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Appendix

TABLE E-1 Quality Assessment of Included Case Series Using the NIH Quality Assessment Tool*

TIBEL I Quarty Hissessmen	Responses (Evaluator 1/Evaluator 2)										
Study	Item 1	Item 2	Item 3	Item 4	Item 5	Item 6	Item 7	Item 8	Item 9	Overall Quality	Consensus
Amstutz and Maki (1978) ¹⁰	+/+	-/-	+/+	CD/CD	+/+	+/+	+/+	NA/NA	+/+	Fair/fair	Fair
Amstutz et al. (1984) ⁹	+/+	-/-	+/+	CD/CD	+/+	+/+	+/+	+/NA	+/+	Fair/fair	Fair
Bal et al. (1998) ¹¹	+/+	-/-	+/+	CD/CD	+/+	+/+	+/+	+/+	+/+	Fair/good	Fair
Barrack and Butler (2005) ¹²	+/+	+/-	+/+	+/+	+/+	+/+	+/+	+/+	+/+	Good/good	Good
Berry and Muller (1993) ¹³	+/+	+/-	+/-	+/+	+/+	+/+	+/+	NA/NA	+/+	Good/fair	Good
Boardman et al. (1978) ¹⁴	+/+	-/-	+/+	CD/CD	+/+	+/-	+/+	NA/NA	+/+	Fair/fair	Fair
Browne and Sheehan (1986) ¹⁵	-/+	-/-	+/+	CD/CD	+/+	+/+	+/+	NA/NA	+/+	Fair/fair	Fair
Charnley (1972) ¹⁶	-/+	-/-	+/+	CD/+	+/+	+/-	+/+	NA/NA	+/+	Fair/fair	Fair
Chen et al. (2000) ¹⁷	+/+	+/+	+/+	+/+	+/+	+/+	+/+	+/+	+/+	Good/good	Good
Chilvers et al. (2002) ¹⁸	+/+	+/+	+/+	+/+	+/+	+/+	+/+	NA/NA	+/+	Good/good	Good
Clarke et al. (1979) ¹⁹	+/+	-/-	+/+	CD/CD	+/+	+/+	+/+	NA/NA	+/+	Fair/fair	Fair
Dall and Miles (1983) ⁴	+/+	-/-	+/-	CD/CD	+/+	+/-	+/+	NA/NA	+/-	Fair/poor	Fair
Fernandez et al. $(2017)^{21}$	+/+	+/+	+/-	+/+	+/+	+/+	+/+	NA/NA	+/+	Good/good	Good
Frankel et al. (1993) ²²	-/+	+/-	+/+	+/+	+/+	-/-	+/+	+/+	+/+	Fair/fair	Fair
Gottschalk et al. (1988) ²³	+/+	+/+	+/+	+/+	+/+	+/+	+/+	+/+	-/+	Fair/good	Good
Hamadouche et al. (2003) ²⁴	+/+	+/+	+/+	+/+	+/+	+/+	+/+	+/+	+/+	Good/good	Good
Harris and Crothers (1978) ²⁵	-/+	-/-	+/+	CD/CD	+/+	+/+	+/+	NA/NA	+/+	Poor/fair	Fair
Hartofilakidis et al. $(2011)^{26}$	+/+	+/+	+/+	+/+	+/+	+/+	+/+	+/+	+/+	Good/good	Good
Hasler et al. (2014; abstract) ²⁷	+/+	+/+	+/+	+/+	+/CD	+/+	+/+	NA/NA	+/+	Good/good	Good
Horwitz et al. (1993) ²⁸	+/+	+/+	+/+	+/+	+/+	+/+	+/+	+/+	+/+	Good/good	Good
Huffman and Ries (2003) ²⁹	+/+	+/+	+/+	+/+	+/+	+/+	+/+	+/+	+/+	Good/good	Good
Imagama et al. (2016; abstract) ³⁰	+/+	-/-	NR/NR	CD/CD	+/CD	+/-	+/+	NA/NA	+/+	Fair/fair	Fair
Jensen and Harris (1986) ³¹	+/+	+/+	+/+	+/+	+/+	+/-	+/+	NA/NA	+/+	Good/fair	Good
Johnston (1973) ³²	-/-	+/-	+/+	+/+	+/-	+/+	+/+	NA/NA	+/-	Fair/poor	Fair
Kim et al. (2017) ³	+/+	+/+	+/+	+/+	+/+	+/+	+/+	+/+	+/+	Good/good	Good
Koyama et al. (2001) ³⁴	+/+	+/+	+/+	+/+	+/+	-/-	+/+	+/+	+/+	Fair/fair	Fair
Laflamme et al. (2012) ³⁵	+/+	+/+	+/+	+/+	+/+	-/-	+/+	+/+	+/+	Fair/fair	Fair
Lakstein et al. (2010) ³⁷	+/+	+/+	-/+	+/+	+/+	+/+	+/+	+/+	+/+	Good/good	Good

