



CRC screening pilot in Romania - a presentation of the performance of the program

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- On behalf of Scientific Committee of ROCCAS I project



(EU funded POCCU project - code SMIS 128106)





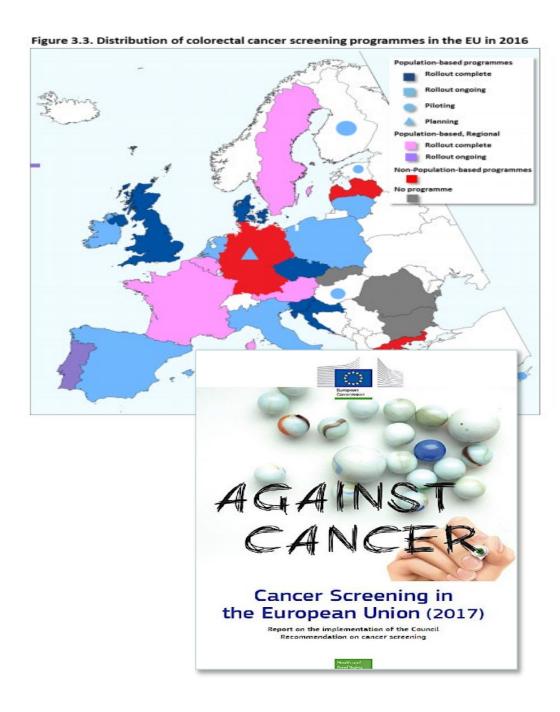
Agenda

- 1. Background of CRC screening in Romania
- 2. Framework of CRC screening implementation and development of the four regional pilot projects
- 3. Performance indicators for FIT testing (30 sept 2023)
- 4. Performance indicators for colonoscopy (30 aug 2023)
- 5. Final remarks



Background (2017)

- No screening program for CRC
- No national registry available for colon cancer
- No data recorded regarding opportunistic screening
- Qualitative FIT used mainly in private system (symptomatic patients?)
- Colonoscopy used for screening mainly in private system (population with higher social level)
- We had not established financial resources for national preventive and screening measures in CRC
 - Epidemiological local aspects unknown





METHODOLOGY

- Based on EU recommendations and with *technical assistance from a SRSS project* coordinated by EU experts from Italy, Netherlands, England, Poland, the pilot projects in Romania on colorectal cancer screening were effectively started in 2019.
- ROCCAS I project Development of the national framework for screening



- National methodology
- National screening register
- Training for GP's, endoscopists, pathologists
- IEC campaign for target population
- ROCCAS II projects 4 regional pilot screening programs
 - Estimated number of screened persons was 200.000 across 4 regions (South-West, South-Est, South, Bucharest-Ilfov) to be implemented by dec. 2023



ROCCAS I project





















Development of the screening national framework

Metodologia de screening pentru cancerul colorectal

Versiunea iunie 2020 -

Document elaborat în cadrul proiectului : ROCCAS Dezvoltarea și implementarea la nivel național a

INOVATIONS

- Family doctors are the central pieces involved in the screening process
- Risk questionnaire was used as a tool for screening stratifying prior to FIT
- The register provide standardized endoscopic and pathologic report

