Additional description from the methods:

Clinic specified diabetes care recommendations for insulin, blood glucose monitoring and diet: These were the basis of the adherence tool below as used in this study:

Adherence Tool for insulin, blood glucose monitoring and diet

No.	Question	Response	
	Insulin recommendations: Do you / your child;		
QE01	Take the amount of insulin that the health care	□₁ Never	
	provider prescribed (including adjustments based on	□₂Sometims	
	blood glucose level)?	☐ ₃ Most of the times	
		□₄Always	
QE02	Take insulin at the right times? / taking your insulin	□₁ Never	
	every time you eat?	□ ₂ Sometims	
		☐ ₃ Most of the times	
		∐₄Always	
QC03	Adjust amount of insulin or food based on how much	□₁ Never	
	and how strenuously the child has exercised?	□ ₂ Sometims	
		☐ ₃ Most of the times	
		□ ₄ Always	
QE04	Adjust the amount of insulin based on his/her blood	□₁ Never	
	glucose levels?	□ ₂ Sometims	
		☐ ₃ Most of the times	
		□₄Always	
QE05	Adjust the amount of insulin appropriately when the	□ ₁ Never	
	child is ill?	□₂Sometims	
		☐ ₃ Most of the times	
		□₄Always	
	Blood Glucose Monitoring recommendations		
QE06	Measure blood glucose before every meal?	□₁ Never	
		□ ₂ Sometims	
		☐ ₃ Most of the times	
		□ ₄ Always	
QE07	Detect and respond to early signs of low blood	□₁ Never	
	glucose?	□₂Sometims	
		☐ ₃ Most of the times	
		□₄Always	
QE08	Detect and respond to early signs of high blood	□₁ Never	
	glucose?	□ ₂ Sometims	
		☐ ₃ Most of the times	
		□₄Always	

QE09	Attend check-ups at the diabetes clinic every 3	□ ₁ Never
	months?	□₂Sometims
		☐₃Most of the times
		□ ₄ Always
QE10	Keep a "diary" of the amount of insulin they take, and	□₁ Never
	record blood glucose measurements as required by	□ ₂ Sometims
	your health care personnel?	☐ ₃ Most of the times
		□ ₄ Always
	Dietary recommendation	S
QE11	In the last 24 hours, did you / your child's meals;	□ ₁ Yes □ ₂ No
	Contain all food groups? (starch/grains, animal or	
	plant protein, vegetables and fruits)	
QE12	What percentage of the plate was starchy foods	□ ₁ 1/2 □ ₂ 1/3 □ ₃ 1/4 □ ₄ 1
	(Carbohydrate)? Refer to picture card	
QE13	What was the chief mode of preparation of the meals	□ ₁ Fried
	consumed in the past 3 days?(tick all appropriate)	□₂ Steamed
		□ ₃ Boiled
QE14	Do you / your child always eat at pre-established	□1 Yes □2 No
	times?	
QE15	Did you / your child take any sugar, sugar coated snack, or sweetened fruit juices or beverages in the last 24 hours?	□1 Yes □2 No

Measurement of Diabetes Knowledge:

The Michigan Diabetes Research and Training Centre's brief diabetes knowledge test was used. Of the 23 questions in this tool, we adapted 15 questions only as the rest were not applicable in our setting.

Diabetes Knowledge of Caretaker / Adolescent: Questions adapted from the Michigan Diabetes Research and Training Centre's brief diabetes knowledge test. [The project which resulted into the Michigan Diabetes Research and Training Centre's brief diabetes knowledge test was supported by Grant Number P30DK092926 (MCDTR) from the National Institute of Diabetes and Digestive and Kidney Diseases]

No.	Question	Response
QB01	Glycated hemoglobin (HbA1c) is a test that measures average blood glucose level in the past weeks	☐₁ True ☐₂ False ☐₃ Don't know
QB02	A piece of chicken has more carbohydrate in it than a piece of potatoes	□₁ True □₂ False □₃ Don't know
QB03	Urine testing and blood testing are both equally as good for testing the level of blood glucose	☐₁ True ☐₂ False ☐₃ Don't know
QB04	Unsweetened fruit juice raises blood glucose levels	☐₁ True ☐₂ False ☐₃ Don't know

