

Appendix 1. Quality assessment of the included qualitative studies

Questions	Grundy, Quinn. et al. (26)	Grundy, Q. et al. (29)	Fabbri, A. et al. (30)	Bélisle-Pipon, J. C. et al. (31)	Nissanholtz-G, R. et al. (34)	Grundy, Q. et al. (15)	Agarwal, P. et al. (38)	Chappell, N. et al. (39)	Kamal, S. et al. (42)	Nguyen, N. Y. et al. (47)
Is there congruity between the stated philosophical perspective and the research methodology?	Yes	Yes	Yes	Yes	Yes	Yes	Unclear	Yes	Yes	Yes
Is there congruity between the research methodology and the research question or objectives?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Is there congruity between the research methodology and the methods used to collect data?	Yes	Unclear	Yes	Unclear	Yes	Yes	Unclear	Yes	Yes	Yes
Is there congruity between the research methodology and the representation and analysis of data?	Yes	Unclear	Yes	Yes	Yes	Yes	Unclear	Unclear	Yes	Yes
Is there congruity between the research methodology and the interpretation of results?	Yes	Yes	Yes	Unclear	Yes	Yes	Yes	Unclear	Yes	Unclear
Is there a statement locating the researcher culturally or theoretically?	Unclear	Unclear	Unclear	Yes	Yes	No	Yes	No	No	No
Is the influence of the researcher on the research, and vice-versa, addressed?	Yes	Yes	No	No	Yes	Yes	Unclear	No	Yes	Unclear
Are participants, and their voices, adequately represented?	Yes	Not Applicable	Yes	Yes	Yes	Yes	Unclear	Yes	Yes	Yes
Is the research ethical according to current criteria or, for recent studies, and is there evidence of ethical approval by an appropriate body?	Yes	No	Not applicable	Yes	Not applicable	Yes	Yes	No	No	No
Do the conclusions drawn in the research report flow from the analysis, or interpretation, of the data?	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes
Total score	9	5	6	7	8	9	5	5	8	6

Quality assessment of the included qualitative studies

Questions	Miller, S. L. ET AL (25)	Hughes, D. et al. (49)	Al-Areefi, M. A. et al. (55)	Hutchins , J. C. et al. (54)	Lexchi n, J. et al. (58)	Cosgrove, L. et al. (59)	Bruyere, O. et al. (61)	Chimonas, S. et al. (65)
Is there congruity between the stated philosophical perspective and the research methodology?	Yes	Yes	Yes	Unclear	Yes	Yes	Yes	Yes
Is there congruity between the research methodology and the research question or objectives?	Unclear	Unclear	Yes	Yes	Yes	Unclear	Yes	Yes
Is there congruity between the research methodology and the methods used to collect data?	Yes	Yes	Yes	Yes	No	Unclear	Yes	Yes
Is there congruity between the research methodology and the representation and analysis of data?	Yes	Yes	Yes	Yes	Yes	Unclear	Yes	Yes
Is there congruity between the research methodology and the interpretation of results?	Unclear	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Is there a statement locating the researcher culturally or theoretically?	Yes	Yes	Yes	No	No	Yes	No	No
Is the influence of the researcher on the research, and vice- versa, addressed?	No	No	No	No	No	Yes	Yes	Yes
Are participants, and their voices, adequately represented?	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Is the research ethical according to current criteria or, for recent studies, and is there evidence of ethical approval by an appropriate body?	Yes	Yes	No	Yes	No	No	No	Yes
Do the conclusions drawn in the research report flow from the analysis, or interpretation, of the data?	No	No	Yes	No	No	Yes	Yes	No
Total score	6	7	8	6	5	5	8	8

Quality assessment of the included cross-sectional studies

Questions	Lau, E. et al. (28)	Rhéaume. Et al. (32)	D.Young, et al. (33)	King, M. et al. (35)	Cosgrove, L. (36)	Ammous, A. et al. (37)	Sierles, F. S. et al. (40)	Dowers, K. L. et al. (41)	Pham-Kanter, G. et al. (43)	Montastruc, F. et al. (44)	Jahnke, K. et al. (45)	Larkin, Ian. et al. (46)	King, M. et al. (48)	Epstein, A. J. et al. (50)
Were the criteria for inclusion in the sample clearly defined?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Unclear	Yes	Yes
Were the study subjects and the setting described in detail?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Was the exposure measured in a valid and reliable way?	Unclear	Yes	Yes	Yes	Unclear	Yes	Yes	Yes	Unclear	Yes	Yes	Unclear	Yes	Yes
Were objective, standard criteria used for measurement of the condition?	Unclear	Unclear	Yes	Yes	Yes	Yes	Unclear	Yes	Yes	Yes	Yes	Yes	Yes	Unclear
Were confounding factors identified?	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes	Yes	Yes	No	Yes	No
Were strategies to deal with confounding factors stated?	Unclear	Yes	Yes	No	No	Yes	Yes	No	Yes	Yes	Yes	No	Yes	No
Were the outcomes measured in a valid and reliable way?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Was appropriate statistical analysis used?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Unclear
Total score	5	7	8	6	5	8	7	6	7	8	8	4	8	4

Quality assessment of the included cross-sectional studies

Questions	Chimonas, S. et al. (51)	Austad, K. E. (52)	Mustafa A. et al. (55)	Mason, P. R. et al. (56)	Chimonas, S. et al, (57)	Campbell, E. G. et al. (60)	Hartung DM. et all. (62)	Britta L. et al. (63)	Newcombe, J. P. et al. 2007. (64)	Cosgrove, L. et al. (66)	Ball, D. E. et al. (67)	Keim, S. M. et al. (68)	Choudhry, N. K. et al. (69)	Fabbri A, et al. (27)
Were the criteria for inclusion in the sample clearly defined?	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Were the study subjects and the setting described in detail?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Was the exposure measured in a valid and reliable way?	Yes	Yes	Yes	Yes	Yes	Unclear	Unclear	Yes	Unclear	Yes	Unclear	Yes	Yes	Yes
Were objective, standard criteria used for measurement of the condition?	Yes	Yes	Yes	Yes	Unclear	Yes	Yes	Yes	Yes	Unclear	Yes	Yes	Yes	Yes
Were confounding factors identified?	No	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes
Were strategies to deal with confounding factors stated?	No	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	Unclear
Were the outcomes measured in a valid and reliable way?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Unclear	Yes	Yes	Yes
Was appropriate statistical analysis used?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Total score	5	8	8	5	7	7	7	5	5	5	6	8	8	7