

Electronic supplementary material

Table E1. The quality assessment of the included studies by Newcastle–Ottawa scale

Quality assessment of cross-sectional studies					
Study first author	Year	Selection*****a	Comparability**b	Assessment of exposure***c	Risk of Bias
S. Delshad Aghdam	2021	****	**	***	Low
F. Dehghani Firouzabadi	2021	****	**	***	Low
R. Sadat Ziaee	2021	**	**	***	Medium
E. Asgari	2021	****	**	***	Low
M. Kim	2020	****	**	***	Low
O. Eslami	2020	**	**	***	Medium
Z. Bahadoran	2013	**	**	***	Medium
H. K. Vincent	2010	*	*	**	High
Quality assessment of Case-control studies					
Study first author	Year	Selection****d	Comparability**e	Assessment of exposure****f	Risk of Bias
M. Abshirini	2018	**	**	***	Medium
Quality assessment of Cohort studies					
Study first author	Year	Selection****g	Comparability**h	Assessment of outcome****i	Risk of Bias
F. Azizi-Soleiman	2020	***	**	***	Low
J Im	2020	**	**	***	Medium
M. Golzarand	2015	**	**	***	Medium
Z. Bahadoran	2015	***	**	***	Low
M. Golzarand	2014	***	**	***	Low
A .Mottaghi	2015	***	**	***	Low
P.Mirmiran	2012	***	**	***	Low

a : Representativeness of the sample (*) Sample size (*) Non-respondents (*) Ascertainment of the exposure (risk factor) (**)

b : The subjects in different outcome groups are comparable, based on the study design or analysis. Confounding factors are controlled (**)

c : Assessment of the outcome (**) Statistical test (*)

d : Is the case definition adequate? (*) Representativeness of the cases (*) Selection of Controls (*) Definition of Controls (*)

e : Comparability of cases and controls on the basis of the design or analysis (**)

f : Ascertainment of exposure (*) Same method of ascertainment for cases and controls (*) Non-Response rate (*)

g: Representativeness of the exposed cohort (*) Selection of the non-exposed cohort (*) Ascertainment of exposure (*) Demonstration that outcome of interest was not present at start of study (*)

h: Comparability of cohorts on the basis of the design or analysis (**)

i : Assessment of outcome (*) Was follow-up long enough for outcomes to occur (*) Adequacy of follow up of cohorts (*)