No. of studies	Study design	Sampl e size	MIDs	Effect size (95% CI)	Absolute risk: control	Absolute risk: intervention (95% CI)	Risk of bias	Indirectn ess	Inconsist ency	Imprecis ion	Qualit y
HbA1c (%) at 3 months (<0 favours intervention)											
1 (Deiss 2006)	Parallel RCT	30	+/- 0.50	MD 0.20 (-0.59 <i>,</i> 0.99)	-	-	Very serious1	Not serious	NA4	Very serious7	Very low
HbA1c (mmol/mol) - 6 months (<0 favours intervention)											
2	Parallel RCT	267	+/- 0.50	MD -0.23 (-0.42, -0.04)	-	-	Serious2	Serious3	Serious5	Not serious	Very low
HbA1c relative reduction >10% 6 months (>1 favours intervention)											
2	Parallel RCT	267	0.80 <i>,</i> 1.25	RR 2.91 (1.62, 5.23)	9 per 100	18 more per 100 (6 more to 40 more)	Serious2	Serious3	Not serious	Not serious	Low
HbA1c relative	reduction >	= 5% 6 m	onths (>1 fav	ours interventio	on)						
1 (JDRF 2008)	Parallel RCT	114	0.80 <i>,</i> 1.25	RR 1.73 (1.10, 2.72)	31 per 100	23 more per 100 (3 more to 53 more)	Serious2	Not serious	NA4	Serious8	Low
HbA1c achieved	d target <7.0	0% 3 mon	ths (>1 favou	urs intervention)							
2	Parallel RCT	267	0.80 <i>,</i> 1.25	RR 1.96 (1.10, 3.50)	11 per 100	11 more per 100 (1 more to 27 more)	Serious2	Serious3	Not serious	Serious8	Very low
HbA1c achieved	d target <7.	5% 6 mon	ths (>1 favou	urs intervention)		,					
1 (Laffel 2020)	Parallel RCT	153	0.80 <i>,</i> 1.25	RR 1.37 (0.54, 3.50)	9 per 100	3 more per 100 (4 fewer to 22 more)	Not serious	Serious3	NA4	Very serious7	Very low
Time in range (%) [70 - 180 mg/dL] 6 months (>0 favours intervention)											

	Parallel			MD 6.90			Not				
1 (Laffel 2020)	RCT	153	+/- 5.00	(3.10, 10.70)	-	-	serious	Serious3	NA4	Serious8	Low
Time above range (%) >180 mg/dL 6 months (<0 favours intervention)											
				MD -5.80							
	Parallel			(-10.00, -			Not				
1 (Laffel 2020)	RCT	153	+/- 6.62	1.60)	-	-	serious	Serious3	NA4	Serious8	Low
Time above range (%) >250 mg/dL 6 months (<0 favours intervention)											
				MD -7.90							
	Parallel			(-12.30, -			Not				
1 (Laffel 2020)	RCT	153	+/- 6.94	3.50)	-	-	serious	Serious3	NA4	Serious8	Low
Glycemic variability: coefficient of variation 6 months (<0 favours intervention)											
	Parallel			MD -2.20			Not				
1 (Laffel 2020)	RCT	153	+/- 2.68	(-3.90, -0.50)	-	-	serious	Serious3	NA4	Serious8	Low
Severe hypoglycemia (n) <3.9 mmol/I 6 months (<1 favours intervention)											
						0 fewer per 100					
	Parallel		0.80,	RR 0.92		(4 fewer to 8		Not	Not	Very	Very
2	RCT	267	1.25	(0.34, 2.44)	6 per 100	more)	Serious2	serious	serious	serious7	low
Hypoglycemia f	ear survey -	total 3 n	nonths (<0 fa	vours interventi	on)						
				MD -8.50							
1 (Burckhardt	Crossov			(-12.70, -			Not	Not			Moder
2018)	er RCT	98	+/- 5.30	4.30)	-	-	serious	serious	NA4	Serious8	ate
Hypoglycemia f	ear survey -	behavio	ur 3 months	(<0 favours inte	rvention)						
1 (Burckhardt	Crossov			MD -3.30			Not	Not			Moder
2018)	er RCT	98	+/- 2.15	(-5.00, -1.60)	-	-	serious	serious	NA4	Serious8	ate
Hypoglycemia f	ear survey -	worry 3	months (<0 f	avours interven	tion)						
1 (Burckhardt	Crossov			MD -5.20			Not	Not			Moder
2018)	er RCT	98	+/- 3.66	(-8.10, -2.30)	-	-	serious	serious	NA4	Serious8	ate
Hypoglycemia fear survey - worry 6 months (<0 favours intervention)											
	Parallel			MD 1.60			Not	Not		Not	
1 (JDRF 2010)	RCT	218	+/- 7.33	(-2.36, 5.56)	-	-	serious	serious	NA4	serious	High
Hypoglycemia fear survey - parents 6 months (<0 favours intervention)											