BARRIERS

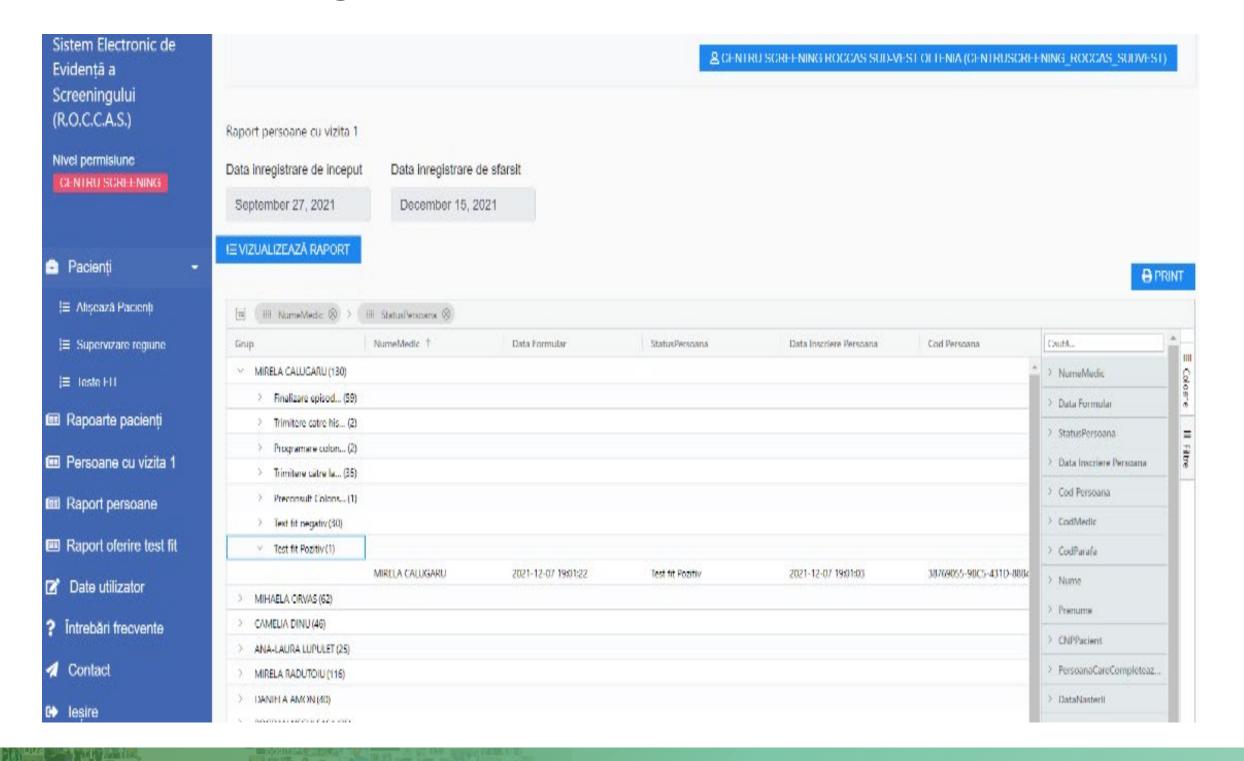
- > 50% of screened population has to be from vulnerable groups
- The projects has to complain not only to screening rules but also to EU funding rules
- COVID-19 generate a significant delay for all activities



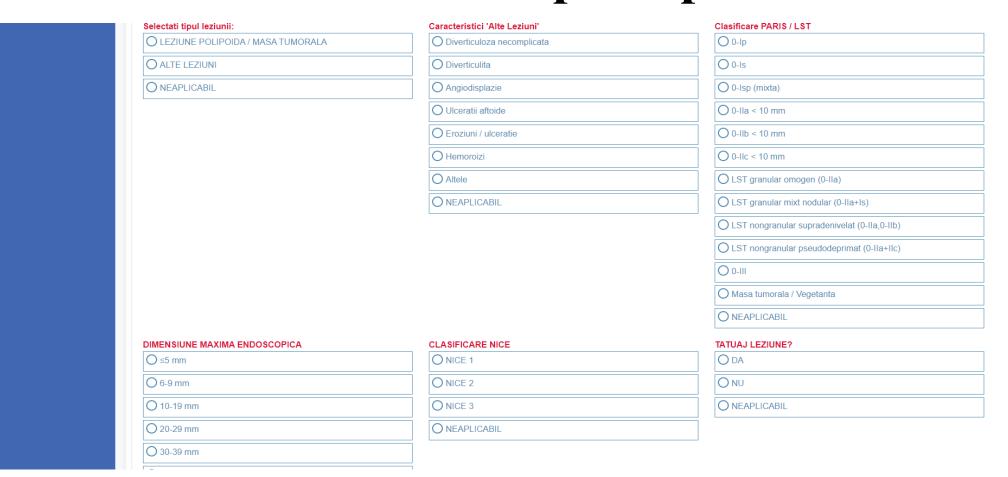
ROCCAS I National screening register

Unique platform for:

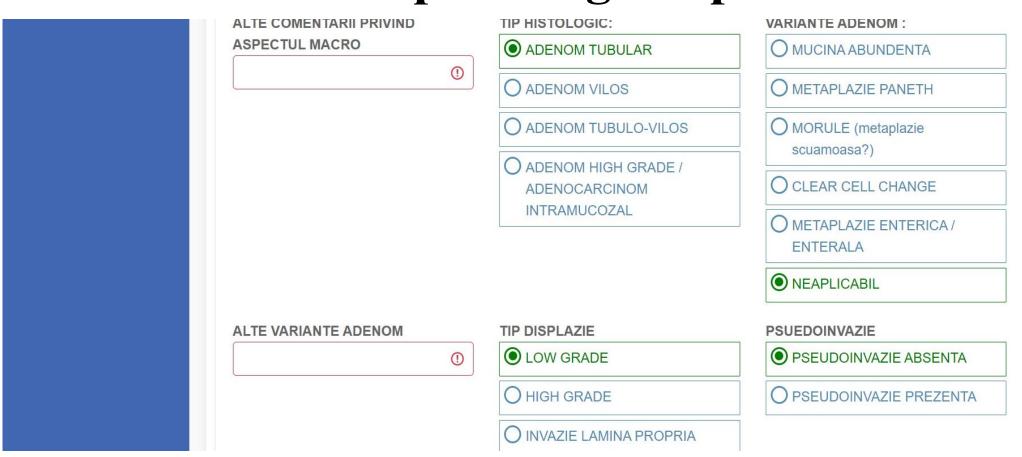
- NGO
- **GP**
- Colonoscopy laboratories
- Screening Centers



