

Coping With Diabetes Mellitus in Adolescence

Leaders:

Mosaed Aldekhayel

Samiha Aljetaily

Members:

Nasser Alsaleh

Mohammed Aldaheri

Basma Alfaris

Shatha Altahan

DM in Adolescence

- Juvenile onset IDDM (insulin dependent diabetes mellitus) is an uncommon pediatric illness in young children.
- 1 in 500 school-age children and adolescents.
- The physical, emotional, and social demands of intensive diabetes self-management are challenging for adolescents given developmental changes and stresses.
- During adolescence, it is common for teenagers to have difficulty adhering to the relatively strict dietary protocols and restriction in their activities
- Adolescents with diabetes are at risk for poor disease control leading to hospitalizations and long-term complications, such as eye, kidney, and nerve damage.
- Coping means to understand the individual's independency; and if coping does not go well, especially in adolescence, <u>depression</u> might occur.
- Age does not necessarily mean that the patient will cope easily, it depends on her/his personality.

Poor diabetic control was correlated with:

The presence of psychiatric disorders	
Difficulties in reading	
Adverse psychosocial risk factors	

Effects of low glycemic control:

- Nephropathy
- Most common effects in adolescents
- Retinopathy
- neuropathy
- Diabetic foot (A diabetic foot is a foot that exhibits any pathology that results directly from diabetes mellitus or any chronic complication of diabetes mellitus.)
- Disability
- Strokes
- Mortality
- ❖ Cardiac/vascular

Oxygen and glucose are especially needed for learning (i.e., mental functioning) so; diabetic (adolescence) patients are prone to face issues related to learning.



Shock and denial: No treatment & diet control (could take up to 6 months. more than that is abnormal)

Anger

Some patients might skip stages or have one before the other.

Searching for a cause & Negotiation

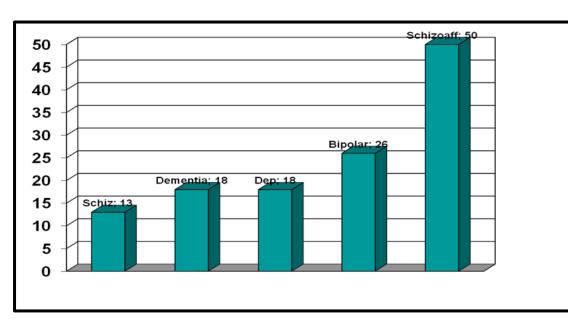
Depression

Acceptance

The goal is to help the patient reach this stage and allow him/her the time they need in each stage.

Not in Females' slides.

Prevalence of Diabetes among patients with major psychiatric disorders:



Signs of Depression:

Physical

- Insomnia.
- Weight loss.
- Poor or increased appetite.
- Poor concentration.

Psychological

- Depressed mood.
- Isolation.
- Death wishes.

Behavioral

- Refusing follow up and treatment.
- Refusing diet control = No healthy life style.
- Poor social communication.
- Restlessness.



Loss of productivity

What are the benefits of treating a depressed diabetic patient?

- Better compliance and acceptance.
- Better life quality.
- Better relationships with others.
- Deleting Negative thoughts.
- Preventing future complication of DM.
- Better productivity.

Management:

1. Teenagers must begin to:

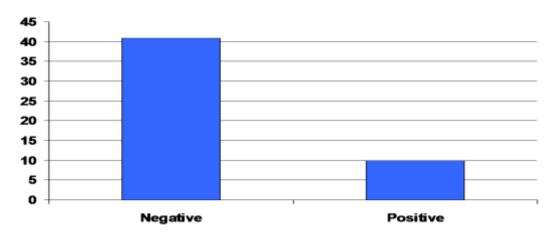
- a. Assume greater responsibilities for the treatment of the illness.
- b. Appreciate that there is a direct relationship between careful compliance and disease squeal.
- 2. Assess the patient's physical and psychological status.

