

Table 1 Characteristics of the studies on stimulant use among high-school students, university students and other young populations

Author (Date)	Language of report	Year of study	City/ province	Sample size	Response rate (%)	Settings/participants	Mean age (range) (years)	Sampling	Self-report/ Anonymous
University students									
Moasheri et al. (2007) (20)	Farsi	2004	Birjand	536	NS	Azad University medical sciences, other sciences/ undergraduate students	20.6 (NS)	Multistage random	NS
Amiri et al. (2009) (21)	English	2005	Astara	1380	88.8	Azad University/ undergraduate students	24.2 (18–46)	Stratified random	Yes/Yes
Zarrabi et al. (2009) (24)	English	2005–2006	Rasht	827	NS (2.2% incomplete questionnaires)	Medical sciences university/ undergraduate students	22.1 (14–40)	Simple Sampling	Yes/Yes
Taremian et al. (2008) (45)	Farsi	2005–2006	Tehran	2997	NS	6 universities of other sciences/undergraduate students	NS	Probability sampling	Yes/Yes
Mansourian et al. (2009) (46)	Farsi	2006	Gorgan	300	NS	Medical and other sciences university/under and postgraduate students	20.95 (18–29)	Simple random	NS
Amin-Esmaeili et al. (2016) (25)	English	2006	Tehran	1761	96.8	Medical sciences university/ undergraduate students	20.4 (15–43)	Census	Yes/Yes
Shams Alizadeh et al. (2008) (22)	Farsi	2006–2007	Kurdistan	1186	89.2	Medical sciences university/ under and postgraduate	NS	Census	Yes/Yes
Amin-Esmaeili et al. (2016) (25)	English	2007	Tehran	1741	96.1	Medical sciences university/ undergraduate students	20.2 (16–41)	Census	Yes/Yes
Sajjadi et al. (2009) (47)	Farsi	2008	Gonabad	350	100	Medical sciences, Payam-Noor and Azad University/ undergraduate students	21.9 (NS)	Multistage random	NS
Amin-Esmaeili et al. (2016) (25)	English	2008	Tehran	1755	90.7	Medical sciences university/ undergraduate students	20.2 (17–42)	Census	Yes/Yes
Amin-Esmaeili et al. (2016) (25)	English	2009	Tehran	1568	90.6	Medical sciences university/ undergraduate students	20.1 (15–40)	Census	Yes/Yes
Taremian et al. (2014) (45)	English	2009–2010	Tehran	4000	NS (418 incomplete questionnaires)	Medical sciences university/ under and post-graduate	NS	Stratified random	Yes/Yes
Barati et al. (2012) (15)	Farsi	2011	Hamadan	500	80	Medical sciences, other sciences and Azad University/ under and postgraduate students	NS (21–45)	Probability sampling	Yes/Yes
Pirzadeh et al. (2012) (23)	English	2011	Isfahan	267	100	Medical sciences university/ undergraduate students	20.95 (NS)	Stratified random	No/No
Abbasi Ghahremanloo (2014) (48) and Abbasi-Ghahramanloo et al. (2015) (18)	English	2012–2013	Tehran	2212	90.5	Medical sciences university/ undergraduate	21.16 (16–44)	Stratified random	Yes/Yes
Safiri et al. (2016) (19)	English	2015	Tabriz	1777	93.7	Medical sciences university/ under and post-graduate students	NS	Multistage random	Yes/NS
Roshandel et al. (2010) (17)	English	NS	Guilan	254	NS	Medical sciences university	NS	Stratified random	Yes/NS
High-school students									
Najafi et al. (2005) (49)	Farsi	2003–2004	Rasht	1500	NS (26 incomplete questionnaires)	High school/1st–3rd grade and pre-university students	NS	Multistage random	Yes/Yes
Mohammadkhani (2012) (26)	Farsi	2005–2006	10 provinces	2680	NS (150 incomplete questionnaires)	Middle & high School/ 2nd and 3rd middle School and 1st grade of high school students	(13–18)	Multistage random	Yes/NS
Naderifar et al. (2011) (50)	Farsi	2008	Zahedan	837	NS	High school/pre-university students	18	Multistage random	Yes/NS
Alaee et al. (2011) (27)	Farsi	2010	Karaj	447	NS	High school/1st–3rd grade students	16.5 (NS)	Multistage random	Yes/Yes
Bidel et al. (2014) (28)	Farsi	2011–2012	Ilam	1000	93.7	High school/2nd grade students	16.2 (12–22)	Stratified random	Yes/Yes
Other young populations									
Barooni et al. (2008) (29)	Farsi	2004	Tehran	2000	95.2	Coffee shops/youth 15–25 years	21.03 (15–25)	Non-probability	Yes/NS
Angoorani et al. (2012) (30)	English	2007–2008	Tehran	930	90.6	Gym clubs/male body-builders	25.2 (16–40)	Multistage random	No/No