Standardized endoscopic report



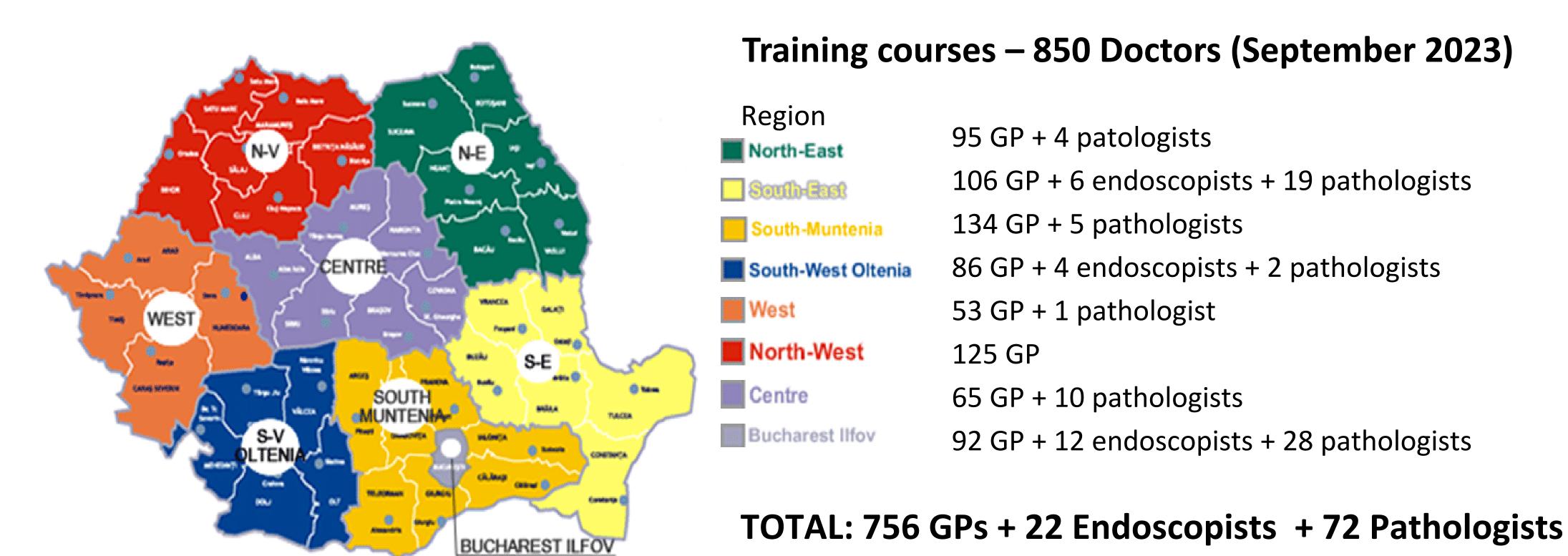
Standardized pathologic report





ROCCAS I National training

Organizing at national level training courses dedicated to doctors involved in the implementation of screening (family doctors, gastroenterologists, pathologists)





