



#### NATIONAL COLORECTAL CANCER SCREENING PROGRAMME IN SLOVENIA

## **The Svit Program**

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#### **Colorectal Cancer Burden in 2008**

Source: Cancer Registry of Republic of Slovenia, 2011, Institute of Oncology Ljubljana

- 1,450 new cases (ICD C18-C20):
  - crude incidence rate 71,6 / 100.000
- 4th most common cancer in men (12.8%)
- 3rd most common cancer in women (11.0%)
- 2nd most common cause of cancer death: 758 deaths
- Very low percentage of colorectal cancer detected at an early stage:
  - colon 12.8% of cases
  - rectum 13.7% of cases

#### The Survival Rates of Colorectal Cancer Patients

Source: Survival of cancer patients 2001-2005, Cancer Registry of the Republic of Slovenia, 2009, Institute of Oncology, Ljubljana

Stage of colorectal cancer	Colon	Rectum
Stage I,II	95%	90%
Stage III	72%	60%
Stage IV	8%	8%
All stages	58%	52%

- The 5-year relative survival rate of colorectal cancer patients is increasing thanks to improved treatment
- · The cancer stage on diagnosis remains unchanged
- The mortality rate in colorectal cancer patients remains high compared to the European average

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### **The Svit Program**

- A nationally organized, centrally managed, populationbased CRC screening programme;
- Based on scientific evidence, quality standards and best practice experience;
- Adapted to local needs and capacities;
- Target population covered: 540,000 men and women aged between 50 and 69 with basic Health Insurance, invited every two years;
- · Based on
  - the immunochemical FOBT test with automatic readings
  - a screening colonoscopy for all FOBT positive cases
- Legally based, financially and professionally supported.

#### The Objectives of the Svit Program

- To reduce CRC patient mortality rate by 25 30%: 200 lives saved each year
- To reduce CRC incidence by 20%: 300 fewer colorectal cancer cases per year
- To increase the proportion of CRCs detected early from 14% to more than 50% in 10 years
- · To improve the quality of CRC patients life
- To reduce the financial burden of CRC treatment

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## **Svit Program Institutions and Executants**

- The Ministry of Health of the Republic of Slovenia
- The Health Insurance Institute of Slovenia
- Svit program operator: National Institute of Public Health of the Republic of Slovenia
- Program council
- Executants:
  - The Svit centre (Central laboratory, post terminal, call centre)
  - general practitioners
  - 56 authorized colonoscopists in 23 colonoscopy centres
  - 14 authorized pathohistologists in 4 pathohistology centres
- Health education centres, Institutes of health protection, NGOs
- Pharmacies
- Media
- Patients who have already participated in the program

# The Svit Program is Designed as a User-Friendly

- Personal invitations, reminders and information about all the procedures are provided to all participants; the process is usercentered
- There are short waiting times for all procedures
- A special emphasis on communication (a personal counseling call centre)
- Monitoring responses; sending re-invitations and reminders, personal conversations, strategies for encouragement
- Accessibility
- The program is free for all participants
- A user-friendly colon cleansing procedure prior to colonoscopy (Moviprep)
- People with special needs: special attention

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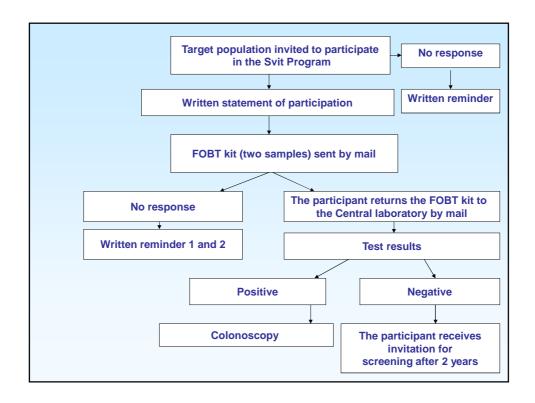
### **The Svit Program - National Implementation**

#### Method of inviting population:

- in on odd-numbered year, we invite population born in an odd year (e.g. in year 2009 we invited people born 1941, 1943, ...)
- in an even-numbered year, we invite population born in an even year(e.g. in 2010 we invited people born 1942, 1944, ...)

The first round of screening is completed (2009 – 2010): 17.04.2009 – 31.03.2011

The second round of screening (2011 – 2012): 04.01.2011 - 31.12.2012



## **Patients Excluded from the Svit Program**

- 1) Patients alredy involved in diagnostic or therapeutic colorectal cancer treatment.
- 2) Patients diagnosed with ulcerative colitis or Chron's disease.
- 3) Patients who previously had adenomas removed at colonoscopy.
- 4) Patients who have had a colonoscopy at any time in the past 3 years, providing that the results were normal. They will be invited to participate in the Svit Program again after two years.

The statement should be returned in each case!

#### **Stool Analysis Results**

#### If the FOBT is **NEGATIVE**



The results are sent to the participants within 5 days, general practitioner receives a list of tested patients once a year.



The person will be invited into the program again after 2 years.

If the FOBT is POSITIVE



The results are sent to the participant's general practitioner on the day of the analysis and to the participant a day later.



Additional testing is needed – colonoscopy.

If the FOBT kit is not returned within 1 or 2 months of the invitation, a reminder is sent!

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#### If the FOBT is Positive

The patient **visits the general practitioner within 14 days** after the FOBT analysis. The physician assesses whether the patient's health is appropriate for a colonoscopy, gives advice on how to prepare for the colonoscopy, fills out a referral form for a screening colonoscopy, signs a prescription for Moviprep and answers the patient's questions.