	Parallel			MD 0.30			Not	Not		Not	
1 (JDRF 2010)	RCT	218	+/- 9.32	(-4.22, 4.82)	-	-	serious	serious	NA4	serious	High
Quality of life (PEDS) - generic - 3 months (>0 favours intervention)											
1 (Burckhardt 2018)	Crossov er RCT	98	+/- 4.42	MD 2.60 (-0.90, 6.10)	-	-	Not serious	Not serious	NA4	Serious8	Moder ate
Quality of life (PEDS) - generic - 6 months (>0 favours intervention)											
	Crossov er RCT and Parallel			MD -0.31				Not	Not	Not	Moder
2	RCT	362	+/- 5.92	(-1.77, 1.16)	-	-	Serious2	serious	serious	serious	ate
Quality of life (I	PEDS) - diabe	tes - 3 n	10nths (>0 fa	vours interventi	on)						
1 (Burckhardt	Crossov			MD 2.60			Not	Not			Moder
2018)	er RCT	98	+/- 3.54	(-0.20, 5.40)	-	-	serious	serious	NA4	Serious8	ate
Quality of life (I	PEDS) - diabe	tes - 6 m	nonths (>0 fa	vours interventi	on)						
1 (Hommel 2014)	Crossov er RCT	218	+/- 6.53	MD 1.50 (-1.90, 4.90)	-	-	Not serious	Not serious	NA4	Not serious	High
Quality of life (I	PEDS) - family	, impact	: - 3 months (>0 favours inter	vention)						
1 (Burckhardt	Crossov			MD 2.60			Not	Not			Moder
2018)	er RCT	98	+/- 3.54	(-0.20, 5.40)	-	-	serious	serious	NA4	Serious8	ate
Quality of life (I	PEDS) - gener	ic - pare	ents 6 month	s (>0 favours int	ervention)						
	Crossov er RCT and Parallel			MD -2.00				Not	Very		Very
2	RCT	362	+/- 4.88	(-6.12, 2.12)	-	-	Serious2	serious	serious6	Serious8	low
Quality of life (I	PEDS) - diabe	tes - par	rents 6 mont	hs (>0 favours ir	ntervention)						
	Parallel			MD -1.60			Not	Not			Moder
1 (JDRF 2010)	RCT	218	+/- 4.54	(-5.19, 1.99)	-	-	serious	serious	NA4	Serious8	ate
DASS - Stress - 3 months (<0 favours intervention)											

1 (Burckhardt	Crossov er BCT	98	+/- 2 02	MD -2.20	-	_	Not	Not	NA4	Serious8	Moder
DASS - Anxiety - 3 months (<0 favours intervention)											
1 (Burckhardt	Crossov			MD -1.00			Not	Not			Moder
. 2018)	er RCT	98	+/- 1.89	(-2.50 <i>,</i> 0.50)	-	-	serious	serious	NA4	Serious8	ate
DASS - Depression - 3 months (<0 favours intervention)											
1 (Burckhardt	Crossov			MD -1.10			Not	Not			Moder
2018)	er RCT	98	+/- 1.64	(-2.40, 0.20)	-	-	serious	serious	NA4	Serious8	ate
STAI - state - 3 months (<0 favours intervention)											
1 (Burckhardt	Crossov			MD -3.60			Not	Not			Moder
2018)	er RCT	98	+/- 3.54	(-6.40, -0.80)	-	-	serious	serious	NA4	Serious8	ate
STAI - trait - 3 months (<0 favours intervention)											
1 (Burckhardt	Crossov			MD -3.50			Not	Not			Moder
2018)	er RCT	98	+/- 2.40	(-5.40, -1.60)	-	-	serious	serious	NA4	Serious8	ate
PSQI - 3 months	s (<0 favours	interven	tion)								
1 (Burckhardt	Crossov		_	MD -1.50			Not	Not			Moder
2018)	er RCT	98	+/- 1.26	(-2.50, -0.50)	-	-	serious	serious	NA4	Serious8	ate
PAID-p 6 month	1s (<0 favour	s interve	ntion)								
1 (Burckhardt	Crossov			MD -0.80			Not	Not		Not	
2018)	er RCT	218	+/- 8.24	(-4.78, 3.18)	-	-	serious	serious	NA4	serious	High
DKA (n) 6 mont	hs (<1 favou	rs interve	ention)								
						2 more per 100	•• •		•• •		
2	Parallel	267	0.80,	RR 3.20	1	(0 more to 21	Not	Carlana	Not	Very	Very
2	RCI	267	1.25	(0.34, 30.11)	1 per 100	more)	serious	Seriouss	serious	serious/	IOW
SAE 6 months (<1 favours ir	iterventio	on)			0					
	Darallal		0.00	DD 1 07		0 more per 100	Not			Von	Von
1 (Laffel 2020)	RCT	153	1 25	(0 15 7 39)	3 ner 100	(2 rewer to 10	serious	Serious?	ΝΔΔ	serious7	low
1 (Lanei 2020)	NC1	100	1.25	(0.13, 7.39)	2 hei 100	morej	senious	Sellouss	INA4	senousi	10 W

1. >33.3% of the weight in a meta-analysis came from studies at high risk of bias

2. >33.3% of the weight in a meta-analysis came from studies at moderate or high risk of bias

- 3. >33.3% of the weight in a meta-analysis came from partially direct or indirect studies
- 4. Only one study so no inconsistency
- 5. I2 between 33.3% and 66.7%
- 6. 12 > 66.7%
- 7. 95% confidence intervals cross both ends of the defined MIDs
- 8. 95% confidence intervals cross one end of the defined MIDs