

# Diabetes and eating disorders

## Workshop D

**Dr Marietta Stadler**

NIHR Clinician Scientist  
Clinical Senior Lecturer

[Marietta.stadler@kcl.ac.uk](mailto:Marietta.stadler@kcl.ac.uk)

**Dr Amy Harrison**

Senior Clinical Lecturer KCL  
Associate Professor UCL

[Amy.harrison@kcl.ac.uk](mailto:Amy.harrison@kcl.ac.uk)

**ABCD Diabetes Clinical Update**

**31.1.-2.2.2024**

**Loughborough**



# Diabetes and Eating disorders

- Basics
  - Eating disorders
  - T1 diabetes and eating disorder
  - T2 diabetes and eating disorder
- Clinical experience and evidence, practical tips
- Cases
  - (content warning)

# Diabetes and Eating disorders

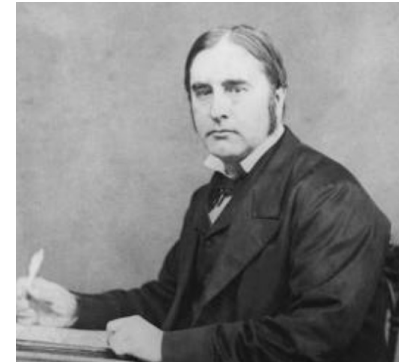
- Basics
  - Eating disorders
  - T1 diabetes and eating disorder
  - T2 diabetes and eating disorder
- Clinical experience and evidence, practical tips
- Cases  
(content warning)

# What are Eating Disorders?

- Serious mental health disorders with physical health complications
- Highest mortality rate of all psychiatric disorders (Striegel-Moore & Bulik, 2007)
- Vary in severity: disordered eating , to mild, to severe and enduring (>7 years)
- Anorexia nervosa
- Bulimia nervosa
- OSFED (other specified feeding/ED)
- Binge eating disorder
- Comorbidities common

# Anorexia Nervosa

- First defined by the Queen's Doctor, Sir William Gull (*1868 Lancet ii 171-176*)
- Refusal to maintain body weight at or above a minimally normal weight for age and height
- Intense fear of gaining weight or becoming fat, even though underweight.
- Disturbance in the way in which body weight or shape is experienced
- Amenorrhoea no longer required
- **Restricting Type**
- **Binge-Eating/Purging Type**

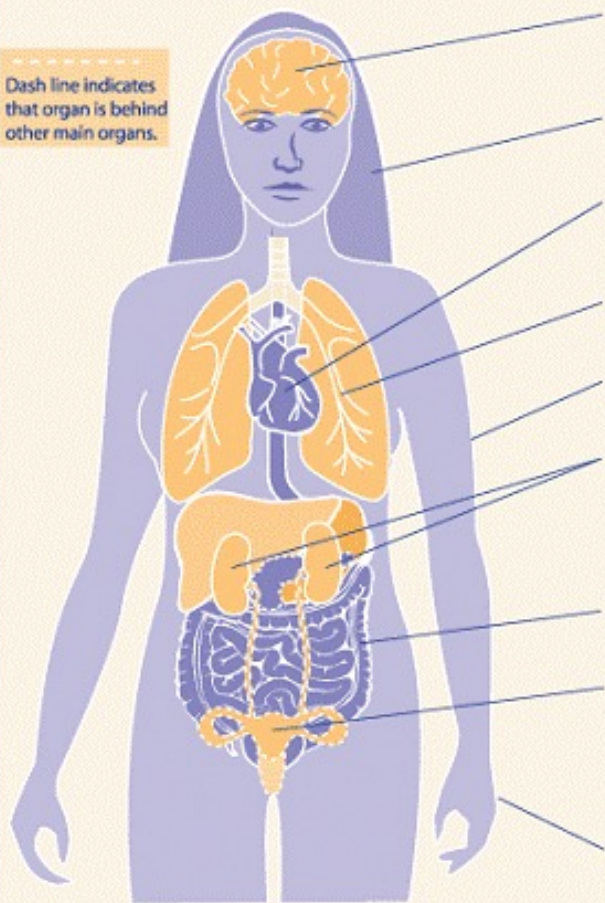


# Physical Signs

- Dizziness when standing up
- Weakened muscles
- Tiredness
- Fidgeting
- Cold blue hands, nose and feet.
- Lanugo hair

## Anorexia affects your whole body

Dash line indicates that organ is behind other main organs.