The patient (or a physician or a nurse) calls the Svit call centre, where an appointment is arranged for a colonoscopy in one of the authorized colonoscopy centres. **The colonoscopy date is within a month.** 



The patient gets free Moviprep medicine from the pharmacy for bowel preparation. **Preparation for the colonoscopy at home.** 

#### **Care for Quality**

- Entering data into the unified information system: central unit, colonoscopists, pathohistologists
- Unified education for colonoscopists and pathohistologists
  - supervision for one to two years
- Anonymous post-colonoscopy questionnaire on patient experience
- The active role of the general practitioners:
  - unified preparation of patients with a positive FOBT for the colonoscopy
  - feedback on the patients' participation in the program
  - the active involvement of non-responders in the program
- A network of info points in all health care centers
- Community nursing staff support the active involvement of nonresponders

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#### Response to Invitations Sent in the First Round (period from17.4.2009 to 31.3.2011)

Invitation sent	536,636 (95.43%)
Invitation received	532,954 (99.31%)
Signed statement of participation in the program returned (response to invitations sent)	300,659 (56.41%)
Exclusion criteria	36,361 (12.09%)
Participation refused	1,361 (0.26%)
FOBT kits for collecting stool samples sent	263,683 (87.97%)
Screened	245,107 (49.36%)
- adequately tested	<b>243,028</b> (a) 92.17% (b) 99.15%
• positive FOBT	15,113 (6.22%)
• negative FOBT	227,915 (93.78%)
- inadequate FOBT	2,079 (0.85%)

(a) Proportion of adequately tested among sent kits for collection of stool samples.(b) Proportion of adequately tested among screened.

## Response Rates in the Svit Program within Slovenian Health Regions, Comparison by Periods

Health regions	1.1 30.6.2010	1.7 31.12.2010	1.1 30.6.2011	1.7 31.12.2011
Celje	53.04%	62.43%	63.22%	52.81%
Koper	49.99%	62.79%	61.40%	48.08%
Kranj	57.84%	68.51%	67.44%	54.56%
Ljubljana	57.29%	66.91%	67.60%	54.04%
Maribor	47.97%	60.48%	66.27%	50.10%
Murska Sobota	47.44%	57.39%	63.57%	47.93%
Nova Gorica	57.28%	69.36%	66.65%	53.03%
Novo mesto	57.26%	68.05%	65.33%	55.49%
Ravne na Koroškem	55.08%	64.61%	67.59%	52.42%
SLOVENIA	53.93%	64.58%	65.79%	52.40%

The response rate to the first invitation in 2009 was 36.03%.

The response rate to the first invitation in 2010 was 56.99%.

The response rate to the first invitation in 2011 was 58.30%.

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## Colonoscopies Performed in the First Round (period from 17.4.2009 to 31.3.2011)

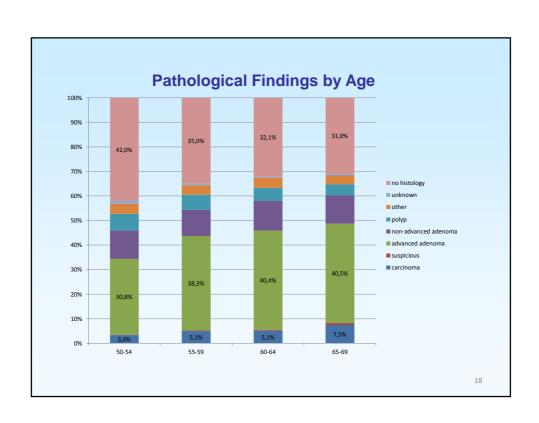
Colonoscopy procedures	Men	Women	Total
Screening	4,182	4,292	8,474 (60.84%)
Therapeutic*	3,445	1,701	5,146 (36.95%)
Incomplete	137	171	308 (2.21%)
Total	7,764	6,164	13,928

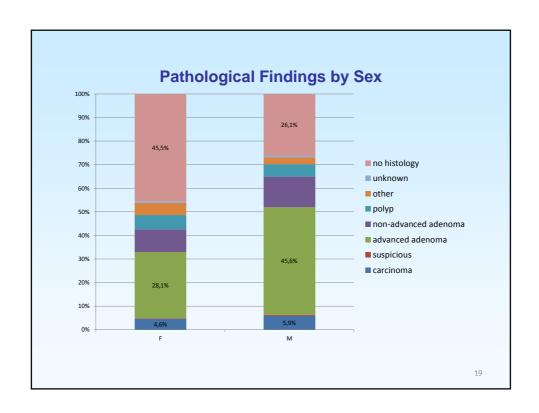
\*lesion ≥ 10 mm

## The Svit Program Findings – First Round

The (worst) pathological findings in patients who had colonoscopy:

•	carcinoma	726	5.3%
•	suspicious for carcinoma	57	0.7%
•	advanced adenoma	5145	37.8%
•	non-advanced adenoma	1563	11.5%
•	non-neoplastic polyp	765	5.6%
•	other non-neoplastic	533	3.9%
•	unknown	95	0.7%
•	no histology	4724	34.7%





## **Detected Cancers Stages**

TNM stage	N	%
I	163	33,50%
<b> </b> *	82	16,80%
II	103	21,10%
III-IV	139	28,50%
Total	487	100,00%

- Stage I: T1 or T2, N0, M0
- Stage I\*: T1 NX (no surgery)
- Stage II: T3 or T4, N0, M0
- Stage III IV: lymph node involvement or distant metastases

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