

Supplemental material for

Differences and similarities in breast and colorectal cancer screening uptake among municipalities in Flanders, Belgium

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Supplementary Tables

Table S1 - Potential municipal characteristics associated with BC/CRC screening uptake.

Variable	Explanation
Socioeconomic variables	
Average income	Total net taxable income / total inhabitants (EUR), per 10,000
Position in the labor market	Jobseekers: % of jobseekers / total inhabitants Wage earners: % of wage earners / total inhabitants Self-employed: % of self-employed / total inhabitants (Early) retired: % of (early) retirees / total inhabitants
Higher education	% of students in higher education / people aged 18-24 years old
Demographic variables	
Age	Age group 1: % of people aged between 55 and 59 years old Age group 2: % of people aged between 60 and 64 years old Age group 3: % of people aged between 65 and 69 years old
Average household size	Average size (n. of people) of the households (n)
Same address	% of people with same address as previous year
Having a partner	% of people having a partner
Having children	% of people having (a) child(ren)
Foreign Nationality	% of people of non-Belgian – non-Dutch nationality / inhabitants
Health-related variables	
Chronic Conditions	% of rightful claimants with at least 1 chronic condition / people with health insurance
Diabetes	% of rightful claimants with diabetes / people with health insurance
Disabilities	% of people aged 18+ registered by the Directorate General for Disabled Persons as losing at least one third of the average earning capacity or being unable to perform daily activities / inhabitants
General practitioner (GP) visits	% of people with at least 1 GP contact in last 12 months / people with health insurance
Preventive Dental visits	% of people with at least 2 preventive dental visits in last 3 years / people with health insurance

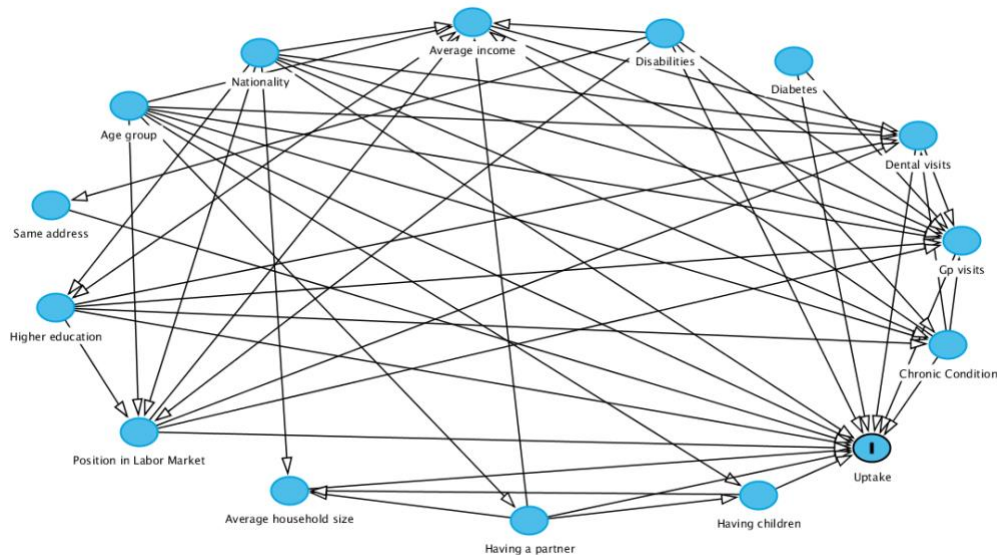
Table S2 - Covariates for adjustment in multivariable analyses to estimate the association between each municipal characteristic and profile of BC/CRC screening uptake.

Municipal Characteristics	Covariates for adjustment
Socioeconomic variables	
Average income	Chronic Condition, Age group, Disabilities, With a partner, Foreign Nationality, Position in Labor Market, Higher Education
Position in Labor Market	Age group, Disabilities, Foreign Nationality, Higher Education
Higher education*	Chronic Condition, Age group, Dental Visits, Diabetes, Disabilities, GP visits, With a partner, Foreign Nationality, Position in the Labor Market
Demographic variables	
Age	No adjustment
Average household size	With a partner, With children, Foreign Nationality
Same address	Disabilities
Having a partner	Age group
Having children	Age group, With a partner
Foreign Nationality	No adjustment
Health-related variables	
Chronic Conditions	Age group, Disabilities, Foreign Nationality, Higher Education
Diabetes	No adjustment
Disabilities	No adjustment
General practitioner (GP) visits	Chronic Condition, Age group, Dental Visits, Diabetes, Disabilities, With a partner, Foreign Nationality, Position in the Labor Market, Higher Education
Preventive Dental visits	Chronic Condition, Age group, Nationality, Position in the Labor Market, Average Income, Higher Education

