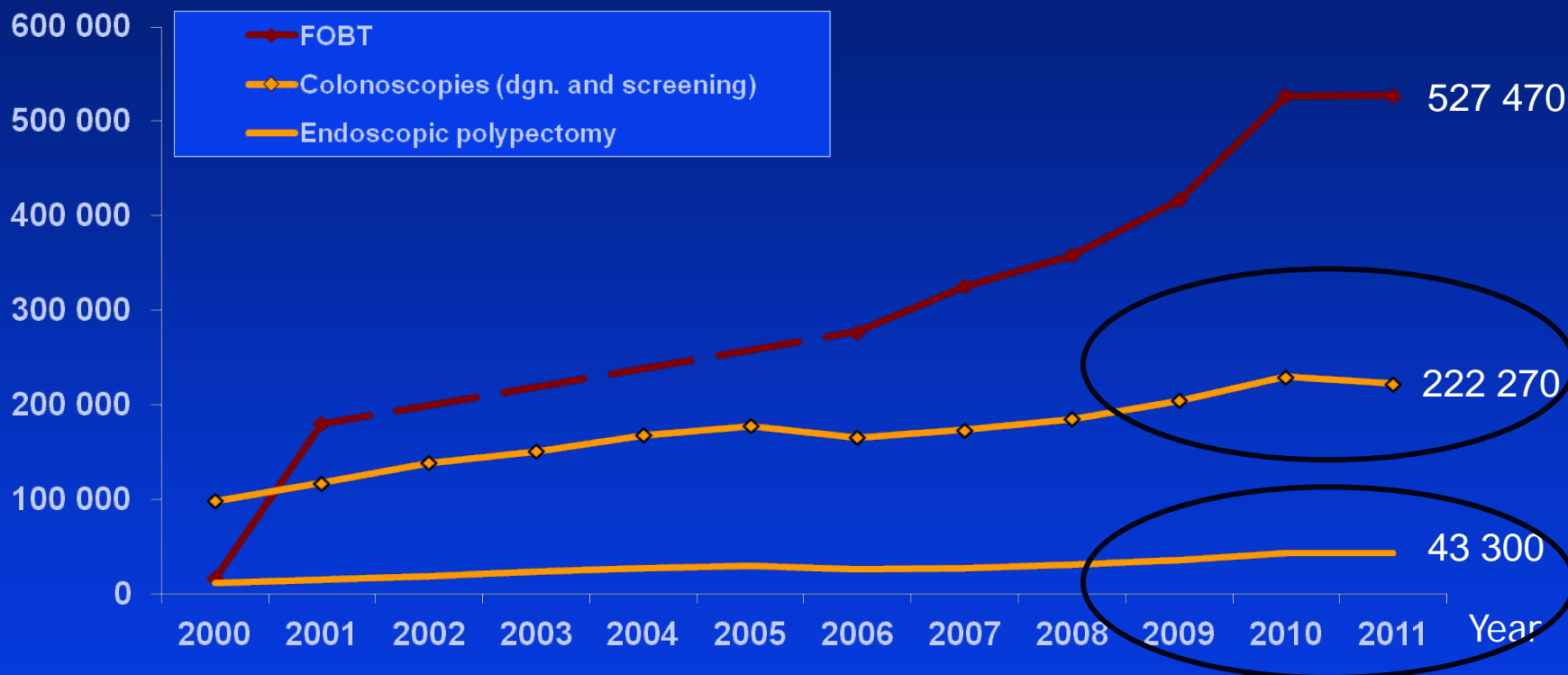
# Role of colonoscopy

- Diagnostic
- Therapeutic
- Preventive
  - FOBT+ colonoscopy
  - Screening colonoscopy
    - (age  $\geq 55$ )
  - Follow-up colonoscopy



# Timeframe of FOBT and colonoscopy procedures

Number of individuals with procedure



- number of all colonoscopies is rising continuously
- therapeutic colonoscopies: 20%

