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Q1 Colorectal cancer screening of immigrants to Italy. Figures from the 2013 National Survey

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ABSTRACT

Background. Colorectal cancer screening programmes in Italy invite 50–69-year-old residents for a faecal immunochemical test every two years, regardless of their citizenship.

Abbreviations: CRC, Colorectal cancer; FS, flexible sigmoidoscopy; FIT, faecal immunochemical test; TC, total colonoscopy; ONS, National Centre for Screening Monitoring; adj-RR, adjusted relative risks.

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46 **Keywords:**
 47 Colorectal neoplasm
 48 Mass screening
 49 Immigrants

Methods. The 2013 National Survey on Italian colorectal cancer screening programmes compared immigrants 54
 born in low- or middle-income countries with subjects who were born in Italy, by collecting aggregated data on 55
 compliance, faecal immunochemical test results, compliance with colonoscopy, detected lesions and stage at 56
 diagnosis separately for Italians and immigrants. 57

Results. Overall, 85 screening programmes invited 3,292,451 subjects, of whom 192,629 had been born 58
 abroad (5.9%). Compliance with invitation was lower in immigrants (34.3% vs. 51.3% in Italians), with $p < 59$
 0.001. Compliance was higher in females, regardless of the country of birth, in the youngest age group of immi- 60
 grants but in the oldest of Italians. 61

Immigrants showed a borderline excess of standardised faecal immunochemical test positivity rate at first 62
 screening (5.4% vs. 5.1% in Italians, $p = 0.05$) and a significant excess at repeat screenings (4.8% vs. 4.4%, $p = 63$
 0.002). The detection rates for carcinoma and advanced adenomas were lower in immigrants than in Italians 64
 at first screening (respectively 1.34% vs. 1.62% and 8.41% vs. 9.25%) – although the differences were not 65
 statistically significant – but not at repeat screening (respectively 1.06% vs. 0.98% and 6.90% vs. 6.79%). 66

Conclusions. Migrants showed a lower compliance with screening than Italians. The prevalence of neoplasia 67
 was lower at first screening and similar to the Italians' at repeat screenings. 68

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74 Introduction

75 Colorectal cancer (CRC) represents almost 10% of the global cancer 76
 incidence burden, and is the third most common cancer in men and 77
 the second most common in women (Bosman, 2014). Incidence varies 78
 tenfold between countries worldwide, in both sexes; rates tend to be 79
 relatively low particularly in many African countries.

80 Geographic and temporal variations in incidence, as well as studies 81
 of immigrants, have shown that CRC is especially sensitive to changes 82
 in environmental exposures, lifestyle and socio-economic level 83
 (American Institute for Cancer Research, 1997; Kolonel et al., 1986; Le 84
 Marchand et al., 1997). Thus, incidence and mortality are increasing in 85
 many countries, transitioning towards higher levels of human develop- 86
 ment. In contrast, trends appear to be stabilizing or declining in coun- 87
 tries that have attained the highest levels of human development 88
 (Bosman, 2014).

89 Studies of immigrants have shown that acquired environmental fac- 90
 tors, including, most importantly, diet, have a substantial effect on CRC 91
 incidence (Flood et al., 2000; Ladabaum et al., 2014; Shimizu et al., 92
 1987). The dietary changes due to the immigrants' acculturation have 93
 been shown to be significant (Monroe et al., 2003) and support an 94
 association between CRC risk and certain dietary components.

95 Thus, even if the risk of CRC among immigrants coming from 96
 low/medium-income countries is expected to be lower than among 97
 the native population of a high-income country, it cannot be excluded 98
 that the immigrants can acquire the lifestyle and hence the risk of 99
 disease of the natives, even if the greatest changes in dietary behaviour 100
 (and, correspondingly, nearly all the change in CRC rates) have been 101
 shown to occur between the first and second generations of immigrants 102
 (Monroe et al., 2003).

103 Therefore, it is of primary importance to attain a high coverage of the 104
 immigrant population with effective strategies to contrast CRC, like 105
 population-based organised screening programmes actively inviting 106
 the target population, which have been shown to significantly reduce 107
 CRC-specific mortality (Hewitson et al., 2007; Brenner et al., 2014).

108 Immigration to Italy is a relatively recent phenomenon. In 1991, 109
 foreigners residing in Italy were less than 1% of the total population, 110
 while in 2013 they were 7.4%, and over 16% in some cities (Istituto 111
 Nazionale di Statistica, 2006). In the target age for colorectal screening, 112
 the proportion is lower, accounting for 3.1% of males and 4.9% of females 113
 (Istituto Nazionale di Statistica, 2015).

114 Colorectal cancer screening programmes in Italy cover the majority 115
 of the resident population. Where active, screening programmes invite 116
 all the resident population without any difference as regards citizenship 117
 (Zappa et al., 2011). All the screening programmes systematically 118
 collect information about invitations, test results, colonoscopies and 119
 histologies, and participate in a national survey (Zorzi et al., 2012). In 120
 2013, the survey included a focus on the immigrant population.

In this paper, we compare the results of Italian colorectal screening 121
 programmes in immigrant vs. native populations in 2013. 122

123 Methods

124 Colorectal-cancer screening programmes in Italy

125 According to the European Commission's recommendations (European 126
 Commission, 2008), the Italian national guidelines recommend a faecal occult 127
 blood test every two years for subjects aged 50–69 years or a flexible sigmoid- 128
 oscopy (FS) once in a lifetime at 58 or 60 years of age.

129 The majority of the Italian programmes employs the faecal immunochemi- 130
 cal test (FIT) (apart from some – mainly restricted to Piedmont region – that 131
 has adopted FS and FIT for non-responders to FS) for subjects aged from 50 to 132
 69 or 70 years.

133 All FIT programmes invite their target population by mail every two years to 134
 undergo a one-time FIT. People with a negative FIT are advised to repeat 135
 screening in two years. Subjects with a positive screening test are contacted to 136
 undergo a total colonoscopy (TC), which is usually performed at an endoscopic 137
 referral centre. Patients with screen-detected neoplasms are referred to surgery 138
 or endoscopy, and then enrolled in a follow-up programme.

139 The screening programme national survey

140 Since 2005, on behalf of the Ministry of Health, the National Centre for 141
 Screening Monitoring (ONS) has carried out annually a national survey on the 142
 activities performed by CRC screening programmes, whose results are 143
 published in a report (Zorzi et al., 2012).

144 Programmes are required to report aggregated data regarding the entire 145
 screening process, including the numbers of invitations and screened subjects, 146
 the results of the diagnostic workup, and the treatment and stage at diagnosis 147
 of screen-detected cancers.

148 The survey methods were developed by the GISCoR (Gruppo Italiano per lo 149
 Screening Coloretale) in 2007 (Zorzi et al., 2007) and are consistent with the 150
 minimum dataset of indicators for the European guidelines (Segnan et al., 151
 2010).

152 The immigrants survey

153 In 2013, the ONS promoted the collection of information on immigrant 154
 subjects inside the national survey. This survey regarded immigrants from 155
 low- and middle-income countries, which were identified according to a list 156
 from the Italian Ministry of Health (De Giacomi et al., 2009).

157 Data about citizenship was available from very few programmes; most of 158
 them classified as immigrants the subjects who were born in one of the 159
 countries of interest.

160 Data on immigrants were collected with the same form used for the official 161
 survey and were provided by age, gender, and rank of screening episode (first 162
 vs. repeat test), but not by country or geographical area of origin.

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