

Supplemental file S4: Scales used to measure psycho-educational outcomes in included trials

First author (publication year)	Educational outcomes	Psychosocial outcomes
Bloomfield (1990)	Diabetes knowledge scale (1)	Strandford-Binet/Wechesler Intelligence scales [‡] (no ref) Rutter Behavior Scale (2) [‡] Social Maturity Scale (3) [‡] Child responsibility in diabetes management & family life [‡] (no ref)
Howells (2002)	Diabetes knowledge scale (DKN) (4)	Self-efficacy for diabetes (SED) (5) Environmental barriers to adherence questionnaire (BA) (6) Social problem solving inventory (PS) (7)
Franklin (2006)	Diabetes knowledge scale (DKN) (4)	Self-efficacy for diabetes (SED) (5) Diabetes Social Support interview (8)
Channon (2007)	Diabetes knowledge scale (DKN) (1)	Self-efficacy for diabetes (SED) (5) Diabetes Quality of life measure for youths (DQoLY) (9) Child health locus of control (CHLC) (10) Health care climate questionnaire (HCCQ) (11) Well-being questionnaire (WBQ) (12) Personal models of diabetes scale (PMDQ) (13) Diabetes Family Behavior scale (DFBS) (14)
Murphy (2012)		Diabetes Quality of life measure for youths- short form (DQoLY) (15) WHO Health Behavior in School Children (HBSC) (16) Problem Areas in Diabetes scale (PAID) (17) Diabetes Family Responsibility Questionnaire (shorten form) (DFR) (18)
Robling (2012)		Paediatric quality of life inventory: diabetes module (PedsQoL) (19) Patient enablement instrument (PEI) (20) Health care climate questionnaire (HCCQ) (11) Problem Areas in Diabetes scale (PAID) (17) Diabetes continuity of care scale (21) Clinic-related affect (not validated) Importance & confidence in diabetes management (not validated)
Coates (2013)		Perception of control (no ref) Patient empowerment (no ref) Diabetes Quality of life measure for youths (DQoLY) (9) Diabetes care profile (DCP) (no ref)
Doherty (2013)		Diabetes family conflict scale (DFCS) (22) Paediatric Inventory for parents (PIP) (23) Eyberg child behavior inventory (ECBI) (24) Parenting scale (PS) (25) Parenting sense of competence scale (PSOC) (26)
Christie (2014)	Diabetes Knowledge and skills (27)	Paediatric quality of life inventory: generic (PedsQoL-G) and diabetes module (PedsQoL-D) (19) Strengths and difficulties Questionnaire- impact score (SDQ) (28) Diabetes Family Responsibility Questionnaire (DFRQ) (29) Self-efficacy for diabetes (SED) (5)
Price (2016)		Paediatric quality of life inventory: diabetes module (PedsQoL-D) (19) Paediatric quality of life inventory: generic (PedsQoL- G) (30) Self-efficacy for Diabetes (5)

[‡] Results not reported by authors

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