Colorectal cancer screening in Hungary Results of pilot studies

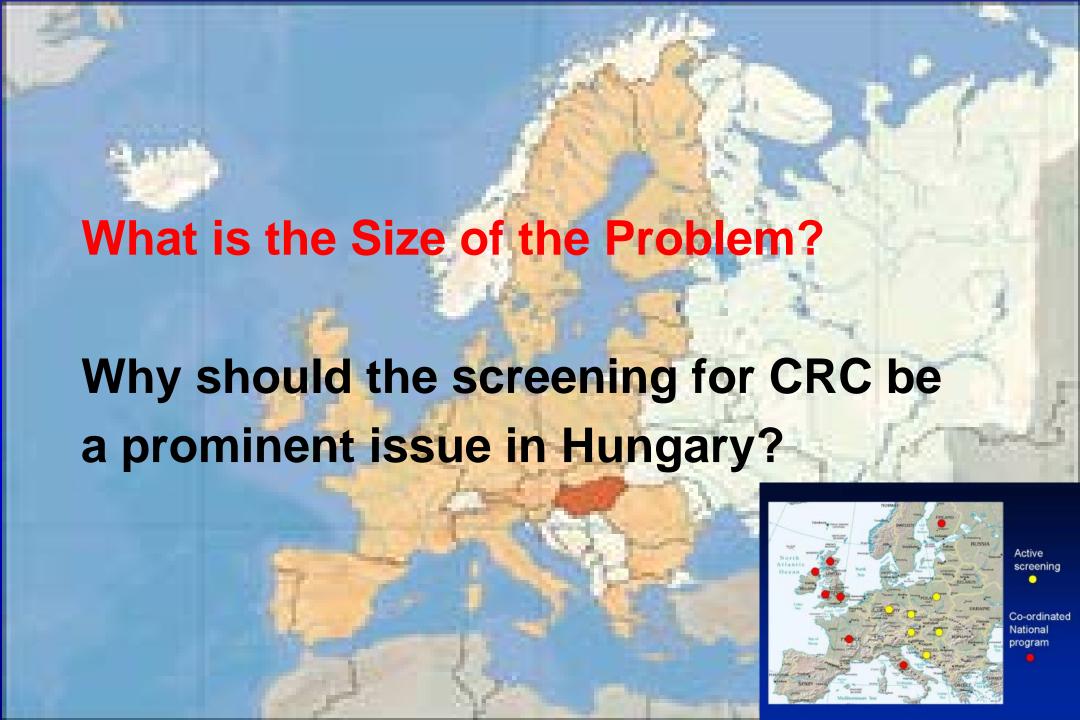
Márk Juhász M.D., Ph.D.

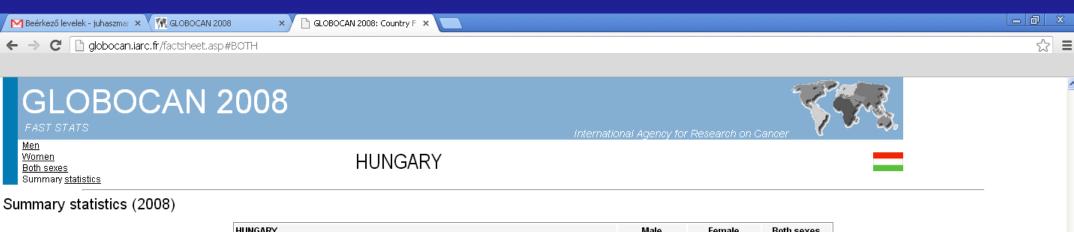
Semmelweis University, Budapest

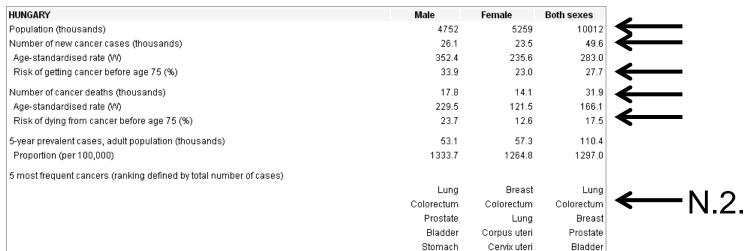
2nd Dept. Med.