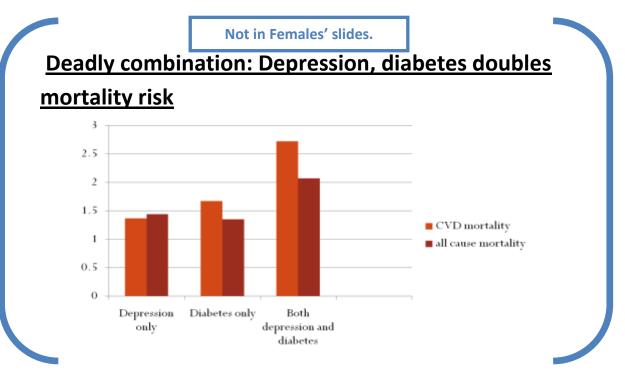
3. Start the treatment.

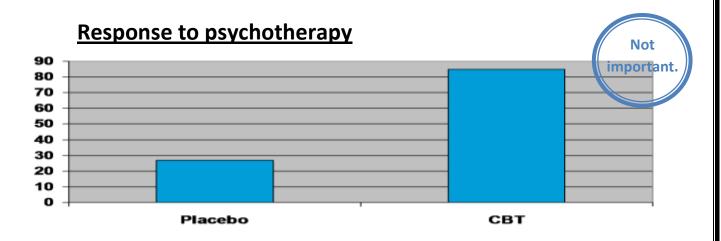
- a. Biological treatment: e.g. Antidepressants.
- b. Psychological Treatment: CBT*
- c. Family (Social) Therapy: Creating a supportive environment for the patient by talking to the family and friends.

*CBT: Cognitive behavioral therapy is a common type of mental health counseling (psychotherapy). With cognitive behavioral therapy, the patient works with a mental health counselor (psychotherapist or therapist) in a structured way, attending a limited number of sessions. Cognitive behavioral therapy helps the patient to become aware of inaccurate or negative thinking, so he/she can view challenging situations more clearly and respond to them in a more effective way

Impact of family problems on the prevalence of depression among adolescents with type I DM







Placebo: is a simulated treatment for a disease intended to deceive the recipient.

The males' doctor mentioned a real-life case touching on the importance of this subject:

A 15-year old female was admitted to the Pediatrics Clinic after having been admitted 22 times to the emergency due to episodes of life-threatening ketoacidosis because she refused to take medication.

She was not depressed that much, yet she was not happy about being a diabetic. She was finally admitted to the Psychiatry wards and following investigations, the psychiatrist found out that she was embarrassed by having to take a bag full of medications while the other girls are having normal, "girly" ones.

Sadly, she died as a result of an episode one day.

Summary:

- <u>Diabetes type (I)</u> is <u>uncommon</u> in children.
- Adolescents go through developmental changes (hormonal changes) and stresses such as: social pressure. They also struggle to adhere to dietary protocols and to restrict their activities.
- For this reason, <u>they're considered at high risk of poor control of their disease</u> which might lead them to get <u>hospitalized</u> or to develop <u>complications</u> such as: nephropathies, retinopathies.
- Diabetes also affects their mental functioning and as a result, their learning skills will be affected too.
- <u>Poor disease control is correlated with presence of psychiatric disorders</u> (<u>especially depression</u>) and problems with emotions and behavior.
- Diabetic teenagers must try to cope with the disease to have a better quality of life and prevent the complications mentioned before. In the process of <u>coping</u>, they will go through different <u>stages</u>:
 - Shock & denial, Anger, Negotiation & searching causes, Depression, and finally Acceptance.
- <u>Depression</u> has <u>signs</u> which are:
 - Physical, Psychological, and Behavioral.
- The management of depressed diabetic adolescents has 3 components:
 - <u>Biological</u> (physical): Antidepressants (SSRIs mostly)
 - <u>Psychological</u>: CBT (cognitive and behavioral therapy)
 - <u>Social</u>: Family therapy
- <u>Due to the patient's suicidal thoughts</u>, <u>SSRIs</u> are preferred over TCAs because an overdose of a SSRI is curable while an overdose of a TCA is deadly.

Questions:

1- What might especially occur when coping with DM does not go well?

- A. Schizophrenia
- B. Bipolar Disorder
- C. Depression
- D. Dementia

2- What is the most common effect of poor glycemic control?

- A. Neuropathy
- B. Retinopathy
- C. Diabetic foot
- D. Strokes

3- What is the best choice of drugs for DM depressed patient?

- A. SSRIs (selective serotonin reuptake inhibitors)
- B. TCAs (Tricyclic antidepressants)
- C. Both A & B
- D. None of the above

Answers:

1-C , 2-B , 3-A

Best of Luck