

Diabetes distress: practical considerations

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Overview

The clinical challenge

How to identify

What to do

- Greater understanding of clinical interface between diabetes distress (DD), depression & diabetes outcomes
- Increased confidence in clinical competencies for managing depression/DD:
 - 'have the conversation'
 - address psychological problems within skillset & remit
 - make referrals to specialist care providers, as needed



We know...





Self-mgx (behaviour) Diabetes Distress Mental Health (Depression)

Psychology provision patchy at best

<25% PwD have access to appropriate emotional and psychological support

Need is high

~40% PwD experience emotional or psychological problems

Poorer health outcomes. reduced QoL & c. 50% increase in healthcare costs

+ £1.8 billion/year

Evidence base

NICE: PwD assessed for psychological problems Paediatric BPT & NHS-E **Diabetes Transition Service** Specification - psychological care integral to MDT

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Source: Diabetes UK, Future of Diabetes Report Findings 2017

Physical/Psychological Interface



Self-management

Behaviours (inc. adherence), coping, skills in problem-solving & risk reduction; self-efficacy; resilience; perceived control; empowerment etc.



Diabetes Distress

Burnout; Fear of hypoglycaemia; psychological resistance to insulin; depressive symptoms; anxiety etc.



Mental Health (Depression)

Pre-existing conditions; incd.
prevalence dementia for
PwD+depression; posv.
correlation between alcohol
intake & progression to T2DM;
assn. of antipsychotics w/weight
gain & T2DM, eating disorders
associated with insulin
restriction etc.

Diabetes & psychological disorders share a bidirectional association, influencing each other in multiple ways



Depression

There is a **bi-directional association** between depression & DM People w/depression more likely to develop T2DM & PwD 2-3x more likely than general population to have depression

Mild Depression Dysthymia Major Depressive Disorder

- Persistent low mood
- Other symptoms present but full diagnostic criteria for major depression not met
- Persistent intense low mood
- Syndrome of symptoms
- · Negative impact on functioning

Source: Mezuk B, Eaton WW, et al. Depression and type 2 diabetes over the lifespan: a metaanalysis. Diabetes Care. 2008;31(12):2383-90. Roy T, Lloyd CE. Epidemiology of depression and diabetes: a systematic review. Journal of Affective Disorders. 2012;142:S8-21.



Association between depression/depressive symptoms & adverse medical & psychological outcomes

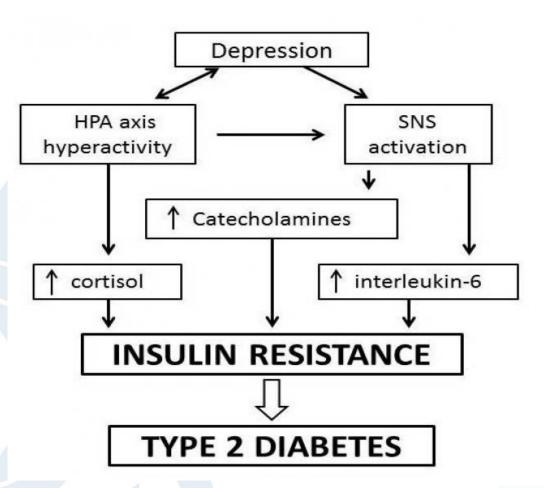
Sub-optimal self-management (e.g. reduced physical activity) Elevated HbA1c, hypoglycaemia & hyperglycaemia Increased prevalence & earlier onset of complications and disability Increased risk of diabetes distress & clinical anxiety Impaired QoL & social role/functioning Increased burden/costs to the individual & healthcare system Greater risk of premature mortality



Pathophysiological mechanisms underly

mechanisms underlying depression &

diabetes

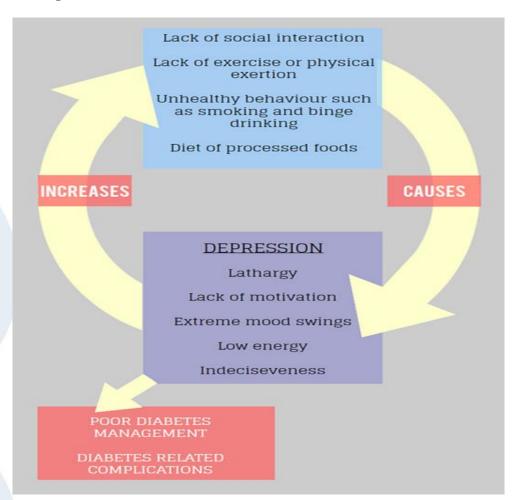




Vicious cycle of depression & diabetes

Factors affecting emotional and psychological wellbeing of a person with diabetes:

- Extent of acceptance of and adjustment to diagnosis
- Coping with constant demands of self-mgx
- Integrating diabetes with other role(s) e.g. parent
- Trait and state resilience, coping style and strategies
- Misconceptions, fears & anxieties
- Progressive disease; complications





But there are inconsistencies in the depression-diabetes relationship....

In the reported prevalence of depression

Meta-analyses show strong depression – diabetes correlation BUT depression is elevated only among diagnosed patients & not among those with undiagnosed diabetes

In the association between depression and self-management

The effect of depressive symptoms on poor self-mgx. are observed even if cases of depressive disorder excluded from analysis

In the association between depression and glycaemic control Interventions that successfully reduce depression in PwD show no consistent corresponding improvement in glycaemic control



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Source: Diabet Med. 2014 Jul;31(7):764-72. doi: 10.1111/dme.12428.





Depression (Major Depressive Disorder)

(Diagnostic & Statistical Manual Mental Disorders, 5, APA 2013)





Two major problems with 'depression' in diabetes

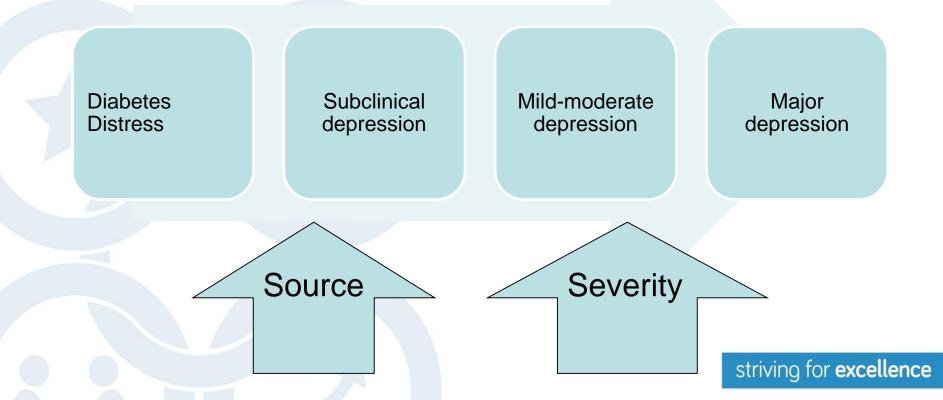
Depressive symptoms overlap with symptoms of diabetes (eg: fatigue, sleep disturbance, changes in weight etc.)

Diagnostic criteria are symptombased and lack context — what is the cause? How to treat? Is this an expected 'normal' reaction to a significant life stressor (eg: diagnosis; developing a complication) vs. what is 'pathological'



Consider emotional distress as a core, continuous & scalable dimension

Divorcing symptoms of depressive disorder from the context that explains them leads to mistaking DD for a psychiatric condition that can lead to inappropriate treatment



Source: Diabet Med. 2014 Jul;31(7):764-72. doi: 10.1111/dme.12428.



Diabetes Distress (DD)

(Does **not** assume psychopathology & is best managed within the context of diabetes care)

The emotional distress resulting from living with DM & the burden of relentless daily self-mgx. (can lead to Diabetes Burnout* &/or depression)

Affects – 1:4 people w/T1DM; 1:5 people w/insulin-treated T2DM; 1:6 people w/noninsulin Rx T2DM Greater DD assd. w/suboptimal self-mgx. (eg: less active, poorer diet, medication non-adherence, less frequent self-monitoring blood glucose), elevated HbA1c, more frequent severe hypoglycaemia, impaired QoL

The Problem Areas In
Diabetes (PAID) scale - used
to identify DD & to guide
conversations about it