Cancers in total in Hungary















Colorectal Cancer in Hungary

GLOBOCAN 2008

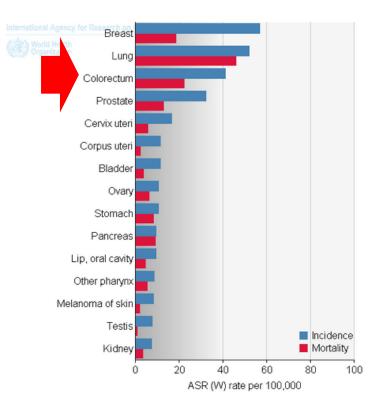
<u>Men</u> Women Both sexes Summary statistics

HUNGARY



Estimated age-standardised incidence and mortality rates: both sexes

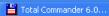
Estimated incidence, mortality and 5-year prevalence: both sexes



Cancer	In	:е	Mortality			5-year prevalence					
Calicei	Number	(%)	ASR (W)	Number	(%)	ASR (W)	Number	(%)	Prop.		
Lip, oral cavity	1489	3.0	9.4	772	2.4	4.7	3163	2.9	37.2		
Nasopharynx	104	0.2	0.7	57	0.2	0.4	231	0.2	2.7		
Other pharynx	1233	2.5	8.6	822	2.6	5.4	2450	2.2	28.8		
Oesophagus	619	1.2	3.8	600	1.9	3.5	460	0.4	5.4		
Stomach	2078	4.2	10.4	1725	5.4	8.3	2477	2.2	29.1		
Colorectum	8105	16.3	41.2	4753	14.9	22.3	19143	17.3	224.8		
Liver	686	1.4	3.7	765	2.4	3.9	580	0.5	6.8		
Gallbladder	752	1.5	3.4	642	2.0	2.8	543	0.5	6.4		
Pancreas	1861	3.8	9.6	1794	5.6	9.0	932	0.8	10.9		
Larynx	989	2.0	6.5	545	1.7	3.3	2910	2.6	34.2		
Lung	9049	18.2	52.0	8330	26.1	46.0	9501	8.6	111.6		
Melanoma of skin	1298	2.6	8.2	340	1.1	1.9	4515	4.1	53.0		
Breast	5218	10.5	56.8	2108	6.6	18.6	19207	17.4	424.0		
Cervix uteri	1086	2.2	16.6	472	1.5	5.6	3841	3.5	84.8		
Corpus uteri	1177	2.4	11.5	280	0.9	2.2	4312	3.9	95.2		
Ovary	1008	2.0	10.7	687	2.2	6.2	2244	2.0	49.5		
Prostate	2704	5.5	32.3	1186	3.7	12.8	8340	7.6	209.3		
Testis	399	0.8	7.7	40	0.1	0.7	1825	1.7	45.8		
Kidney	1328	2.7	7.5	694	2.2	3.4	3580	3.2	42.0		
Bladder	2171	4.4	11.5	831	2.6	3.6	6508	5.9	76.4		
Brain, nervous system	614	1.2	4.3	640	2.0	4.0	649	0.6	7.6		
Thyroid	557	1.1	4.0	90	0.3	0.4	2094	1.9	24.6		
Hodgkin lymphoma	129	0.3	1.3	39	0.1	0.3	410	0.4	4.8		
Non-Hodgkin lymphoma	1053	2.1	6.1	583	1.8	3.0	2492	2.3	29.3		
Multiple myeloma	356	0.7	2.0	251	0.8	1.2	744	0.7	8.7		
Leukaemia	1203	2.4	7.3	949	3.0	5.1	2371	2.1	27.9		
All cancers excl. non-melanoma skin cancer	49617	100.0	283.0	31947	100.1	166.1	110434	100.0	1297.0		
hoidence and mortality data for all ages. 5-year prevalence for adult population only. ASR (W) and proportions per 100,000.											