# Basic results of colonoscopy examinations

Year	Patients with colonoscopy	Patients with detected adenoma	Proportion	Patients with detected cancer	Proportion
2006	5,334	1,578	29.6%	335	6.3%
2007	5,679	1,635	28.8%	337	5.9%
2008	7,457	2,367	31.7%	446	6.0%
2009	13,074	4,123	31.5%	623	4.8%
2010	22,727	7,311	32.2%	872	3.8%
2011	24,702	8,294	33.6%	775	3.1%
2012	25,592	8,926	34.9%	805	3.1%
2013*	3,311	1,137	34.3%	84	2.5%
<b>Total</b>	<b>107,876</b>	<b>35,371</b>	<b>32.8%</b>	<b>4,277</b>	<b>4.0%</b>

- numbers of preventive colonoscopies are rising continuously

\* Preliminary results - April 2013

# Preventive colonoscopies

	2008	2011	Difference
Colonoscopies total	185 251	222 270	37 019
Preventive colonoscopies	7 457	25 592	18 127
Ratio	4%	12%	

- preventive colonoscopies increase:
  - 2008 – 2011: 3.5 times
- preventive colonoscopies in 2011:
  - 12% from all colonoscopies
  - colonoscopy indication must be revised

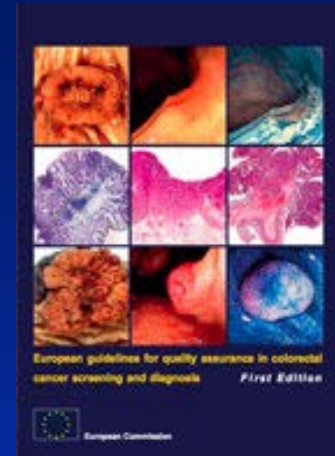
# FOBT+ colonoscopies waiting time

Year	Preventive colonoscopies	Average waiting time (months)
2006	5,335	0.85
2007	5,678	0.91
2008	7,457	0.95
2009	11,710	1.04
2010	18,324	1.13
2011	20,131	1.22

- growing number of FOBTs results in increase of FOBT+ colonoscopies waiting times: 6 weeks

# Follow-up colonoscopy

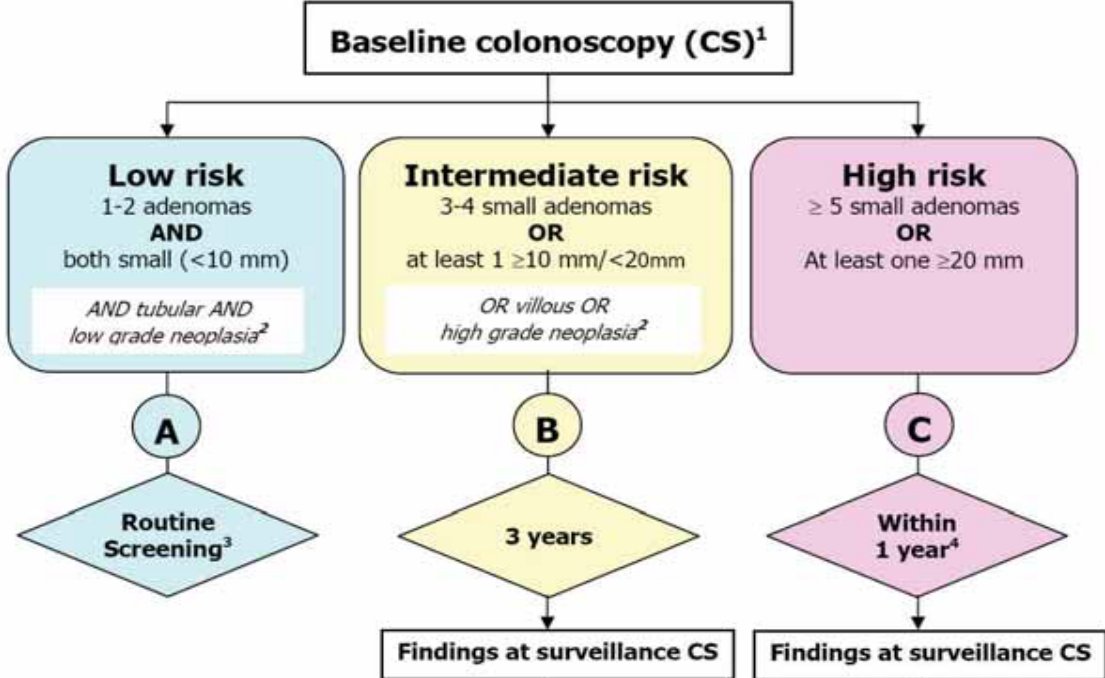
- 20% of all indications in patients  $\geq 55$  years
- adequate intervals necessary (patient, economy)
- recommendations:
  - US Multi Society Task Force on CRC (USA)
  - European Quality Assurance un CRC Screening and Diagnosis (EU)
- risk groups settings:
  - low risk: 1-2 adenomas  $< 10\text{mm}$
  - high risk  $\geq 3$  adenomas or adenoma  $\geq 10\text{mm}$  or advanced histological features (HGD, villous structure)
- follow-up intervals:
  - low risk: 5-10 years (USA), regular screening (EU)
  - high risk: 3 years