ROCCAS I National IEC campaign

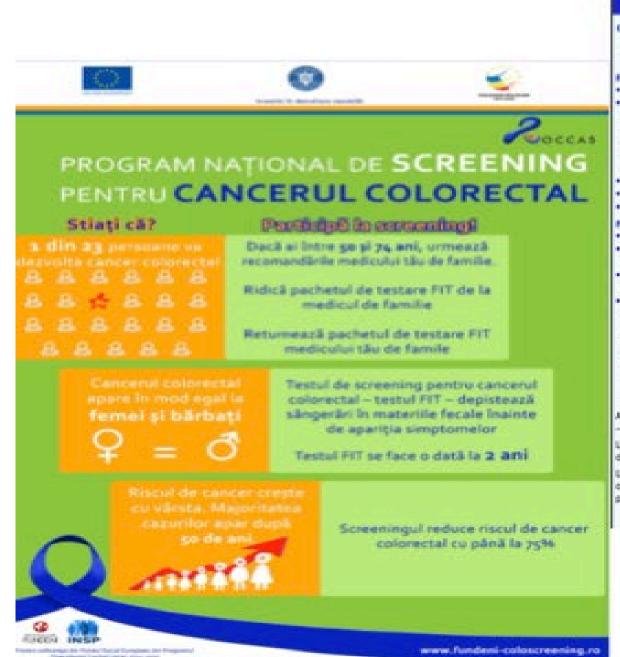


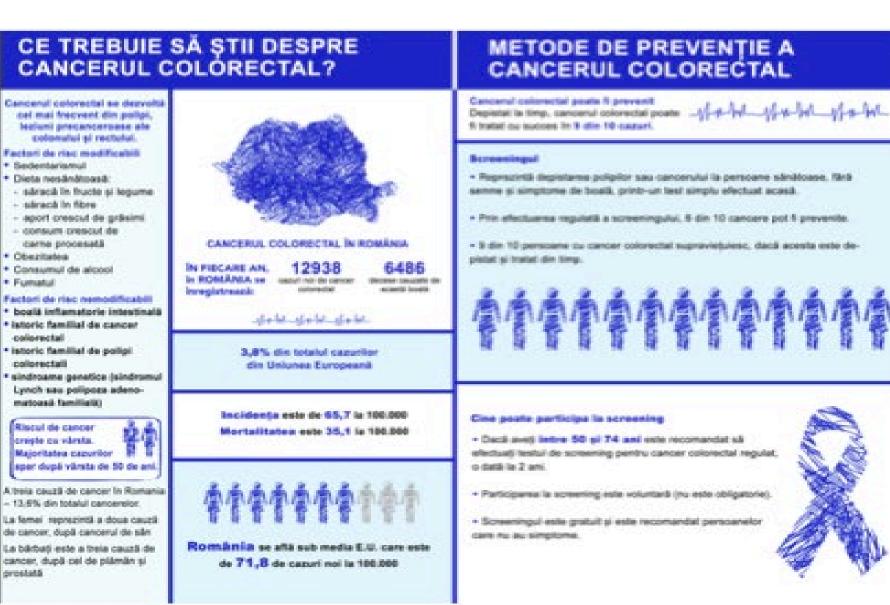




Proiect cofinanțat din Fondul Social European prin Programul Operațional Capital Uman 2014-2020

Materiale Informative destinate populatiei screenate



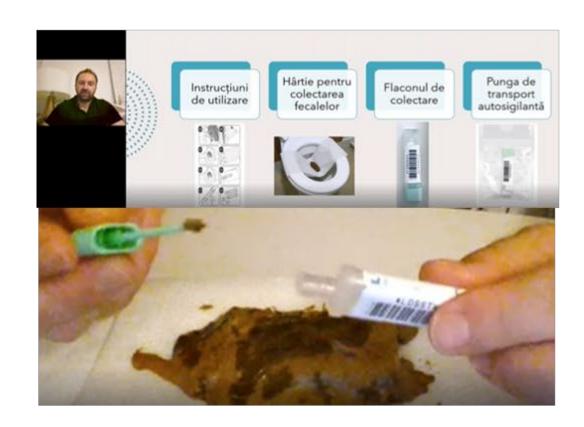


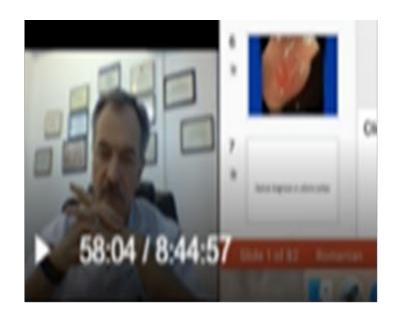




ROCCAS I NATIONAL TRAINING for GP's, endoscopists, pathologists













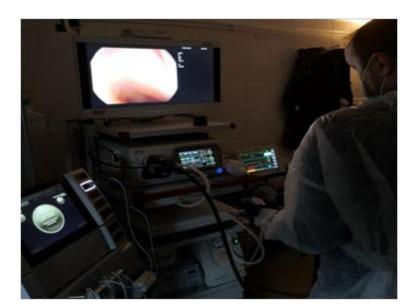


genetica dobindita datorita expunerii

Cancer familial cu anomalii genetice care se transmit ereditar (+/- evidente genetice

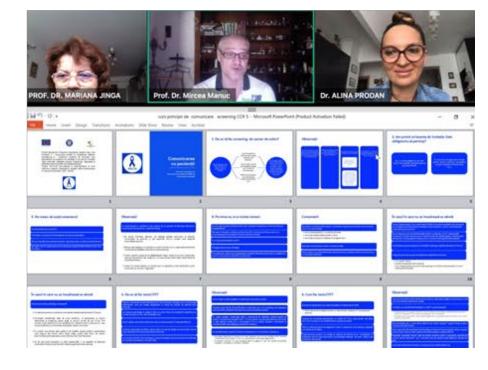
prelungite la carcinogeni

25-35%)









on-site / online / hybrid - trainings



PHASE II ROCCAS PROJECTS:

Financing: 5 mil euro/reg.

