

**Supplementary Table S1.** Quality assessment of included studies using the Newcastle–Ottawa Quality Assessment Scale for cross-sectional study.

Author	SELECTION				COMPARABILITY	OUTCOME		Total scores
	Representativeness of the samples	Sample size	Non-responders	Ascertainment of the exposure (risk factor)	A: study controls for age and/or BMI B: control for any additional factor	Assessment of the outcome a) Independent blind assessment. ** b) Record linkage. ** c) Self report. *	Statistical test	
Mahboobifard et al, 2021	*	*	*	*	*	**	*	8
Salem et al, 2015	*	*				**	*	5
Yasar et al, 2022	*			*	**	**	*	7
Sahmay et al, 2013		*		*	**	*	*	6
Yang, 2020	*		*	*		*	*	5
Glintborg et al. 2014		*		*	*	**	*	6
Jiang et al, 2021		*	*	*	*	*	*	6
Noroozzadeh et al. 2016	*	*	*	*	*	**	*	8
Yang, 2021		*	*	*	**	**	*	8
Güdücü et al, 2012		*	*	*	*	**	*	7

**Supplementary Table S2.** Quality assessment of included studies using the Newcastle–Ottawa Quality Assessment Scale for case-control study.

	SELECTION				COMPARABILITY	EXPOSURE			Total scores
Author	case definition	Representativeness of the cases	Selection of Controls	Definition of Controls	A: study controls for age and/or BMI B: control for any additional factor	Ascertainment of exposure	Same method of ascertainment for cases and controls	Non-Response rate	
Calzada, 2019	*			*	*	*	*		5
Katulski, 2014	*			*	**	*	*		6
Erol, 2017	*			*	*	*	*	*	6
Khashchenko, 2020	*			*	*	*	*	*	6
He et al, 2020	*			*	**	*	*	*	7
Oncul 1, 2020	*			*	**	*	*	*	7
Sharif, 2017	*			*	**	*	*	*	7
Panidis, 2005	*			*	*	*	*	*	6
Piouka,2009	*			*	*	*	*	*	6
Yilmaz , 2015	*			*	*	*	*		5
Arpaci,2018	*			*	*	*	*	*	6
Yue, 2018	*			*	*	*	*	*	6
Banaszewska,2020	*			*	**	*	*	*	7
Zohrabi,2017	*			*	**	*	*		6
de-Medeiros,2017	*			*	*		*	*	5
Wang,2008	*			*	*	*	*	*	6
Özcan,2012	*			*	*	*	*	*	6
Rahmani,2018	*			*	**	*	*	*	7
Topcu, 2006	*			*	**	*	*	*	7
Su et al, 2011	*			*	**	*	*	*	7

**Supplementary Table S3:** Quality assessment of studies included using the Newcastle–Ottawa Quality Assessment Scale for cohort studies

	SELECTION				COMPARABILITY	OUTCOME			Total scores
Item  Author, Year	Representativeness of the exposed cohort	Selection of the non-exposed cohort	Ascertainment of exposure	No outcome of interest at start of study	A: Study controls for age and/or BMI  B: Study controls for other confounders	A: doctor's diagnosis OR objective measurements  B: parent/self-reported doctor's diagnosis OR use of medication	Follow-up long enough for outcomes	Adequacy of follow up of cohorts	
Kim,2022		*		*	**	*	*	*	8*
Rashidi,2016		*	*	*	*	*	*	*	7*