Colorectal Cancer in Europe

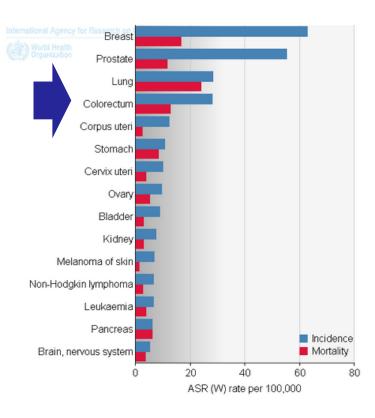
GLOBOCAN 2008

Women Both sexes

WHO EUROPE REGION (EURO)

Estimated age-standardised incidence and mortality rates: both sexes

Estimated incidence, mortality and 5-year prevalence: both sexes

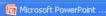


Cancer	Incidence			Mortality			5-year prevalence				
Calicei	Number	(%)	ASR (W)	Number	(%)	ASR (W)	Number	(%)	Prop.		
Lip, oral cavity	60051	1.8	4.3	23918	1.3	1.7	154377	1.7	21.1		
Nasopharynx	4969	0.1	0.4	2650	0.1	0.2	13428	0.2	1.8		
Other pharynx	33372	1.0	2.6	18837	1.0	1.4	80589	0.9	11.0		
Oesophagus	51939	1.5	3.5	45406	2.4	3.0	51978	0.6	7.1		
Stomach	166190	4.9	10.7	134022	7.2	8.4	228172	2.6	31.1		
Colorectum	450621	13.2	28.1	223268	12.0	12.8	1209532	13.6	165.0		
Liver	65644	1.9	4.2	66319	3.6	4.1	58081	0.7	7.9		
Gallbladder	30667	0.9	1.8	23871	1.3	1.3	28939	0.3	4.0		
Pancreas	99901	2.9	6.3	101066	5.4	6.2	54953	0.6	7.5		
Larynx	45433	1.3	3.4	23381	1.3	1.6	143748	1.6	19.6		
Lung	417554	12.2	28.2	368715	19.8	24.1	441848	5.0	60.3		
Melanoma of skin	88510	2.6	6.8	21002	1.1	1.4	341113	3.8	46.5		
Breast	450322	13.2	62.8	139829	7.5	16.7	1770814	19.9	462.4		
Cervix uteri	61397	1.8	10.1	28181	1.5	3.9	206110	2.3	53.8		
Corpus uteri	93562	2.7	12.3	23528	1.3	2.5	353442	4.0	92.3		
Ovary	69565	2.0	9.5	44280	2.4	5.3	166781	1.9	43.5		
Prostate	379097	11.1	55.3	94080	5.1	11.7	1383018	15.5	395.0		
Testis	19774	0.6	4.2	2175	0.1	0.4	84363	0.9	24.1		
Kidney	106018	3.1	7.5	47419	2.5	3.0	303655	3.4	41.4		
Bladder	143555	4.2	8.8	55589	3.0	3.0	463438	5.2	63.2		
Brain, nervous system	61156	1.8	5.2	47451	2.5	3.7	69229	0.8	9.4		
Thyroid	51621	1.5	4.5	7204	0.4	0.4	205342	2.3	28.0		
Hodgkin lymphoma	19433	0.6	2.0	5628	0.3	0.5	65145	0.7	8.9		
Non-Hodgkin lymphoma	93827	2.7	6.7	42003	2.3	2.6	243997	2.7	33.3		
Multiple myeloma	38451	1.1	2.4	25659	1.4	1.5	86849	1.0	11.9		
Leukaemia	85679	2.5	6.6	59179	3.2	4.0	175903	2.0	24.0		
All cancers excl. non-melanoma skin cancer	3422811	100.0	236.7	1861096	100.0	116.7	8894500	100.0	1213.3		
Incidence and mortality data for all ages. 5-year prevalence for adult population only. ASR (W) and proportions per 100,000.											