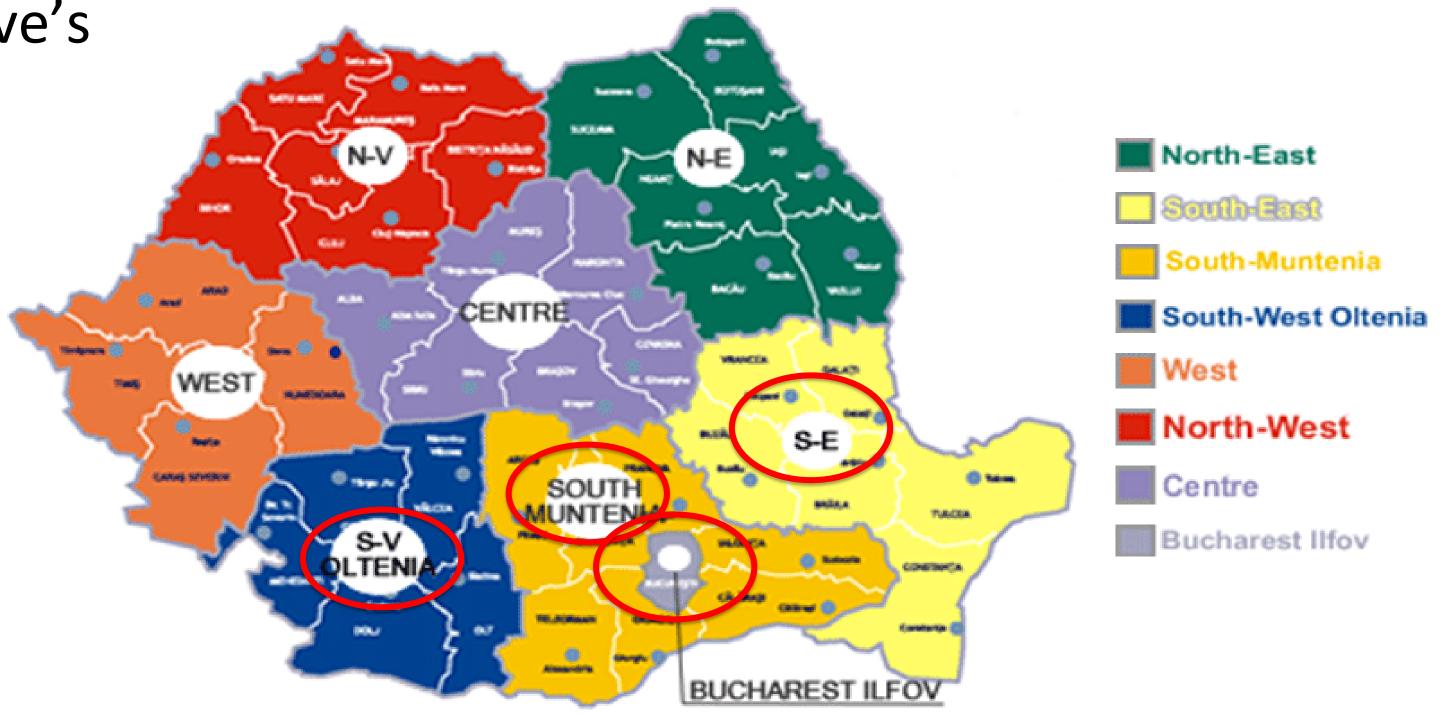
All the 4 regional projects are ongoing until December 2023

Estimate

- 50.000 quant FIT's / region

- Colonoscopy in positive's















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Prezentare proiect ROCCAS

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Prezentare proiect ROCCAS II Sud-Muntenia



<u>Titlul proiectului:</u> "Furnizarea serviciilor de sanatate din programele de preventie, depistare precoce, diagnostic si tratament precoce al leziunilor precanceroase colorectale – ROCCAS II – Sud-Muntenia"