### **Brain and Nerves**

can't think right, fear of gaining weight, sad, moody, irritable, bad memory, fainting, changes in brain chemistry

### **Hair**

hair thins and gets brittle

### **Heart**

low blood pressure, slow heart rate, fluttering of the heart (palpitations), heart failure

### **Blood**

anemia and other blood problems

### **Muscles and Joints**

weak muscles, swollen joints, fractures, osteoporosis

### **Kidneys**

kidney stones, kidney failure

### **Body Fluids**

low potassium, magnesium, and sodium

### **Intestines**

constipation, bloating

### **Hormones**

periods stop, bone loss, problems growing, trouble getting pregnant. If pregnant, higher risk for miscarriage, having a C-section, baby with low birthweight, and post partum depression.

### **Skin**

bruise easily, dry skin, growth of fine hair all over body, get cold easily, yellow skin, nails get brittle

# Bulimia Nervosa

- First described by Prof G Russell in 1979
- DSM 5 (2013): Recurrent episodes of binge eating: large amount plus loss of control
- Recurrent inappropriate compensatory behaviours in order to prevent weight gain
- Both once a week for 3 months+
- Self-evaluation unduly influenced by body shape and weight.
- **Purging type**
- **Nonpurging type**





# Physical Signs

- Parotid or submandibular gland enlargement
- Eroded teeth
- "Russell's sign" - callus on back of hand
- Cold blue hands, nose and feet
- Lanugo hair

# Diabetes and Eating disorders

- Basics
  - Eating disorders
  - T1 diabetes and eating disorder
  - T2 diabetes and eating disorder
- Clinical experience and evidence, practical tips
- Cases  
(content warning)

# Type 1 diabetes disordered eating (T1DE) – more common than you may think...

ED is twice as common in people with T1DM than in those without <sup>4</sup>

30% of women <sup>1,2</sup> and 7% of men <sup>3</sup> with T1DM restrict insulin to control weight

'I decided to experiment with my insulin; taking less and less, until I was taking none at all'

Blogger with Diabulimia

Ketoacidosis & severe hypoglycaemia rates increased <sup>5</sup>

Accelerated late complications <sup>1</sup>

3-fold higher mortality than T1DM without ED <sup>1</sup>



<sup>1</sup> Goebel-Fabri et al, Diabetes Care 2008; <sup>2</sup> Polonsky WH et al, Diabetes Care 1994; <sup>3</sup> Bachle C et al, Plos One 2015;

<sup>4</sup> Jones JM et al, BMJ 2000; <sup>5</sup> Scheuing N et al, Diabetes Care 2014

# Definition of T1DE and risk assessment- MEED (medical emergencies in eating disorders) RCPsych guidance

## First national T1DE guidance



### Box 1: Proposed diagnostic criteria for T1DE

People with type 1 diabetes who present with all three criteria:

1. Intense fear of gaining weight, or body image concerns, or fear of insulin promoting weight gain.
2. Recurrent inappropriate direct or indirect\* restriction of insulin (and/or other compensatory behaviour\*\*) to prevent weight gain.
3. Presenting with a degree of insulin restriction, eating or compensatory behaviours that cause at least one of the following:
  - harm to health
  - clinically significant diabetes distress
  - impairment on daily functioning.

\* Indirect restriction of insulin refers to reduced insulin need/use due to significant carbohydrate restriction.

\*\* Dietary restriction, self-induced vomiting, laxative use, excessive exercise, over-use of thyroid hormones, over-use of diabetes medication believed to avoid weight gain or promote weight loss.