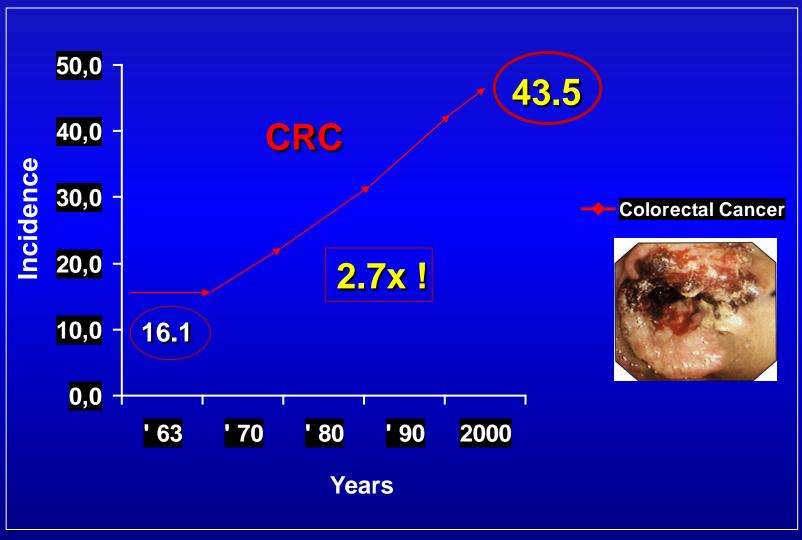






Growing Incidence of Colorectal Cancer in Hungary

Annual average rate CRC/100.000



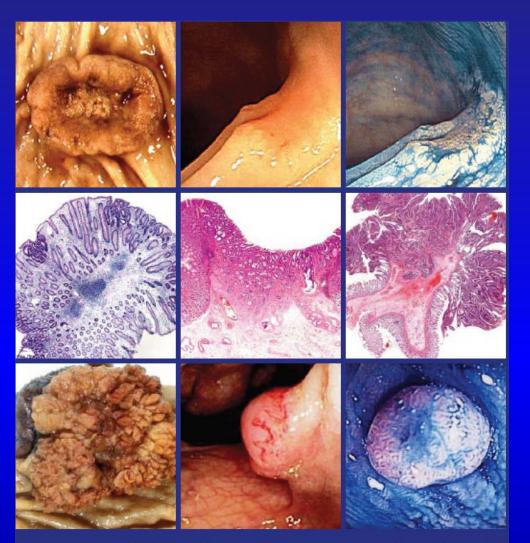
Herszényi et al. MBA 2008; 1: 40-43.

What have we done so far?





http://www.europacolon.com/preventionandscreening.php?Action=Preventionandscreening



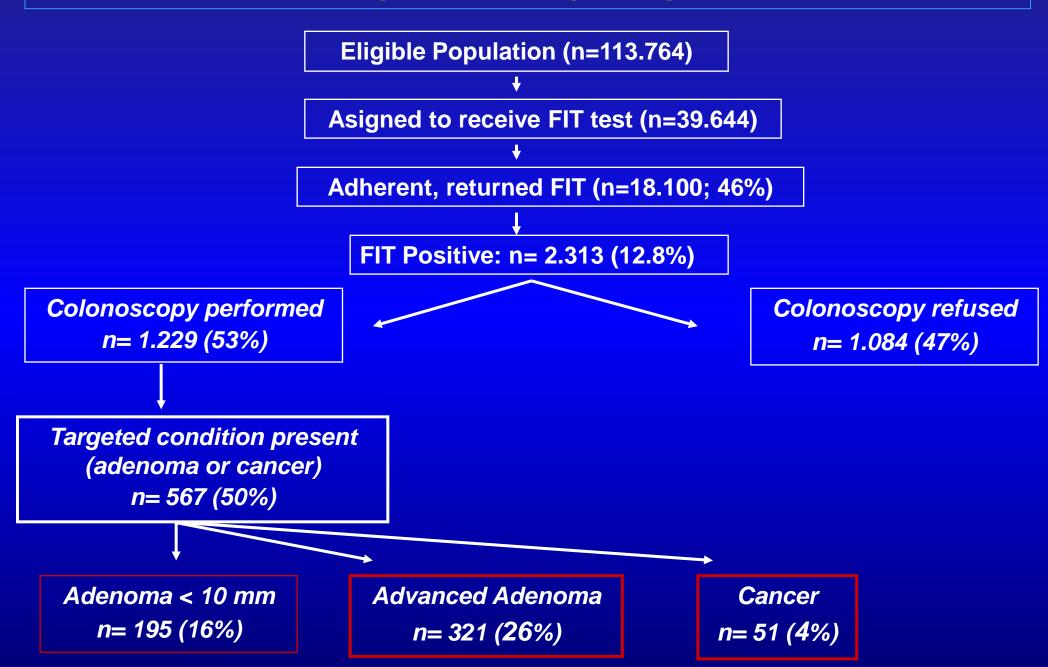
FOBT should be the 1st test for screening

European guidelines for quality assurance in colorectal cancer screening and diagnosis First Edition



Eds. N Segnan, J. Patnick, L. von Karsa, 2010.

Results of a Piloting Screening Programme (Budapest)



What have we learned during this pilot study?

