

Colorectal Cancer Screening at Mexico: Success and Challenge

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Health Care, Mexico

 Mexico does not have a single, national scheme providing health care coverage as a whole.

 Social insurance (IMSS/ISSSTE), private insurance, uninsured population

Since 2015: Popular Health Insurance (cover 100% CCR treatment)

Cancer is the 2nd cause of death in the country

 In the absence of a National Cancer Registration System, the Registro Histopatologico de las Neoplasias de Mexico (RHNM 2002) is the primary information source.

Table 1 Incidence of CRC in four hospitals in Mexico City. (Modified from [29])

Hospital	Population attended	1978 [%]	2003 [%]	p
Hospital general	Poor uninsured	15	36	< 0.001
Hospital 20 de Noviembre	Middle class government employees	20	51	< 0.01
Instituto Nacional de CMNSZ	Middle class uninsured	26	39	< 0.106
Hospital Español	Upper middle class, European	37	39	ns

 An increased in the frequency of CRC in the last 25 years has been demonstrated (36%)

Colonic Tumour Localization, Clinicopathological Patterns and Incidence of Colorectal

Carcinoma in Mexican Population

Ruiz-Garcia Et, Astudillo de la Vega H¤, Aguilar-Ponce JLt, Martinez-Cedillo Jt, Meneses-Garcia At, Calderillo-Ruiz Gt tentituto Nacional de Cancerologia, Mexico. ¤Centro Medico Nacional SXXI, Mexico

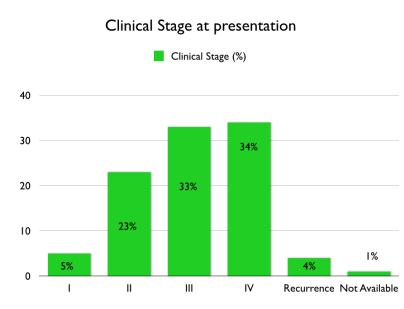


NCI

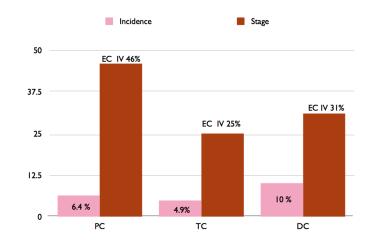
2004-2010 N= 403 cases (only CT pts) Age 54 y (range 21-88)

- Incidence in younger patients is increasing (22.8% pts < 40 años)
- More than 80% of patients are treated in tertiary cancer centers with advanced tumors (stages III and IV).
- Late diagnosis of the CRC may be attributed to the complete absence of screening programs and contributes to the low survival of these patients

Eur J Cancer 2011, 47(s1) 2011



Colonic tumor localization and Clinical Stage patients under 40 years old





Endoscopy Department

- Screening
- Diagnosis

INCan, UFG. Dic 2010-Oct 2015 Cancer Incidence

Sitio	N
Esophagus	255
EGJ	100
Gastric	921
Small	45
Colon	738
Rectum	686
Anus	45
Others	125

Total: 2915

Experience of a Private Single Center

- A colonoscopy-based screening program for colorectal cancer (Mexico)
- 600 personalized letters were sent (asymptomatic people)
- N=99

Table 3 Prevalence of adenomas analyzed by age group.

	No adenoma n = 82 n (%)	Adenoma n = 17 n (%)	p value
40-49 years	47 (57)	2 (12)	<0.001
50-59 years	30 (37)	9 (53)	
60-69 years	5 (6)	6 (35)	

Table 1 Demographics of the subjects included in the analysis according to the colonoscopy result.

	Normal colonoscopy n = 64 n (%)	Abnormal colonoscopy n = 35 n (%)	p value
Gender, women	48 (75)	25 (71)	0.81
Comorbidities	21 (33)	16 (46)	0.27
Complete colonoscopy	64 (100)	35 (100)	NC
	$X \pm DE$	$X \pm DE$	
Bowel preparation	$\textbf{7.95} \pm \textbf{.82}$	$\textbf{7.83} \pm \textbf{.89}$.628
Withdrawal time,	6.22 ± 1.83	9.64 ± 4.33	.000
Age, years	46.89 ± 6.29	54.14 ± 7.69	.000
BMI	$\textbf{27.07} \pm \textbf{3.90}$	$\textbf{27.43} \pm \textbf{3.48}$.651

BMI: bowel mass index (kg/m^2) .

Table 2 Prevalence of colorectal neoplasm throughout the colon.

	n = 47
	n (%)
Tubular adenoma	23 (49)
Hyperplastic polyp	13 (28)
Chronic colitis	8 (17)
Tubulovillous adenoma	1 (2)
Villous adenoma	1 (2)
Fibrolipoma	1 (2)

Colorectal cancer		
Guidelines ¹²		
Are there colorectal cancer screening guidelines available?	Yes	
Guideline recommendations (tests/age groups/frequency)	Fecal occult blood test or fecal immunological test/general population aged 50 years or older/annual	
Availability and coverage of screening services		
Fecal occult blood test or fecal immunological test ⁶ DK		
Exam or colonoscopy ⁶	DK	
Screening coverage		



- Centro Nacional de Excelencia Tecnológica en Salud 2009
- PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.

Opportunities and Challenges

 Population-based cancer registration using data from 3 Mexican cities: North (Monterrey) South (Merida) and in the Center (Queretaro)

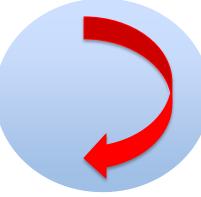


 NCI Mexico in partnership with others institutions (IMSS, ISSSTE, etc.) are working in a national CRC screening program, since 2015, as part of a big plan Programa Integral
de Prevención
y Control del Cáncer
en México

Reduced prevalence of potential risk factors

Screening

Treatment and surveillance



Effectiveness in early detection

Infrastructure





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