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Wang et al. (2005) ⁵⁹ +/+ +/+ +/+ +/+ +/+ +/+ +/+ NA/NA +/+ Good/good Good Weaver (1975) ⁶⁰ +/+ -/- NR/NR CD/CD +/+ +/+ NA/NA +/+ Poor/fair Fair Whiteside (2006) ⁶⁴ -//- NR/- CD/CD +/+ +/- NR/N NA/NA -/- Poor/poor Poor	1 450 2											
Lindgren and Svenson	Lakstein et al. (2010) ³⁸	+/+	+/+	-/+	+/+	+/+	+/+	+/+	NA/+	+/+	Fair/good	Good
(1988) 39	Lakstein et al. (2010) ³⁶	+/+	+/+	-/+	+/+	+/+	+/+	+/+	+/+	+/+	Good/good	Good
McCarthy et al. (1999) ⁴¹		+/+	+/+	+/+	+/+	+/+	+/+	+/+	NA/NA	-/+	Fair/good	Good
Morshed et al. (2005) ⁴²	Mardones et al. (2005) ⁴⁰	+/+	+/+	+/-	+/+	+/+	+/+	+/+	NA/NA	+/+	Good/good	Good
Nercessian et al. (1996) ⁴³	McCarthy et al. $(1999)^{41}$	+/+	-/-	-/+	CD/CD	+/+	+/+	+/+	+/+	+/+	Fair/fair	Fair
Nezry et al. (2003) ⁴⁴	Morshed et al. (2005) ⁴²	+/+	+/+	+/+	+/+	+/+	+/+	+/+	+/+	+/+	Good/good	Good
Nicholson et al. (2001) ⁶³	Nercessian et al. $(1996)^{43}$	+/+	+/+	+/+	+/+	+/+	+/+	+/+	+/+	+/+	Good/good	Good
Nikolopoulos et al. (2010;	Nezry et al. (2003) ⁴⁴	+/+	+/+	+/NR	+/+	+/+	-/-	+/+	NA/NA	-/+	Fair/fair	Fair
abstract)\(^{45}	Nicholson et al. (2001) ⁶³	+/+	+/+	-/+	+/+	+/+	-/-	+/+	NA/NA	+/+	Fair/fair	Fair
Panousis et al. (2004) ⁴⁷	-	+/+	+/+	+/NR	+/+	+/+	+/+	+/+	NA/NA	-/+	Fair/good	Good
Panousis et al. (2004) ⁴⁷	Ozan et al. (2014) ⁴⁶	+/+	+/+	+/-	+/+	+/+	-/-	+/+	+/+	-/+	Fair/fair	Fair
Ritter et al. $(1991)^{49}$		+/+	+/+	+/+	+/+	+/+	+/-	+/+	NA/NA	+/+	Good/fair	Good
Schutzer and Harris (1988) ⁵⁰ +/+ +/+ +/+ +/+ +/+ +/+ +/+ +/+ +/+ +/	Patel et al. (2012) ⁴⁸	+/+	+/+	+/NR	+/+	+/+	+/+	+/+	+/+	+/+	Good/good	Good
Schutzer and Harris (1988) ⁵⁰ Silverton et al. (1996) ⁵² +/+ +/+ +/+ +/+ +/+ +/+ +/+ +/+ +/+ +	Ritter et al. (1991) ⁴⁹	-/+	+/+	+/+	+/+	+/+	+/+	+/+	+/+	-/-	Fair/fair	Fair
Stefanich and Jabbur	Schutzer and Harris	+/+	+/+	+/+	+/+	+/+	+/-	+/+	NA/NA	+/+	Good/fair	Good
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Silverton et al. (1996) ⁵²	+/+	+/+	+/+	+/+	+/+	+/+	+/+	NA/NA	+/+	Good/good	Good
Takahira et al. $(2010)^{55}$ +/+ +/+ +/+ +/+ +/+ +/+ +/+ +/+ +/+ +/		+/+	+/-	+/NR	+/+	+/+	+/+	+/+	-/+	+/+	Fair/good	Good
Tetreault and McGrory $+/+$ $+/+$ $+/+$ $+/+$ $+/+$ $+/+$ $+/+$ $+/+$ $+/+$ $+/+$ $+/+$ $+/+$ $+/+$ $+/+$ $+/+$ Good/good Good Wighter Graph $+/+$ $+/+$ $+/+$ $+/+$ $+/+$ $+/+$ $+/+$ $+/+$ $+/+$ $+/+$ $+/+$ $+/+$ $+/+$ Good/good Good Wayer $+/+$	Stewart et al. (2017) ⁵⁴	+/+	+/+	+/-	+/+	+/+	+/+	+/+	+/+	+/+	Good/good	Good
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Takahira et al. (2010) ⁵⁵	+/+	+/+	+/+	+/+	+/+	+/+	+/+	+/+	+/+	Good/good	Good
Volz and Turner (1975)65 -/- -/- NR/NR CD/CD +/+ -/- NR/NR NA/NA -/- Poor/poor Poor (excluded conditions) Wang et al. (2005)59 +/+ +/+ +/+ +/+ +/+ +/+ NA/NA +/+ Good/good Good Weaver (1975)60 +/+ -/- NR/NR CD/CD +/+ +/+ NA/NA +/+ Poor/fair Fair Whiteside (2006)64 -/- -/- NR/- CD/CD +/+ +/- NR/N NA/NA -/- Poor/poor Poor	_	+/+	+/+	+/+	+/+	+/+	+/+	+/+	+/+	+/+	Good/good	Good
Wang et al. (2005) ⁵⁹ +/+ +/+ +/+ +/+ +/+ +/+ +/+ +/+ NA/NA +/+ Good/good Good Weaver (1975) ⁶⁰ +/+ -/- NR/NR CD/CD +/+ +/+ +/+ NA/NA +/+ Poor/fair Fair Whiteside (2006) ⁶⁴ -//- NR/- CD/CD +/+ +/- NR/N NA/NA -/- Poor/poor Poor	Vicar and Coleman (1984) ⁵⁸	+/+	+/+	+/-	+/+	+/+	+/+	+/+	+/+	+/+	Good/good	Good
Weaver (1975) ⁶⁰ +/+ -/- NR/NR CD/CD +/+ +/+ NA/NA +/+ Poor/fair Fair Whiteside (2006) ⁶⁴ -/- -/- NR/- CD/CD +/+ +/- NR/N NA/NA -/- Poor/poor Poor	Volz and Turner (1975) ⁶⁵	-/-	-/-	NR/NR	CD/CD	+/+	-/-		NA/NA	-/-	Poor/poor	Poor (excluded)
Weaver (1975) ⁶⁰ +/+ -/- NR/NR CD/CD +/+ +/+ NA/NA +/+ Poor/fair Fair Whiteside (2006) ⁶⁴ -/- -/- NR/- CD/CD +/+ +/- NR/N NA/NA -/- Poor/poor Poor	Wang et al. (2005) ⁵⁹	+/+	+/+	+/+	+/+	+/+	+/+	+/+	NA/NA	+/+	Good/good	
		+/+	-/-	NR/NR	CD/CD	+/+	+/+	+/+	NA/NA	+/+	Poor/fair	Fair
	` '			NR/-	CD/CD		+/-	NR/N R	NA/NA	-/-	Poor/poor	Poor (excluded)
Zarin et al. $(2009)^{62}$ +/+ +/+ +/NR +/+ +/+ +/+ +/+ +/+ Good/good Good	Zarin et al. (2009) ⁶²	+/+	+/+	+/NR	+/+	+/+	+/+	+/+	+/+	+/+	Good/good	