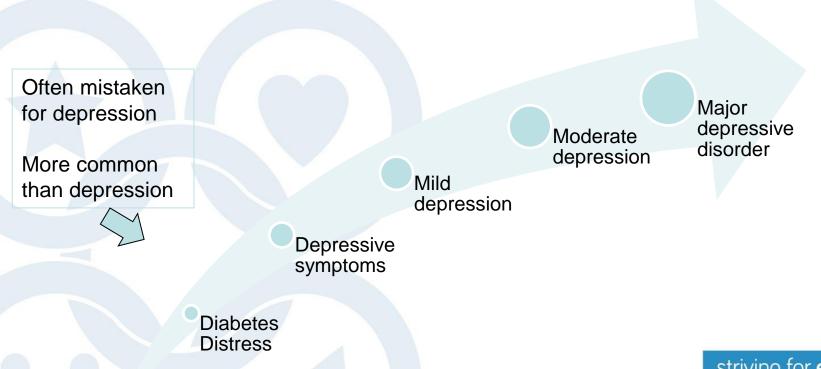
Although greater DD tends to be associated with higher HbA1c, optimal HbA1c is not necessarily an indicator of low DD

^{*} A state of physical or emotional exhaustion caused by the continuous distress of diabetes & efforts required to self-manage it



Take-home message

Emotional distress is best considered a *continuous*, scalable psychological characteristic rather than a discrete co-morbid clinical condition





Explanatory model that acknowledges interconnectedness of stressors in ways that enhance clinical decision making regarding intervention

	Little or none	Mild	Moderate or high	Severe: major depressive disorder, anxiety disorder
Diabetes distress				
Life stressors				
Other contributors	***************************************			

Figure 1.

Two dimensions of emotional distress in diabetes: content and severity.

Questionnaire: Problem Areas In Diabetes (PAID) scale

Instructions: Which of the following diabetes issues are **currently** a problem for you? Tick the box that gives the best answer for you. Please provide an answer for each question.

		Not a problem	Minor problem	Moderate problem	Somewhat serious problem	Serious problem
1	Not having clear and concrete goals for your diabetes care?	0	1	2	3	4
2	Feeling discouraged with your diabetes treatment plan?	0	1	2	3	4
3	Feeling scared when you think about living with diabetes?	0	1	2	3	4
4	Uncomfortable social situations related to your diabetes care (e.g. people telling you what to eat)?	0	1	2	3	4
5	Feelings of deprivation regarding food and meals?	0	1	2	3	4
6	Feeling depressed when you think about living with diabetes	? 🔲 0	1	2	3	4
7	Not knowing if your mood or feelings are related to your diabetes?	0	1	2	3	4
8	Feeling overwhelmed by your diabetes?	0	1	2	3	4
9	Worrying about low blood glucose reactions?	0	1	2	3	4
10	Feeling angry when you think about living with diabetes?	0	1	2	3	4
11	Feeling constantly concerned about food and eating?	0	1	2	3	4
12	Worrying about the future and the possibility of serious complications?	0	1	2	3	4
13	Feelings of guilt or anxiety when you get off track with your diabetes management?	0	1	2	3	4
14	Not 'accepting' your diabetes?	0	1	2	3	4
15	Feeling unsatisfied with your diabetes physician?	0	1	2	3	4
16	Feeling that diabetes is taking up too much of your mental and physical energy every day?	0	1	2	3	4
17	Feeling alone with your diabetes?	0	1	2	3	4
18	Feeling that your friends and family are not supportive of your diabetes management efforts?	0	1	2	3	4
19	Coping with complications of diabetes?	0	1	2	3	4
20	Feeling 'burned out' by the constant effort needed to manage diabetes?	0	1	2	3	4

Soslin Diabetes Center, 1999 (www.joslin.org). All rights reserved.

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Source: Welch et al. 1997. Diabetes Care, 20(5).



Which of the following diabetes issues are currently a problem for you?

- 13. Feelings of guilt or anxiety when you get off track with your diabetes management?
- 14. Not 'accepting' your diabetes?
- 15. Feeling unsatisfied with your diabetes physician?
- 16. Feeling that diabetes is taking up too much of your mental and physical energy every day?