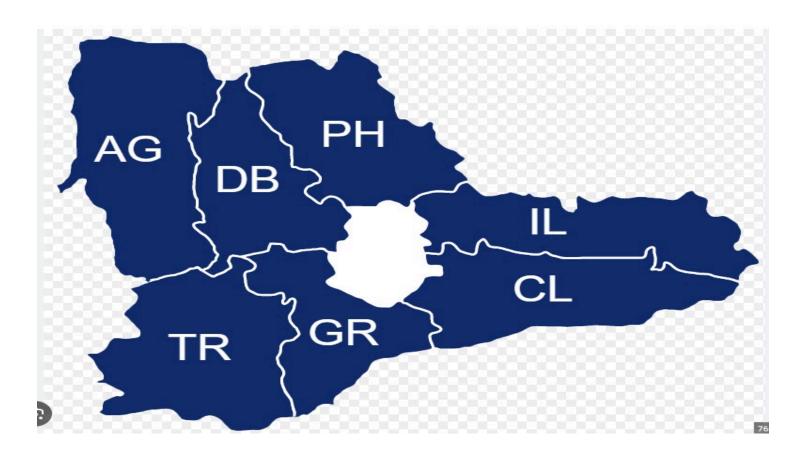
Codul proiectului (SMIS): 136828

Valoare toatala a proiectului: 23.859.231,79 lei

Data începerii proiectului: 06.11.2020

Data finalizării proiectului: 29.12.2023

First FIT offered: Nov 22nd, 2021



GP RESULTS	SUD MUNTENIA
NO OF GP BY 30.09.2023	171
NO OF FIRST VISIT	50001
% HIGH RISK	0.62%
% VULNERABILITY	62.21%
NO OF TEST OFFERED	49693
SECOND TEST OFFERED	462
RETURN RATE	89.31%
NO OF FIT WITH VALIDATED RESULT	44561
INVALID TESTS	1027
% INVALID TESTS	2.30%
NO OF POSITIVE TESTS	2577
% POSITIVE FIT	5.78%











SERVICII MEDICALE PERFORMANTE DE PREVENȚIE, DIAGNOSTIC ȘI TRATAMENT ENDOSCOPIC ÎN CANCERUL COLORECTAL







Program screening cancer colorectal - Sud-Vest Oltenia





Q Search

First FIT offered: Nov 4th 2021



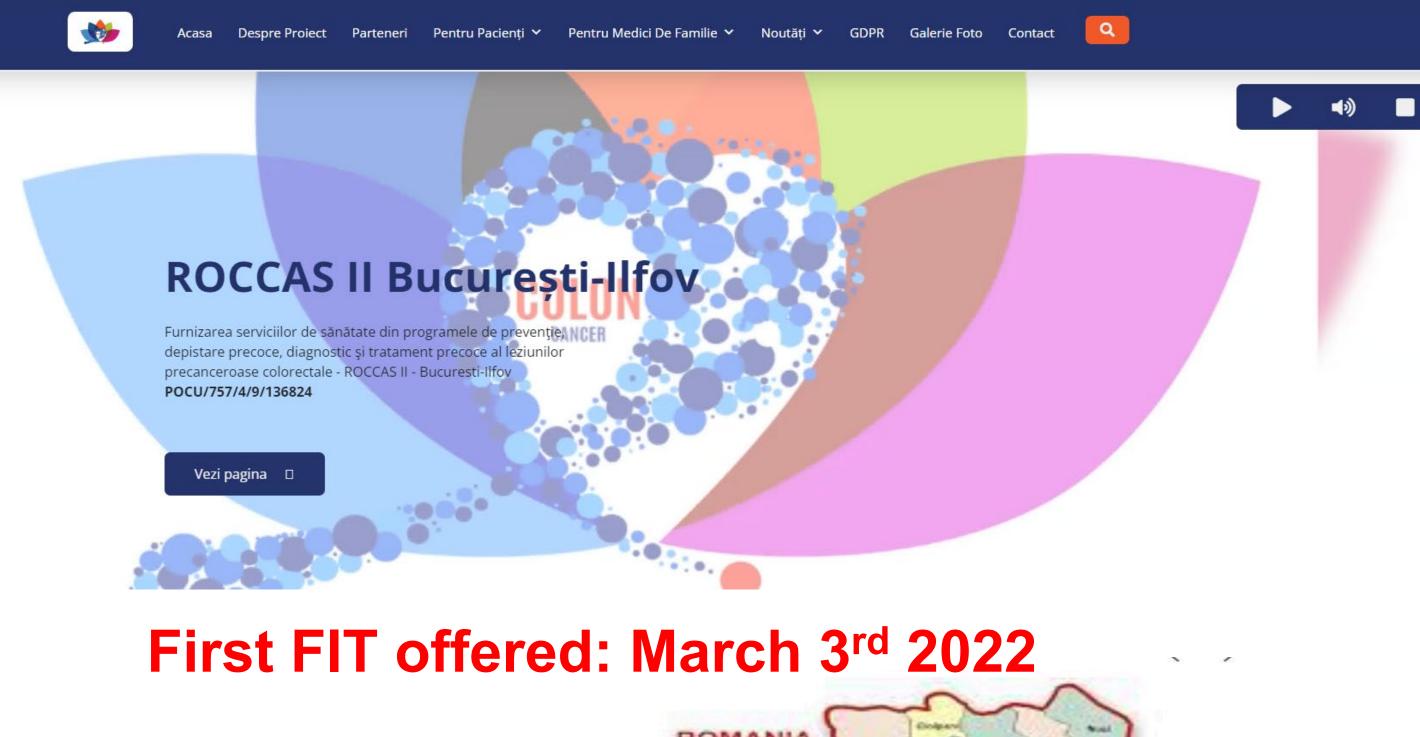
GP RESULTS	SUD VEST CRAIOVA
NO OF GP BY 30.09.2023	215
NO OF FIRST VISIT	50257
% HIGH RISK	0.15%
% VULNERABILITY	59.17%
NO OF TEST OFFERED	53744
SECOND TEST OFFERED	3561
RETURN RATE	95.18%
NO OF FIT WITH VALIDATED RESULT	50439
INVALID TESTS	6668
% INVALID TESTS	13.22%
NO OF POSITIVE TESTS	2751
% POSITIVE FIT	5.45%













