









compliance					
DESCRIPTIVE DATA					
Invited population at the end of first	wave 99.215				
FOBT compliance	45.049	45,4%	of compliance		
positive FOBT	2.831	6,3%	of total FOBT made		
Colonoscopies made at 31/12/06	1.350	47,7%	of positives at FOBT		
for which result is known	696	24,6%	of positives at FOBT		
Benign Cancer	237	34,1%	of colonoscopies		
Malignant Cancer	60	8,6%	of colonoscopies		





## Cost analysis: methodology

## Human Resources

- for each activity: number, qualification and time spent by each figure.
- Economic evaluation: cost/hour
- Materials
  - For each activity: type, quantity of material used
  - Economic evaluation: cost for the structure

## • Pharmaceuticals and drugs

- For each activity/treatment: type, quantity used
- Economic evaluation: unit cost for the structure
- Instruments
  - For each activity/treatment: type, quantity used
  - Economic evaluation: utilization, unitary coefficient of allocation



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Project planning and implementat	ion		
<ol> <li>(1) concl. activities</li> <li>(2) current activities (monthly cost)</li> <li>(3) Total cost current activities</li> <li>TOTAL [(1)+(3)]</li> </ol>		24.552,02	
		4.090,72	
		110.449,44	
		135.001,46	
ARISING	€	29.241,10	
Estimated cost at the end of first wave	€	122.729,30	
Information ac	tivities-Advertisin	g	
(1) concl. activities		€	2.180,20
(2) current activities (monthly	/ cost)	€	518,00
(3) Total cost current activitie	es	€	13.986,00
(4) video clip		€	3.750,00
(5) advertising costs (deplian	it, advert ecc.)	€	20.000,00
TOTAL [(1)+(3)+(4)+(5)]		€	39.916,20
ARISING		€	37.995,00
Estimated cost at the end of	first wave	€	38.362,20
Monogoment estivities			
(1) concl. activities	£	41 796 92	
(2) current activities (monthly cost)	€	4 842 16	
(3) Total cost current activities	€	130 738 32	
(4) variable activities (compliance)	€	75 543 39	
TOTAL $[(1)+(3)+(4)]$	€	248.078.63	
ARISING	€	242.931.71	
Estimated cost at the end of first wave	€	232,802,46	

1) fixed costs (kit reagent) 2) byologist cost 3) transport costs 4) refert. POSITIVES	€ €	209.181	60		
2) byologist cost 3) transport costs 4) refert. POSITIVES	€	200.101			
<ul><li>a) transport costs</li><li>4) refert. POSITIVES</li></ul>		21.600	.00		
4) refert. POSITIVES	€	21.108	,60		
	€	19.842	,46		
5) refert. NEGATIVES	€	56	,62		
6) telephonic calls	€	1.132	,40		
7) interviews	€	31.685	,97		
TOTAL	€	304.607	<mark>,65</mark>		
ARISING	€	304.607	,65		
Estimated cost at the end of first wave	€	360.223	,75		
		S	imple col	onoscopy	171,00
		C	olonscop	y + Biopsia	179,53
			olypector	ny	232,10
		P	artial poly	pectomy	171.64
SECOND	EVEL	С	olonscop	y + Biopsia (partial)	149,07
colonoscopy preparation			€	2.381,40	
colonoscopy total (a)			€	246.490,83	
emost. And tat.			€	45,27	
refert and results+call of NEG	ATIVES *		€	822,03	
refertart and invitation to follow	v up POSIT	TIVES*	€	111,39	
TOTAL			€	249.850,92	
ARISING			£	60 804 41	

CHEMOTHERAPY (one patient)(b)		
olyps and stages A-B not at risk (F-U)	€	23,62
stages A - B not at risk (F-U)	€	23,62
stages B at risk and C good condition		
Folfox (6 c. in 3 months))	€	4.496,42
stages B at risk and C bad condition		
Capacitabina (8 c. in 6 months)	€	3.383,16
stages D I line		
Folfiri+Bevaciz. (3 months)	€	2.882,81
stages D II line		
Folfiri+Cetuximab (3 months)	€	11.082,03
CPT-CET (3 months)	€	13.949,69
Folfox (3 months)	€	4.496,42
stages D III line		
Fumit-Mitomicina (3 months)	€	772,95
Stages D with comorbidities		
Capox (3 months)	€	5.023,81
Fufaset (3 months)	€	863,92
(b) to treat one patient		
CHEMOTHERAPY (total of treated patients)	€	138.714,49
ARISING	€	131.022,57

SURGICAL TREATMENT (ur	nit patient)		
surgical intervention (human resources a	and material)	€	1.989,04
anestesia	,	€	231,0
general costs		€	38,17
TOTAL		€	2.334,6
ARISING		€	1.359,2
IN-STAY (average of 7 days)		€	666,6
TOTAL IN STAY for all patients		€	58.660,54
ARISING		€	14.438,7
FOLLOW UP (for patient) (c)			
FOBT negative	€	15,23	
FOBT positive and Colon negative	€	9,14	
1-2 adenomas < 1 cm	€	174,05	
1 adenomas > 1 cm 3 or more < 1 cm	€	342,00	
polyp	€	513,00	
non invasive neoplasia	€	342,00	
nign displasia NEGATIVE Byopsia	ŧ	684,00	
c ) for 10 years follow up			
FOLLOW UP CHEMOTHERAPY (d)			
for chemoterapy up to stage B and C	€	2.490,72	
for chemoterapy up to stage B and C	€	2.490,72	

MACRO ACTIVITIES	Costs a	at the end of first wave	Estin	nated costs 2005
Project adoption and coordination	€	135.001,46	€	122.729,30
Information activities	€	39.916,20	€	38.362,20
Management of patients	€	248.078,63	€	232.802,40
First level Test FOBT (RSO)	€	304.607,65	€	360.223,75
Second level (colonoscopy)	€	249.850,92	€	1.404.327,03
Surgical intervention and in-stay*	€	270.132,60		
Oncologic treatment *	€	138.714,49		
Follow-up healthy person (unit)*	€	15,23		
Follow-up high degree displasia (unit) *	€	684,00		
TOTAL	€	1.386.301,94	€	2.158.444,74
Arising costs	€	951.010,37		















(2003-2007)					
First diagnosis	SD %	NSD %	tot. %		
Adenomatous Polyps :	9.4	13.8	13.1		
Tubolar polyps:	48,5	40,8	41,9		
Dysplastic Adenoma:	29,8	16,2	18,2		
Cancer:	11,7	24,2	22,4		
Other benign neoplasia :	0,7	4.7	4,1		
Other malignant neoplasia:	-	0.4	0,3		
Total patients	1.044	6.156	7.200		



## **Further research**

- The project intends to verify:
  - the screening impact in terms of **QoL** (quality of life) through a prospective study and questionnaire administration.
  - the reasons for participation/non participation to the screening program.
- Consider a societal perspective
- The study is intended to provide health and economic evaluation in relation to the policy choice between prevention, through screening, and cure the pathology when detected.

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