COLONOSCOPIC SURVEILLANCE FOLLOWING ADENOMA REMOVAL (EU 2010)



Notes:

- <sup>1</sup> Baseline colonoscopy must be complete in order to accurately assess risk.
- <sup>2</sup> Optional additional criteria
- <sup>3</sup> Other consideration: age, family history, accuracy and completeness of examination
- <sup>4</sup> Clearing colonoscopy to check for missed lesions

<ul style="list-style-type: none"> <li>One negative exam → 5 yearly</li> <li>Two consecutive negative exams → Routine Screening<sup>3</sup></li> <li>Low or intermediate risk adenomas → B</li> <li>High risk adenomas → C</li> </ul>	<ul style="list-style-type: none"> <li>Negative, low or intermediate risk adenomas → 3 yearly</li> <li>Two consecutive negative exams → 5 yearly</li> <li>High risk adenomas → C</li> </ul>
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# Follow-up intervals (1)

Colonoscopy findings	Follow-up interval
No polyp	10 let
Hyperplastic left-sided polyp	10 let
1-2 tubular adenomas (LGD) < 10mm	5-10 let
3 and more tubular adenomas (LGD)	3 roky
<b>Tubular adenomas <math>\geq</math> 10mm</b>	3 roky
Villous adenomas (> 25%)	3 roky
Adenomas with HGD	3 roky
Piece meal resection	1 rok
Carcinoma	1 rok
Serrated adenoma – polyposis	1 rok
Serrated adenom – dysplasia/ $\geq$ 10mm	3 roky
Serrated adenom – no dysplasia/ < 10mm	5 let

# Follow-up intervals (2)

<b>CRC family history</b>	
<b>1 first degree relative &lt; 50 let</b> <b>2 firsts degree relatives of any age</b> <b>Both parents involvement</b> <b>Descendant involvement</b>	<b>Screening colonoscopy in age of 40 or 10 years prior the relative illness</b>  <b>Follow-up intervals of 3-5 years even if the colonoscopy findings are negative</b>
<b>LYNCH SYNDROM, FAP, AFAP, MYH POLYPOSIS, IBD</b>	
<b>Special follow-up programs</b>	

# Conclusion

- Adequate colonoscopy indications are absolutely necessary from the point of medical, forensic and economical view
- There is remarkable increase of colonoscopies performed in the Czech Republic
- The follow-up intervals should be kept as recommended