#### Editors

**Simon Chapman**, Consultant Paediatrician, King's College Hospital and South London and the Maudsley NHS Foundation Trusts

**Helen Partridge**, University Hospitals Dorset NHS Foundation Trust

**Claire Plinder**, Eating Disorders Dietitian, Dorset HealthCare University NHS Foundation Trust

**Marietta Stadler**, King's College Hospital NHS Foundation Trust

#### Contributors

**Sarah Allcea**, Children and Young People's Diabetes Specialist Dietitian, University Hospitals Dorset NHS Foundation Trust

**Michelle Bennett**, Clinical Specialist in Eating Disorders, Dorset HealthCare University NHS Foundation Trust

**Dr Sarah Brewster**, Diabetes and Endocrinology Registrar/Clinical Academic Fellow, Southern Health NHS Foundation Trust

**Caroline Cross**, COMPASSION Project Manager, Dorset HealthCare University NHS Foundation Trust

**Dr Carla Figueredo**, Consultant Psychiatrist, Dorset HealthCare University NHS Foundation Trust

**Linda Gerrard-Longworth**, Eating Disorders Therapist, Southern Health NHS Foundation Trust

**Kerri Hampton**, Diabetes Nurse Specialist, Dorset County Hospital NHS Foundation Trust

**Dr Eveleigh Nicholson**, Consultant in Diabetes and Endocrinology, Portsmouth Hospitals University NHS Trust

**Dr Helen Partridge**, Consultant in Diabetes, University Hospitals Dorset NHS Foundation Trust

**Simone Penfold**, Diabetes Specialist Nurse, University Hospitals Dorset NHS Foundation Trust

**Claire Plinder**, Eating Disorders Dietitian, Dorset HealthCare University NHS Foundation Trust

**Dr Lindsey Rouse**, Clinical Psychologist, University Hospitals Dorset NHS Foundation Trust

**Jacqueline Ryder**, Diabetes Specialist Nurse, University Hospitals Dorset NHS Foundation Trust

**Nicola Stacey**, Diabetes Specialist Nurse, University Hospitals Dorset NHS Foundation Trust

**Ariella Thompson**, PhD Student, Bournemouth University

#### Reviewers

**Jacqueline Allan**, Patient Public Involvement representative, DClinPsych Trainee at South London and the Maudsley Hospitals NHS Foundation Trust

**Andrea Brown**, Consultant Psychiatrist, Schewen Clinic, London

**Helen Cope**, Liaison Psychiatrist, Guy's and St Thomas NHS Foundation Trust

**Sophie Harris**, Consultant Diabetologist, King's College Hospital NHS Foundation Trust

**Khalida Ismail**, Professor of Psychiatry, King's College London

**Dulmini Karlyawasam**, Consultant Diabetologist, Guy's and St Thomas NHS Foundation Trust

**Yuk-Fun Liu**, Consultant Diabetologist, Guy's and St Thomas NHS Foundation Trust

**Ruth Marshall**, Child and Adolescent Psychiatrist, Central Manchester CAMHS



Dr Simon Chapman



Dr Helen Partridge & Compassion team



Prof Khalida Ismail & T1DE-London team

## Defining severe T1DE

King's Health Partners definition of  
type 1 diabetes and disordered eating  
(T1DE)

### **T1DE core criteria (all 3):**

- Type 1 diabetes
- pervasive fear of insulin as weight gaining
- **insulin restriction/omission (direct or indirect)**

### **Severity criteria (1 or more):**

- **HbA1c > 10%**
- **BMI < 15 kg/m<sup>2</sup>**
- **severe hypoglycaemia**
- **DKA admission in last 12 months**

# Diabetes acute complication risks: Diabetes ketoacidosis rates in T1DE

## **Pan-London-T1DE:**

0.72 episodes per patient per year (21 admissions in 29 patients diabetic ketoacidosis -DKA) <sup>1</sup>

## **Comparison: DAFNE-data base UK:**

0.07 episodes per year per person in a cohort of people with T1DM prior to attending diabetes structured education <sup>2</sup>

**10- fold higher DKA rates**

## **DPV clinical registry:**

ketoacidosis rates:

No ED: 5.7 +/- 0.1 vs.

Anorexia nervosa: 12.1 +/- 2.1,

Bulimia nervosa: 18.0 +/- 4.1, or

EDNOS 12.9 +/- 1.6 events per 100 person-years <sup>3</sup>

**2 to 3- fold higher DKA rates**

<sup>2</sup> Elliott J et al [Diabet Med.](#) 2014 ; <sup>1</sup> Stadler M et al, manuscript in preparation;

<sup>3</sup> Scheunig N et al, Diabetes Care 2014

Diabetes chronic complications and mortality risks:  
Insulin Restriction and Associated Morbidity and Mortality  
in Women with Type 1 Diabetes  
11- year follow up (234 women)

**30%** reported **insulin restriction** at baseline

insulin restrictors

**younger** (aged 32 vs. 36 years) and had **higher A1C** values (9.6 vs. 8.3%), but **no difference in diabetes duration or BMI**

**2 to 2.5 -times higher** proportion of **late complications**: nephropathy (25 vs. 10%) and foot problems (25 vs. 12%) at follow-up.

