Parenting challenges related to diabetes management and preferences for accessing parenting support

Aditi Lohan Dr Alina Morawska Dr Amy Mitchell Parenting and Family Support Centre University of Queensland Diabetes is a chronic illness in which there are high levels of sugar/ glucose in the blood.

Why does this happen?

Pancreas \Rightarrow Insulin \Rightarrow moves glucose into blood cells (to be used as body fuel)

- o Too little insulin (Type 1 diabetes)
- 。 Resistance to insulin (Type 2 diabetes)

What does management involve?

- Insulin intake (via multiple daily injections or insulin pump)
- o Blood glucose monitoring
- o Diet
- Exercise



Impact of childhood diabetes on parents and family

- o Immediate transfer of responsibility (Coyne & Anderson, 1988)
- Guilt, anxiety, depression, low self efficacy and QOL (Betschart, 1987; Mednick, 2006; Streisand, et al., 2008)
- Impacts every aspect of family life: dietary habits, finances, time spent in management, less time for recreational and social activities (Auslander, Bubb, Rogge, & Santiago, 1993; Banion, Miles, & Carter, 1983; Lowes, et al., 2005)

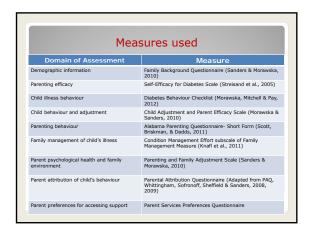
Impact of parenting and family factors on diabetes

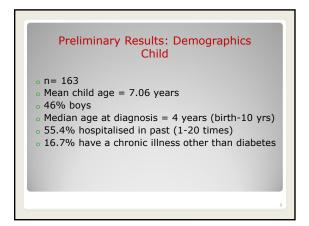
- Parenting and family factors have been associated with poorer child wellbeing (Armstrong, et al., 2011) and increased behaviour problems (Overstreet, et al., 1995)
- Permissive parenting, parental restrictiveness, and family conflict linked with poor adherence and glycemic control (Shorer, et al., 2011; Davis, et al., 2001; Jacobson, et al., 1994; Hauser, et al., 1990)
- Family cohesion and authoritative parenting style are linked to good diabetes control and treatment adherence (Monaghan, Horn, Alvarez, Cogen, & Streisand, 2012; Davis, et al., 2001)

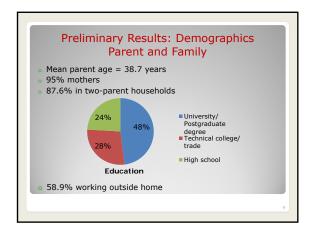


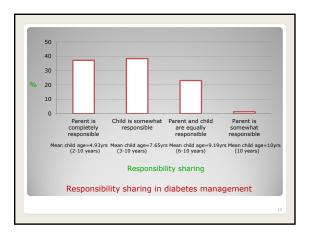
Aims of the present study

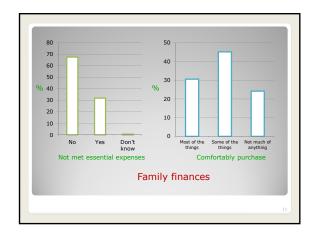
- To understand parental problems related to child diabetes management and behaviour
- To investigate the specific topics and strategies that parents would find most beneficial in a parenting intervention
- To understand relationships between child, parent and family factors, which will aid in the development of a parenting intervention for parents of children with type 1 diabetes

