

**Supplementary Table . Quality assessment of studies using a modified Newcastle-Ottawa scale**

**Table S1. Quality assessment of studies using a modified Newcastle-Ottawa scale-COHORT STUDIES**

Quality assessment criteria	Accetable (*)	Botma et al.	Movahedi et al.	Win et al.
<i>Selection</i>				
Representativeness of exposed cohort?	Cancer registries/Amsterdam diagnostic criteria	*	*	*
Selection of the non-exposed cohort?	Same setting as exposed cohort	*	*	*
Ascertainment of exposure?	Measured BMI			
Demonstration that outcome of interest was not present at start of study?	Information about previously colonoscopies and adenomatous polyp occurrences	*	*	*
<i>Comparability</i>				
Stratification for possible modifier of risk	Study stratify for sex	*	*	
Study controls for at least 3 additional risk factors?	Adjusted for age, smoking habits, alcohol intake, aspirin and/or genes	*	*	*
<i>Outcome</i>				
Assessment of outcome?	Secure record or directly measured of colorectal cancer histology		*	*
Was follow-up long enough for outcome to occur?		*	*	*
<b>Total Score</b>		6	7	6

BMI: Body Mass Index

Each star (\*) denotes a fulfilled quality assessment criteria

**Table S2. Quality assessment of studies using a modified Newcastle-Ottawa scale-CASE-CONTROL STUDY**

Quality assessment criteria	Accetable (*)	Campbell et al.
<i>Selection</i>		
Is the case definition adequate?	Pathology-confirmed International Classification of colorectal cancer	*
Representativeness of cases?	Cancer registries/Amsterdam diagnostic criteria	*
Selection of controls?	Same setting as exposed cohort	
Definition of controls?	No evidence of disease	
<i>Comparability</i>		
Stratification for possible modifier of risk	Study stratify for sex	*
Study controls for at least 3 additional	Adjusted for age, smoking habits, alcohol intake, aspirin and/or genes	

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risk factors?		
<i>Outcome</i>		
Ascertainment of exposure?	Measured BMI	
Same method of ascertainment of cases/controls?		*
Non-response rate?		*
<b>Total score</b>		5

*Each star (\*) denotes a fulfilled quality assessment criteria*