**increased relative risk of death** during the 11- year study period by **3.2 times**

# Work in progress: defining subtypes of eating disorders in type 1 diabetes overview

## Type 1 diabetes and eating disorder/ disordered eating= T1DE

DSM-5 diagnosable ED is twice  
as common in people with  
T1DM than in those without <sup>4</sup>

30% of women <sup>1,2</sup>  
and 7% of men <sup>3</sup> with T1DM  
restrict insulin to control weight

### Classical Eating disorders per DSM-5 plus type 1 diabetes

Anorexia nervosa + T1D  
Bulimia nervosa + T1D  
Binge eating disorder + T1D  
**OSFED + T1D**

### Type 1 diabetes- specific disordered eating subtypes

?



<sup>1</sup> Goebel-Fabri et al, *Diabetes Care* 2008; <sup>2</sup> Polonsky WH et al, *Diabetes Care* 1994;

<sup>3</sup> Bachle C et al, *Plos One* 2015

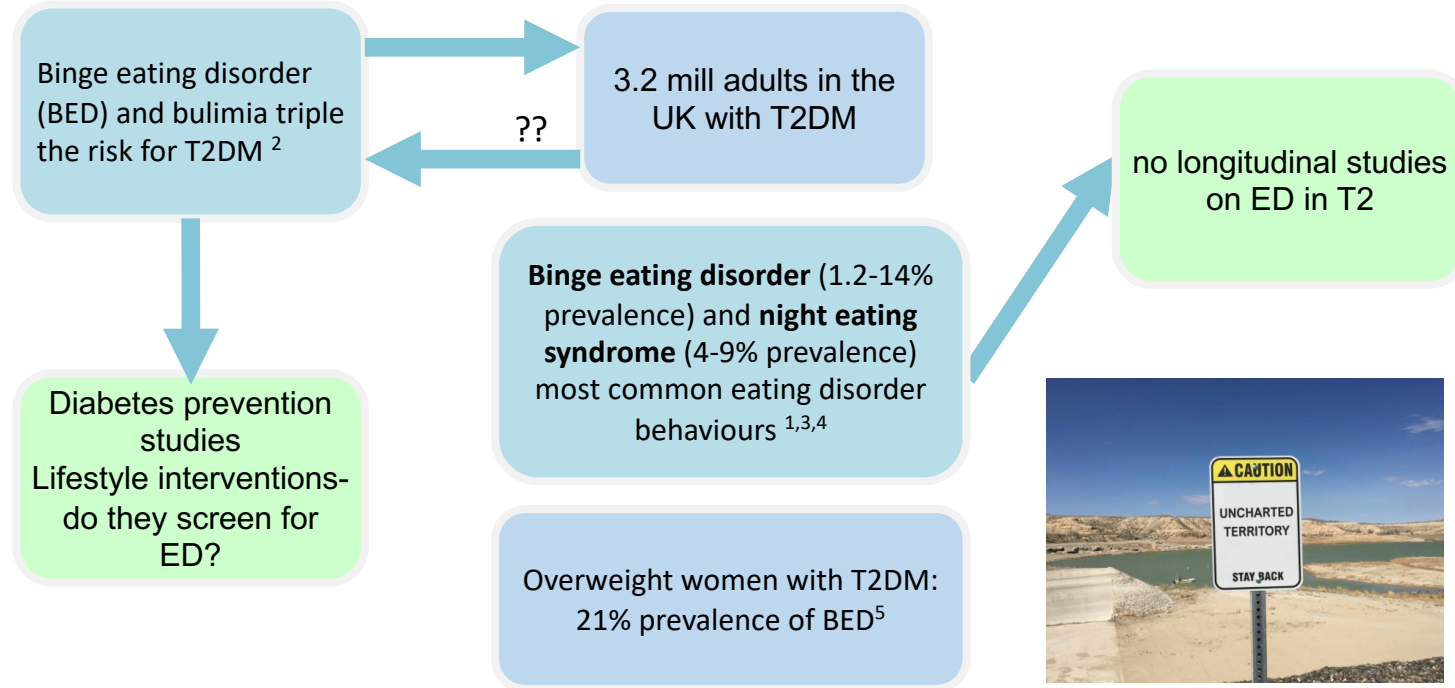
<sup>4</sup>Jones JM et al, *BMJ* 2000

APA (Eds.) (2013) *Diagnostic and statistical manual of mental disorders: DSM-5*. 5th edn. Washington, DC: American Psychiatric Association.