QB05	Exercising regularly can help reduce high blood pressure	☐₁ True ☐₂ False ☐₃ Don't know
QB06	For a person in good control, exercising has no effect on blood sugar levels	□₁ True □₂ False □₃ Don't know
QB07	Infection is likely to cause an increase in blood sugar levels	☐ ₁ True ☐ ₂ False ☐ ₃ Don't know
QB08	Wearing shoes a size bigger than usual helps prevent foot ulcers	□₁ True □₂ False □₃ Don't know
QB09	Eating foods lower in fat decreases your risk for heart disease	□₁ True □₂ False □₃ Don't know
QB10	Numbness and tingling may be symptoms of nerve disease	□₁ True □₂ False □₃ Don't know
QB11	Lung problems are usually associated with having diabetes	□₁ True □₂ False □₃ Don't know
QB12	When you are sick with the flu you should test for glucose more often	□₁ True □₂ False □₃ Don't know
QB13	High blood glucose levels may be caused by too much insulin	□₁ True □₂ False □₃ Don't know
QB14	If you take your morning insulin but skip breakfast your blood glucose level will usually decrease	□₁ True □₂ False □₃ Don't know
QB15	Having regular check-ups with your doctor can help spot the early signs of diabetes complications	☐₁ True ☐₂ False ☐₃ Don't know

Categorisations and scoring:

Category of diabetes knowledge	Cut off	Score for correctly answered	
		questions out of 15	
Good	≥80%	≥ 12	
Medium	60-79%	9-11	
Poor	<60%	<9	

Note: Each correctly answered question, a participant scored one point.

Caretaker's involvement in diabetes management related tasks:

i) Caretaker's involvement in insulin injection supervision:

We measured insulin injection basing on the number of injections supervised or administered by the caregiver out of the total required number in the past 3 days. In the previous three days, some patients were expected to have a maximum of six injections while others nine depending on whether they inject twice or thrice a day. Caretaker involvement in insulin injection supervision was then graded on a scale using a set cut off as very active, slightly active or not active.

Categorisation of caretaker's involvement in insulin injection supervision:

	For participants who inject 3 times	For participants who inject 2 times per
	per day (total number of injection in	day (total number of injection in 3
	3 days=9)	days=6)
Category	Cut off for injections supervised	Cut off for injections supervised
Very active	≥7 injections	≥5 injections
Slightly active	5-6 injections	3-4 injections
Not active	<5 injections	<3 injections

ii) caretaker's involvement in diet monitoring:

Caretaker's involvement in diet monitoring was determined by assessing involvement of the caretaker in planning the child's / adolescent's meals. Four questions requiring yes/no responses were used. Caretakers who answered yes to all the four diet monitoring activities stipulated in the questions below were considered as being active while the rest were termed as not active.

	Involvement in Diet Monitoring		
QN.1	My caretaker () prepares for me / I prepare for my child a balanced diet for all meals (Carbohydrates, protein, fruits, vegetables)	□₁ Yes	□2 No
QN.2	My caretaker () packs for me / I pack for my child a healthy snack when he/she is leaving home	□₁ Yes	□2 No
QN.3	My caretaker () encourages me / I encourage my child to drink a lot of water	□₁ Yes	□ ₂ No
QN.4	My caretaker () encourages me / I encourage my child to avoid sweets and carbonated sugary drinks	□₁ Yes	□2 No

Attitude towards diabetes:

Of the total 10 statements from both factor 5 and 6 of the Diabetes Attitude Scale which required responses of a 5-point likert scale as strongly agree, agree, neutral, disagree and strongly disagree, participants were scored in such a way that a response corresponding to a good attitude resulted into a score of 5 while that corresponding to a poor attitude resulted into a lower score in accordance to the scale (reverse scores were used in some cases). Therefore, a participant could score from 0 to 5 according to their response on a given statement up to a maximum score of 50 for all statements. Participants were regarded as having good, moderate or poor attitude towards diabetes if they scored >80%, 60-79% and <60% respectively of the overall score of 50.

Category of Attitude towards	Cut off	Score obtained out of 50 expected score from the
diabetes		10 statements
Good	≥80%	≥40
Medium	60-79%	30-40
Poor	<60%	<9