GP RESULTS	BUCURESTI ILFOV
NO OF GP BY 30.09.2023	131
NO OF FIRST VISIT	40776
% HIGH RISK	1.74%
% VULNERABILITY	18.37%
NO OF TEST OFFERED	40310
SECOND TEST OFFERED	243
RETURN PERCENTAGE	79.25%
NO OF FIT WITH VALIDATED RESULT	29884
INVALID TESTS	802
% INVALID TESTS	2.68%
NO OF POSITIVE TESTS	1525
% POSITIVE FIT	5.10%













LUNA INTERNAȚIONALĂ DE CONȘTIENTIZARE A CANCERULUI COLORECTAL



Centrul Regional de Preventie a Cancerului Colorectal - Regiunea Sud-Est

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First FIT offered: April 6th 2022



GP RESULTS	SUD EST CONSTANTA
NO OF GP BY 30.09.2023	162
NO OF FIRST VISIT	29549
% HIGH RISK	1.24%
% VULNERABILITY	57.67%
NO OF TEST OFFERED	29374
SECOND TEST OFFERED	265
RETURN PERCENTAGE	92.79%
NO OF FIT WITH VALIDATED RESULT	26112
INVALID TESTS	454
% INVALID TESTS	1.74%
NO OF POSITIVE TESTS	1363
% POSITIVE FIT	5.22%





FIT screening – PRELIMINARY DATA, 30.09.2023

	TEST OC SENSOR	TEST FOB GOLD
Type of FIT test used:	(20 μg Hgb/g)	(20 μg Hgb/g)
Number of offered FIT'S	118,869	50,183
Participation rate (FIT test return rate)	86.67%	95.18%
overall	89	9.69%
Positivity FIT rate	5.43%	5.45%
overall	5.44%	
Invalid FIT test rate	2.12%	13.46%
Colonoscopy uptake - FIT positive	56.23%	53.00%





COLONOSCOPY SCREENING ROCCAS II SOUTH-MUNTENIA, 30.09.2023

- Seven counties
- Screening target 50001 persons
 - •29501 vulnerable population

HUMAN RESOURCES INVOLVED

Category	n	Tasks
Family physicians (April 30 th)	171	Risk questionnaire, FIT
Endoscopy staff		
Endoscopists	8	1/day assigned by rotation
Endoscopy nurses	5	1/day assigned by rotation
Anesthesiologists	2	1/day assigned by rotation
Histopathology		
Pathologists	2	Trained in gastrointestinal pathology
Histotechnicians	2	Samples processing
Call-center		
Gastroenterology fellow	3	scheduling - medical interview, NGO coordination, etc.
IT / Logistics/Backoffice	10+	FIT, bowel prep supply, LAB coordination, operational issues, documents







COLONOSCOPY SCREENING ROCCAS II SOUTH-MUNTENIA, 30.09.2023

COLONOSCOPY – QUALITY INDICATORS FIT POSITIVE (n=942)

Indicator	Result n (%)	Target
Informed consent	942 (100%)	100%
Adequate bowel preparation (BBPS≥6)	793 (84.18%)	≥90%
Withdrawal time (colonoscopies without lesions)	8.65 ± 3.06	
≥6 minutes	93.69%	100%
Cecal intubation rate	878 (93.21%)	≥90%
Sedation	828 (87.90%)	
Complication rate		
Bleeding	15 (1.59%)	Severe <1:20
Perforation	0	<1:1000
Appropriate polypectomy technique (ESGE guideline)	82.69%	≥90% (min 80%)
Polyp retrieval rate	89.87%	≥95% (min 90%)