# T2DM and eating disorders

# Type 2 diabetes and eating disorders



1 Herpertz et al, Int J Eat Disord 2000; 2 Nieto-Martinez R et al, Curr Diab Rep 2017;

3 Abbot S et al, J Eat Disord 2018, 4 Nicolau J et al, Acta Diabetol 2015; 5 Kenardy J, Eating Behav 2001

# Type 2 Diabetes and Eating Disorders

- Up to 10–40% of patients with T2D meet diagnostic criteria for an eating disorder; binge eating disorder is the most common (Raevuori et al., 2015)
- Anorexia nervosa is associated with a lower risk of type 2 diabetes (Nieto-Martinez et al., 2017).
- Up to 40% of patients with BED are reported to have a BMI in the clinically obese range of weight classification (Kornstein et al., 2016) which impacts metabolic control (Pivarunas et al., 2015)

# Type 2 Diabetes and Eating Disorders

- The bingeing that people experience in bulimia nervosa and binge eating disorder often involves a high carbohydrate content (Lourenco et al., 2008; Allison & Timmerman, 2007)
- Just one episode of binge eating has been found to reduce insulin sensitivity by 28% (Parry et al, 2017)
- Regular binge eating is correlated with less optimal blood glucose (Kenardy et al., 2001)
- Risk for type 2 diabetes in eating disorders may not always be thought about, and, we need to consider the experience of binge eating in type 2 diabetes

# Type 2 diabetes treatment increasing risk for disordered eating /eating disorders

- Very low calorie diets
- Stigma – lifestyle interventions
- Hypoglycaemia/ binge eating trigger
- Perfectionism
- Ask people about past history of eating disorder

# Diabetes and Eating disorders

- Basics
  - Eating disorders
  - T1 diabetes and eating disorder
  - T2 diabetes and eating disorder
- **Clinical experience and evidence, practical tips**
- Cases
  - (content warning)

# 2023: creating experience and evidence base UK

**STEADY** - Safe management of people with  
Type 1 diabetes and Eating Disorders studY  
Outpatient based intervention (moderately ill)

NIHR Clinician Scientist Fellowship

**London-T1DE** - Pilot project to develop a service  
for people with Type 1 diabetes and eating disorders  
in London, who are severely ill



**ComPASSION- T1DE** Pilot in Wessex



**NIHR** | National Institute  
for Health Research

Prof Khalida Ismail



Dr Helen Partridge



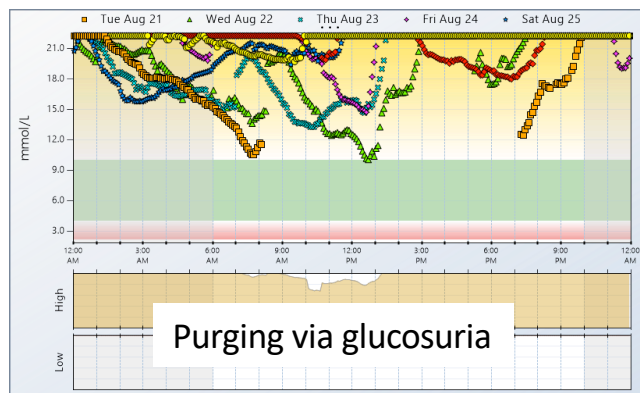
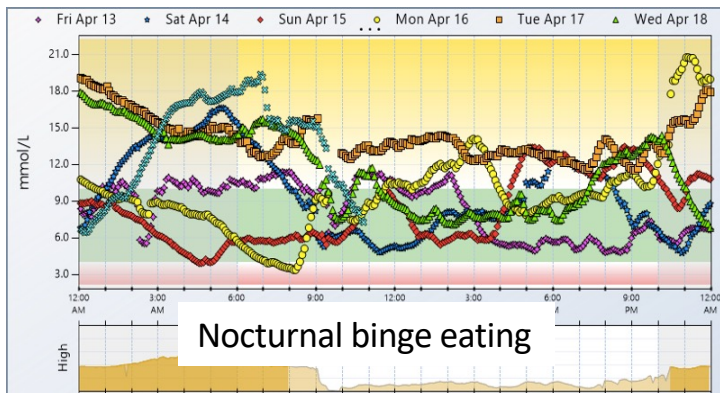
How can you, as a diabetologist find out if your patient struggles with disordered eating/ eating disorder?

