

Table 1: Variables and Measurement of the TRA Waterpipe Questionnaire

Variable	Measure	Scale	Scoring	Measurement Level	Interpretation
Intention Chronbach Alpha Reliability Coefficient for Scale: .944	Intention to smoke tobacco using a waterpipe three months from now	Three 7-point semantic differential evaluative scales including “true/false”, likely/unlikely, and probably/probably-not	Range of scores are from +3 to -3	Continuous scale	Average of the three responses is the intention score.
Attitude Chronbach Alpha Reliability Coefficient for Scale: .945	Attitude toward “my smoking tobacco using a waterpipe”	Three 7-point semantic differential evaluative scales including “pleasant/not-pleasant”, nice/awful, and fun/not fun	Range of scores are from +3 to -3	Continuous scale	The sum of the three scores is the attitude score
Subjective Norm	“If I smoke tobacco using a waterpipe most people that are important to me would...”	One 7-point semantic differential evaluative scale ranging from “approve/disapprove”	Range of scores are from +3 to -3	Continuous scale	The response to this question will represent the direct subjective norm scale
Behavioral Beliefs Chronbach Alpha Reliability Coefficient for Scale: .764	Modal Beliefs about waterpipe smoking (eg. waterpipe smoking is relaxing) and the corresponding evaluation of each of the beliefs (eg. If I do things that are relaxing that is...)	Total of 20 7-point semantic differential evaluative scales; 10 for modal beliefs ranging from “likely to unlikely” and 10 for outcome evaluation ranging from “desirable to undesirable”	Range of scores are +3 to -3	Continuous scale	The score is obtained by multiplying each of the ten modal beliefs by the corresponding outcome evaluation followed by summing the products.
Normative Beliefs Chronbach Alpha Reliability Coefficient for Scale: .768	Perception beliefs about approval or disapproval of smoking from five significant others (eg, parents, friends) and the corresponding motivation to comply with the determined significant others	Total of 10 7-point semantic differential evaluative scales; 5 for perceptions of others ranging from “approve to disapprove” and 5 for motivation to comply ranging from “disagree to agree”	Range of scores for perception beliefs are +3 to-3; Unipolar scoring ranging from +1 to +7 was used measure motivations to comply.	Continuous scale	The score will be obtained by multiplying the normative belief by the corresponding motivation to comply and summing the products.

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