- quality of this FIT was questionnable
- no support from the National Health Insurance:
 after a certain limit, the more colonoscopies you perform the more money you lose (performance volume limit)
- IT backgound was poor

Lack of motivation:

- "Enthusiasm-based" screening (no "pay for performance")
- Passivity of GPs (1/3 did not take part)

3. táblázat

VILÁGBANK ÁLTAL TÁMOGATOTT KÍSÉRLETI VASTAGBÉLSZŰRÉS (1997-1998) ÉS AJKA-LOVÁSZPATONA VASTAGBÉLSZŰRÉS (2003-2004) ÖSSZESÍTETT EREDMÉNYEI

POLYP / KORAI RÁK / ÖSSZES RÁK

	Összesített			Fecatest színreakció				Fecatest színreakció				
Daganatok	Polyp Korai rák		126 17		Polyp Korai rák		67 10		Polyp Korai rák		59 7	
	Összes rák 25			Összes rák 16			Összes rák		9			
	Haemo +	globin -	Albumin + -		Haemoglobi n + -		Albumin + -		Haemoglobin + -		Albumin + -	
Polyp	72	54	122	4	37	30	66	1	35	24	56	3
Korai rák	5	12	17	0	5	5	10	0	0	7	7	0
Összes rák	9	16	25	0	8	8	16	0	1	8	9	0

4. táblázat											
	Világbanki csoport	Ajka-Lovászpatona	Budapest IX. ker	Budapest XIV. ker	Békéscsaba-2006	Balatonfüred	Kecskemét	Nagyatád			
Vizsgálandó populáció	21 950	8 686	11 978	25 134	10753	3 450	25 033	5 000			
Kiküldött levelek száma			11 978	25 134	10753	3 450	3 227	2 507			
Kiadott kazetták száma					3 834	2 485	3 089	2 507			
Beérkezett székletminták száma	6 805	3 996	4 013	10 216	2 763	2 010	3 089	2 507			
FECA-teszt pozitív (alb+Hgb)	224	167	213	475	149	121	401	212			
HGB pozitív	7	19									
Albumin pozitív	146	135									
Kolonoszkópiára javasolt	377	321	213	475	157	121	401	206			
Kolonoszkópiát elutasítók	134	23			25	24	38	112			
Folyamatban lévő kolonoszkópia								20			
Elvégzett kolonoszkópia	243	298	56	200	108	97	197	74			
Negatív kolonoszópos eredmény	35	90	5	76	31	41	124	18			
Nem negatív kolonoszópia	208	208	51	124		56	38	56			
Potyp	59	67	19	50	40	25	36	16			
Rosszindulatú daganat	12	13	4	2	6	2	1	8			
Egyéb	137	128	28	72	31	29	1	32			

"Budapest-kiáltvány"



New European Initiatives in Colorectal Cancer Screening: Budapest Declaration

Official Appeal during the Hungarian Presidency of the Council of the European Union under the Auspices of the United European Gastroenterology Federation, the European Association for Gastroenterology and Endoscopy and the Hungarian Society of Gastroenterology

Tibor Wittmann^a Reinhold Stockbrugger^e László Herszényi^{b, c} Daisy Jonkers^h Béla Molnár^{b, c} Jean-Christophe Saurinⁱ Jaroslaw Regula^j Alberto Malesci^f Luigi Laghi^g Tamás Pintér^d Béla Teleky^k Petr Dítě^l Zsolt Tulassay^{b, c}

Appeal for politicians and decision makers to pay more attention to the importance of colorectal cancer screening

Plans for the near future

Recently launched:

- FOBT-based CRC screening for people between 50-70 years of age

in 3 counties (Győr-Sopron-Moson, Nógrád, Heves) (20.000 people via voluntary

GPs)



Due to start:

 another FOBT-based CRC screening in the county of Csongrád for the risk population – 13.000 people

(Hungary has 19 counties)

Final words

The need for CRC screening is vital in Hungary.

We have done already something: pivotal studies gave us some experience and call for spreading of our activities towards a national level.

We have promising further screening projects running that involve totally 33.000 inhabitants at risk.

If only our governments and the media shared the same opinion...

Honestly, we have not reached a breakthrough yet.









László Herszényi

Zsolt Tulassay

Ferenc Szalay

Tibor Wittmann

István Weiner

Lajos Döbrőssy

András Budai

Szilvia Strommer

Magyar Rákellenes Liga