Monitoring Tools

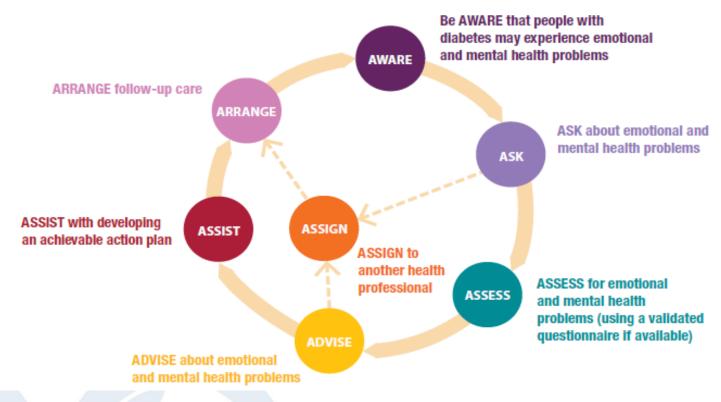
PHQ-9 (PHQ-2)

Over the last 2 weeks, how often have you been bothered by any of the following problems? Use a to indicate your answer	Not at all	Several days	More than half the days	Nearly every day
Little interest or pleasure in doing things				
2. Feeling down, depressed or hopeless				



How HCP's can support a person with diabetes distress/depression

7A's model



Diabetes and emotional health A handbook for health professionals supporting adults with type 1 or type 2 diabetes



Two cases

Elizabeth

62-year-old woman, living with her husband

Type 2 diabetes for 10 years; overweight. Oral medications for diabetes, high blood pressure, and high cholesterol

Health professional: Dr Andrew Costanzo (GP)

Luke

24-year-old man living with his older brother

Type 1 diabetes (diagnosed 23 years ago)

Health professionals: Dr Glenn Jin (endocrinologist) and Thomas Mitchell (diabetes nurse)

- Low energy
- Poor concentration & attention
- Disrupted sleep
- Elizabeth weight gain
- Luke weight loss

The Mid Yorkshire Hospitals NHS Trust

Elizabeth

62-year-old woman, living with her husband

Type 2 diabetes for 10 years; overweight. Oral medications for diabetes, high blood pressure, and high cholesterol

Health professional: Dr Andrew Costanzo (GP)

Dr. Costanzo is aware that guidelines recommend assessment for emotional distress in people with T2DM.

He invites
Elizabeth to complete
the PAID while she is
waiting for her
consultation.

BE AWARE PAID given

ARRANGE

Follow-up to repeat PAID

ASK & ASSESS

High PAID score; info gleaned – anger & frustration

ASSIGN

Referral to dietician

ADVISE & ASSIST

Reassurance Normalisation

Diabetes and emotional health A handbook for health professionals supporting adults with type 1 or type 2 diabetes



Luke

The Mid Yorkshire Hospitals

NHS Trust

24-year-old man living with his older brother

Type 1 diabetes (diagnosed 23 years ago)

Health professionals: Dr Glenn Jin (endocrinologist) and Thomas Mitchell (diabetes nurse)

Dr. Jin is aware that PwD are at higher risk of emotional distress; he decides to add a mental health questionnaire to the annual review process at his clinic. The questionnaire includes the PAID scale (to assess diabetes distress) and PHQ-2.

BE AWARE

PAID & PHQ-2 given

ARRANGE

Follow-up to review

ASK & ASSESS

Low PAID score but positive PHQ-2; multiple life events & suicidality

ASSIGN

Referral to psychology/ mental health

ADVISE & ASSIST

Depression discussed; info given; risk managed

Diabetes and emotional health A handbook for health professionals supporting adults with type 1 or type 2 diabetes



Summary

Emotional distress has high prevalence & incidence

Negatively impacts ALL significant outcomes

CLINICAL CHALLENGE

Frontline
HCP's
confident &
skilled at
managing the
psychological/
physical
interface

Improved understanding of the differences between DD & depression but also the interconnectedness

7A's Model (screening tools) Most appropriate intervention – ASSIST & ADVISE & ASSIGN



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THANK YOU