* Adjustment set for the direct effect only

Supplementary Figures

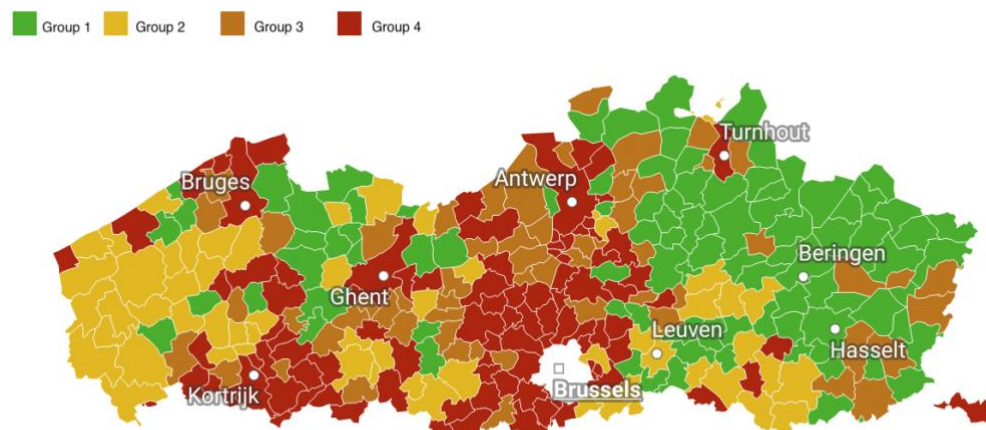
Figure S1 - Causal directed acyclic graph (DAG) built to identify covariates for adjustment in multivariable analyses. Available online at: [dagitty.net/mck1- X](https://dagitty.net/mck1-X)



Figures S2 - Maps of Flanders municipalities (division before 2019) displaying municipality uptake profiles (2014-2017).

Group 1 (reference group): high BC, high CRC; Group 2: high BC, low CRC; Group 3: low BC, high CRC; Group 4: low BC, low CRC.

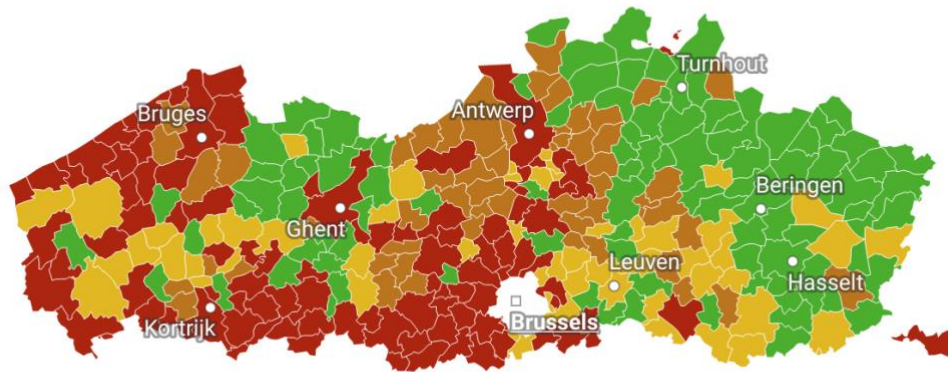
BC/CRC screening uptake: municipality profiles 2014



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BC/CRC screening uptake: municipality profiles 2015

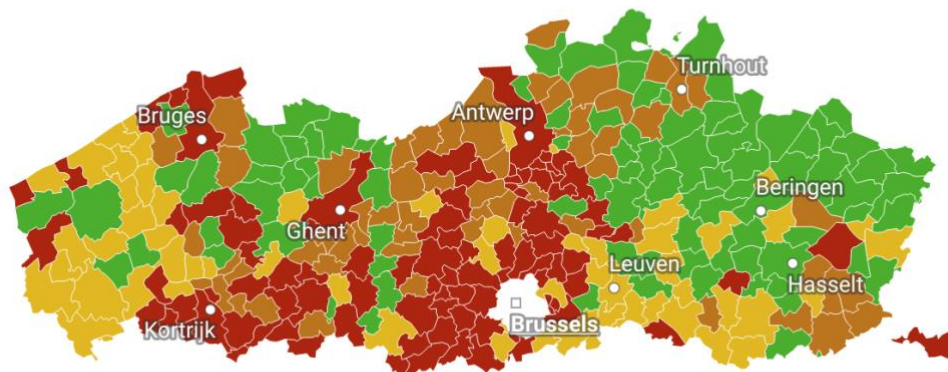
Group 1 Group 2 Group 3 Group 4



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BC/CRC screening uptake: municipality profiles 2016

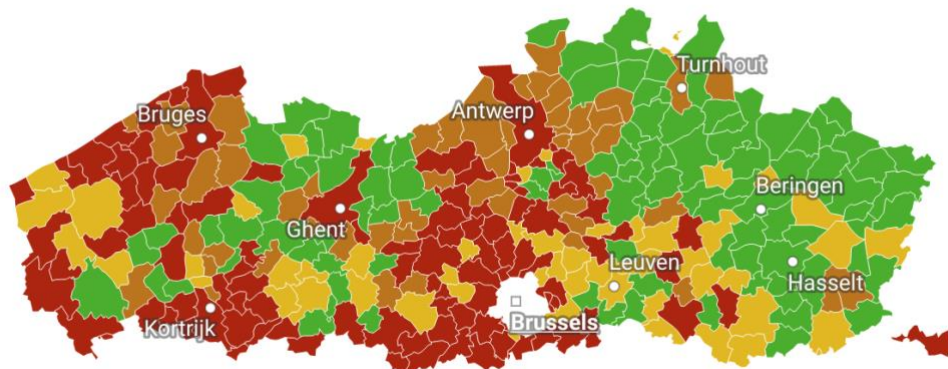
Group 1 Group 2 Group 3 Group 4



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BC/CRC screening uptake: municipality profiles 2017

Group 1 Group 2 Group 3 Group 4



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