- Ask- body image, weight concerns
- Indirect signs in CGMS traces
- Barriers to taking insulin- explore with your patient
- Screening questionnaire
- Consider other mental health comorbidity
- ....



## Visualizing eating disorder on a glucose monitoring trace/ person with type 1 diabetes

- Binge eating at night causing extreme BG rise
- Purging by running BG high (shedding water and glucose via kidneys, katabolic state with high ketones)



**STEADY**

Rama Chandran S, Zaremba N, Harrison A, Choudhary P, Cheah Y, Allan J, Debong F, Reid F, Treasure J, Hopkins D, Ismail K and Stadler M manuscript under review

# DEPS-R

## Diabetes eating problem survey- revised

### Diabetes Eating Problem Survey (Revised) (DEPS-R)©

		Never	Rarely	Sometimes	<u>Often</u>	<u>Usually</u>	Always
1	Losing weight is an important goal to me	0	1	2	3	4	5
2	I skip meals and/or snacks	0	1	2	3	4	5
3	Other people have told me that my eating is out of control	0	1	2	3	4	5
4	When I overeat, I don't take enough insulin to cover the food	0	1	2	3	4	5
5	I eat more when I am alone than when I am with others	0	1	2	3	4	5
6	I feel that it's difficult to lose weight and control my diabetes at the same time	0	1	2	3	4	5
7	I avoid checking my blood sugar when I feel like it is out of range	0	1	2	3	4	5
8	I make myself vomit	0	1	2	3	4	5
9	I try to keep my blood sugar high so that I will lose weight	0	1	2	3	4	5
10	I try to eat to the point of spilling ketones in my urine	0	1	2	3	4	5
11	I feel fat when I take <u>all of</u> my insulin	0	1	2	3	4	5
12	Other people tell me to take better care of my diabetes	0	1	2	3	4	5
13	After I overeat, I skip my next insulin dose	0	1	2	3	4	5
14	I feel that my eating is out of control	0	1	2	3	4	5
15	I alternate between eating very little and eating huge amounts	0	1	2	3	4	5
16	I would rather be thin than to have good control of my diabetes	0	1	2	3	4	5

Markowitz JT, Butler DA, Volkering LK, Antisdel JE, Anderson BJ, Laffel LM. Brief screening tool for disordered eating in diabetes: internal consistency and external validity in a contemporary sample of pediatric patients with type 1 diabetes. Diabetes Care. 2010; 33: 495-500.

# Screening Tools: EDEQ

- Eating Disorder Examination Questionnaire (Fairburn & Beglin, 1994): 28 item scale, last 28 days, 0-6 likert scale, plus behavioural frequency items
- Age 14+
- Short forms available
- Global score, restraint, weight concern, shape concern and eating concern subscales
- Community norms available and clinical cut-off is  $\geq 4$

[https://www.corc.uk.net/media/1273/ede-q\\_questionnaire.pdf](https://www.corc.uk.net/media/1273/ede-q_questionnaire.pdf)

How can you, as a diabetologist, support/ treat your patient who struggles with disordered eating/ eating disorder?



# Clinical risk in the real world during consultation



- Patient arrives at clinic with ketones 3mmols+
- How might they feel when asked to inject insulin to prevent DKA?
- How do you build a relationship when asking them to inject insulin, the thing they feel most threatened by?
- Do they have the physical/mental capacity to decide NOT to inject insulin?
- How helpful is a consultation/ or therapy session when high blood glucose and ketones are likely to impair cognitive function?
- Not taking a drug you need for life- a form of self-harm/ slow suicide- how high is their acute suicidality risk?

# Diabetes and Eating disorders

- Basics
  - Eating disorders
  - T1 diabetes and eating disorder
  - T2 diabetes and eating disorder
- Clinical risk, practical tips
- Cases  
(content warning)

# T1DE – clinical learning

...collaborate-  
you can't do it  
on your own.