^{*}+ = yes, - = no, CD = cannot determine, NA = not applicable, and NR = not reported.

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TABLE E-2 Quality Assessment of Included Cohort Studies Using the NIH Quality Assessment Tool*

TABLE E-2 Quality Assessmen	ABLE E-2 Quanty Assessment of included Conort Studies Using the NTH Quanty Assessment 1001									
	Responses (Evaluator 1/Evaluator 2)									
		Kelley and								
	Emerson et al.	Johnston	Shah and Prasad	Teanby et al.	Wroblewski and					
	$(2001)^{20}$	$(1992)^{33}$	$(2003)^{51}$	$(1996)^{56}$	Shelley (1985) ⁶¹					
Item 1	-/+	+/+	+/+	-/+	+/-					
Item 2	+/+	+/-	+/+	+/+	+/-					
Item 3	NA/NR	NA/NR	NA/NR	NA/NR	NA/NR					
Item 4	-/-	-/-	NR/+	NR/+	NR/-					
Item 5	+/-	+/-	-/-	-/-	-/-					
Item 6	+/+	+/+	+/+	+/+	+/+					
Item 7	+/+	+/+	+/+	+/+	+/+					
Item 8	NA/NR	NA/NR	NA/NR	NA/NR	NA/NR					
Item 9	+/+	+/+	+/+	+/+	+/+					
Item 10	-/-	-/-	-/-	-/-	-/-					
Item 11	+/+	+/+	+/+	+/+	+/+					
Item 12	-/-	-/-	-/-	-/-	-/-					
Item 13	+/+	+/+	+/NR	+/NR	NR/NR					
Item 14	-/-	-/-	-/-	-/-	-/-					
Overall quality	Fair/good	Good/fair	Good/good	Fair/good	Fair/fair					
Consensus	Good	Good	Good	Fair	Fair					

^{*-} = no, + = yes, NA = not applicable, and NR = not reported.