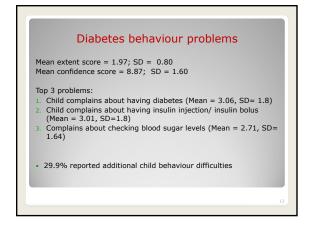


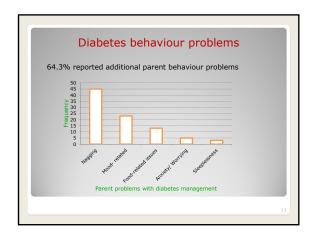


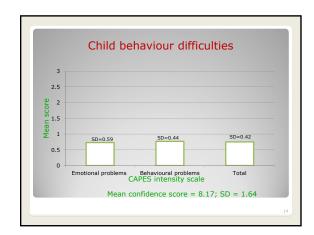


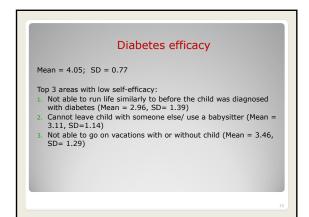


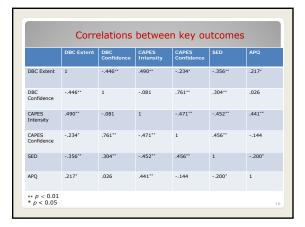


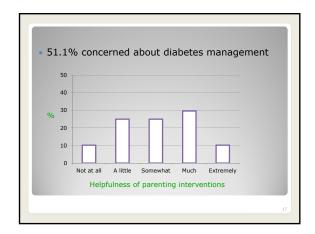


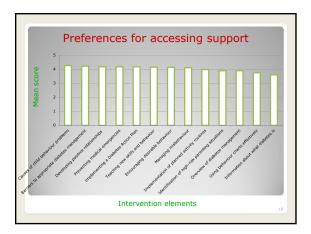


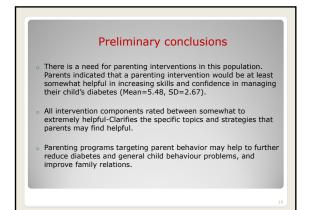














Measures used

i. Family Background Questionnaire (Sanders & Morawska, 2010) to collect demographics

ii. Condition Management Effort subscale of Family Management Measure (Knafl et al., 2011) to assess family management of the child's illness

Internal consistency reliability found to be .74 for mothers and .78 for fathers; test-retest reliability is .81)

5 point scale (Strongly Agree to Strongly Disagree)

Our child's condition requires frequent visits to the clinic.

1 2 3 4 5

Our child's condition is like a roller coaster with lots of ups

1 2 3 4 5

Our child's condition doesn't take a great deal of time to

1 2 3 4 5

It takes a lot of organization to manage our child's condition.

1 2 3 4 5

iii. Self-Efficacy for Diabetes Scale (Streisand et al., 2005) to measure parental efficacy in managing diabetes

22 items; Internal consistency reliability is .87

Please read the following items. After each statement, circle the number from 1 to 5 that shows how much you believe you can or cannot do what is asked now.

Very Sure I Maybe Sure I Very sure can't I can sure I can't Can I can.

Be the one in charge of drawing up and giving the insulin injection/insulin bolus to my child

Checking and keeping track of my child's blood glucose levels

1 2 3 4 5

Recognize and treat a high blood sugar, with or without ketones

1 2 3 4 5

Recognize and treat a high blood sugar, with or without ketones

1 2 3 4 5

Revent my child from having low blood glucose 1 2 3 4 5

levels

iv. Parenting and Family Adjustment Scale (Sanders & Morawska, 2010) to evaluate parent psychological health and family environment

Parental Adjustment (4 items; α=.86), Family Relationships (4 items; α=.79) and Parental Teamwork (3 items; α=.79) subscales

4 point scale
0 = not true of me at all
1 = true of me alltle, or some of the time
2 = true of me quite a lot, or a good part of the time
3 = true of me quite a lot, or most of the time

I feel stressed or worried

0 1 2 3

I feel happy
0 1 2 3

I feel sad or depressed
0 1 2 3

I feel satsfied with my life
0 1 2 3

I cope with the emotional demands of being a parent
0 1 2 3

v. Child Adjustment and Parent Efficacy Scale (Morawska & Sanders, 2010) to assess child behaviour and adjustment

* 30 items

* Behavioural Problems Subscale (26 items;a=.91), Emotional Problems Subscale (4 items;a=.81) and Parental Efficacy Scale (a=.96)

| How true is this of your child? | Confidence | Confidence

vi. Alabama Parenting Questionnaire - shor Briskman, & Dadds, 2011) to assess par				or		
• 15 items						
5 point scale						
1-Never						
2-Almost Never						
3- Sometimes						
4-Often						
5-Always						
You let your child know when he/she is doing a good job with something.	1	2	3	4	5	
You praise your child if he/she behaves well.	1	2	3	4	5	
You compliment your child when he/ she does something well.	1	2	3	4	5	
You threaten to punish your child and then do not actually punish him/he	r. 1	2	3	4	5	
You let your child out of a punishment early (like lift restrictions earlier than you originally said).	1	2	3	4	5	

u h 24 Ext	iabetes Behaviour Chec nderstand behaviours th ave to manage items ent and Confidence scales oint scale (Not at all to Ve	hat par	ents						
		To what	To what extent has this behaviour been a problem for you with your child?						
									1 (Certain I can't do it) 10 (Certain I can do it).
		Not at all	A little		Somewhat	,	Much	Wery	
Con	nplains about checking blood sugar	1	2	3	4	5	6	7	
	nplains about having insulin injection/ lin bolus	1	2	3	4	5	6	7	
Doe	s not correctly follow steps for checking d sugar level	g 1	2	3	4	5	6	7	
	nplains about entering blood sugar Is into diary or insulin pump	1	2	3	4	5	6	7	
	uses to go to the doctor/clinic	- 1	2	3	4	5	6	7	