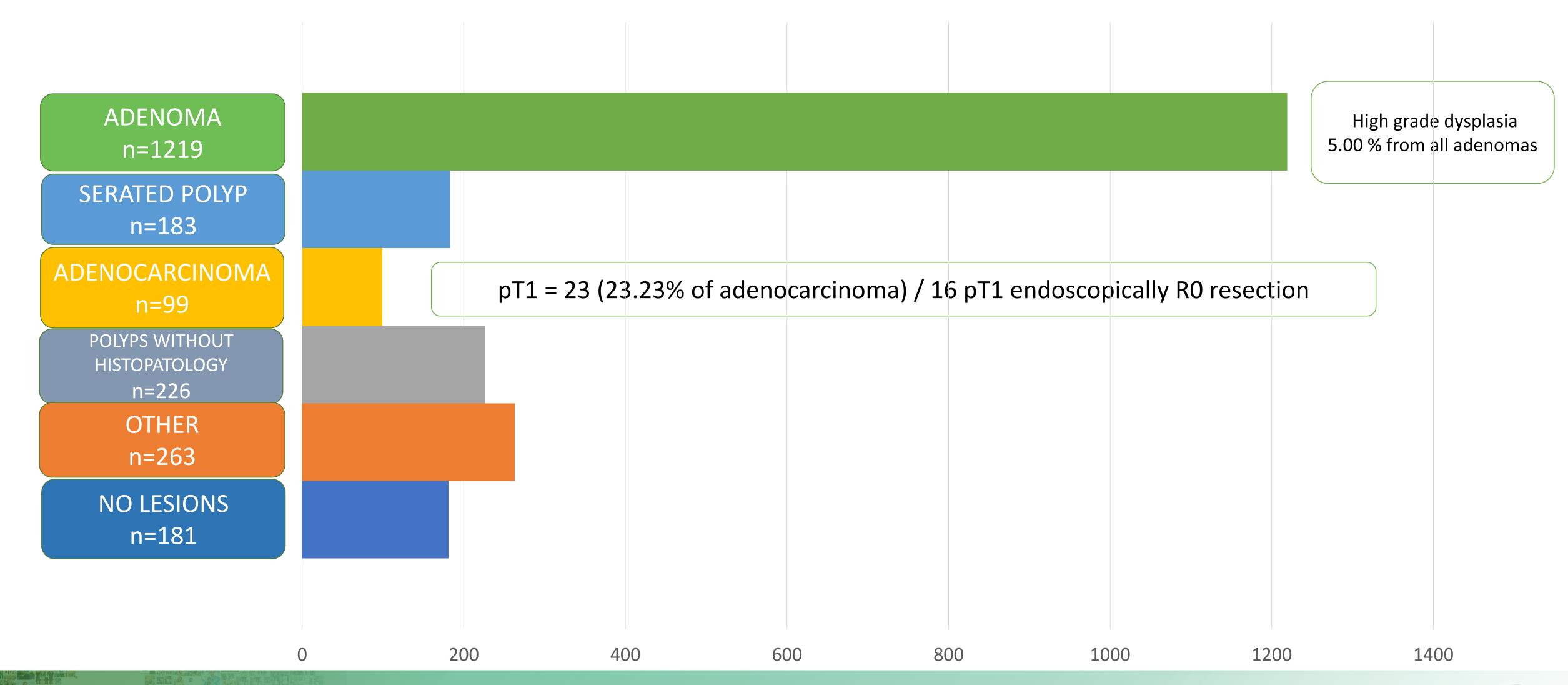
COLONOSCOPY SCREENING ROCCAS II SOUTH-MUNTENIA, 30.09.2023

Indicator	Result n (%)	Target
Adenoma detection rate	518 (55.10%)	
Gender (M vs F)	311 (66.45%) vs 207 (43.67%)	≥ 45% male / ≥ 35% female
Age (50-64 years vs ≥ 65 years)	277 (51.97) vs 241 (58.92%)	
Detection rate of advanced adenoma (≥10mm, tubulo-villous, villous, high-grade dysplasia)	275 (29.19%)	
Gender (M vs F)	164 (35.04%) vs 111 (23.42%)	
Age (50-64 years vs ≥ 65 years)	144 (27.02%) vs 131 (32.03%)	
Detection rate of CRC, %	99 (10.51%)	
Gender (M vs F)	53 (11.32%) vs 46 (9.70%)	
Age (50-64 years vs ≥ 65 years)	45 (8.44%) vs 54 (13.20%)	
Serrated polyp detection rate, %	120 (12.74%)	? 7% ?
Gender (M vs F)	70 (14.96%) vs 50 (10.55%)	
Age (50-64 years vs ≥ 65 years)	71 (13.32%) vs 49 (11.98%)	





DETECTED LESIONS FIT POSITIVE





Final remarks

Pilot projects could validate the use of family doctors as screening providers at least for vulnerable population generating a high return rate for FIT's

The ROCCAS screening national register is an important tool not only for providing the database for screening but also to provide the quality indicators at any level

Almost all quality indicators were fulfilled for FIT testing and colonoscopy but only few centers were involved in the pilot projects

A large number of lesions were discovered and treated, and a significant number of cancers has been proved to be pT1 generating an important benefit for the screening

ROCCAS projects represent the first step of the national colon cancer screening program. Results and experience are useful for the implementation of all eight regional programs and the roll-out into the general population from 2024



THANK YOU!!