People with T1DE need MDT approach with **combined diabetes/physician AND mental health** expertise to keep them safe....

...**think outside the box**, flexibility, small achievable goals; involve other resources in the community.

Diabetes and  
eating  
disorders –  
clinical  
learning

... don't give up  
too early!



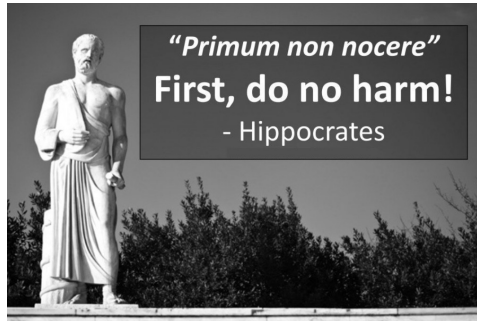
Recovery can take a **long time**  
and **high intensity input**....

**...relapse is part of recovery,**  
as diabetes remains, even if  
the disordered eating is 'in  
recovery.



# T1DE – clinical learning

...keep them safe.  
... don't make them worse.



People with T1DE are at **high risk for acute diabetes complications** as well as chronic diabetes complications

Too rapid **re-insulinisation** can deteriorate diabetic **neuropathy and retinopathy** and be too **challenging psychologically**

**Slow steps!**

# Slow insulin titration in an inpatient with anorexia nervosa, insulin omission and type 1 diabetes

## target: fit for dental surgery; weight gain

September 2021

9 September 2021 - 15 September 2021

7 Days

% Time Sensor is Active

96%

Ranges And Targets For

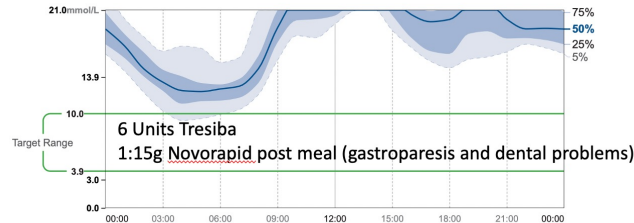
Type 1 or Type 2 Diabetes

Glucose Ranges	Targets % of Readings (Time/Day)
Target Range 3.9-10.0 mmol/L	Greater than 70% (16h 48min)
Below 3.9 mmol/L	Less than 4% (58min)
Below 3.0 mmol/L	Less than 1% (14min)
Above 10.0 mmol/L	Less than 25% (6h)
Above 13.9 mmol/L	Less than 5% (1h 12min)

Each 5% increase in time in range (3.9-10.0 mmol/L) is clinically beneficial.

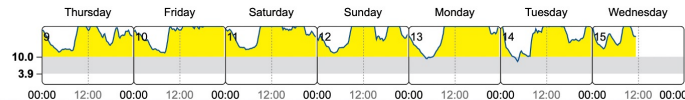
Average Glucose

18.6 mmol/L



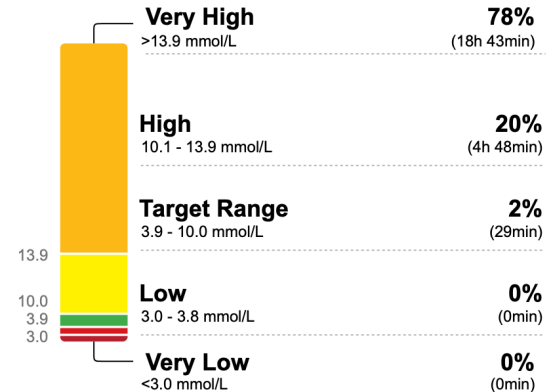
DAILY GLUCOSE PROFILES

Each daily profile represents a midnight to midnight period with the date displayed in the top-left corner.



21 yrs female; BMI 12.3/m2; HbA1c 13.9%

TIME IN RANGES



Degludec 6 Units  
Insulin aspart 1:15g post meal

# Slow insulin titration in an inpatient with anorexia nervosa, insulin omission and type 1 diabetes

## GLUCOSE STATISTICS AND TARGETS

November 2021

7 Days

92%

Ranges And Targets For		Type 1 or Type 2 Diabetes
<b>Glucose Ranges</b>		<b>Targets % of Readings (Time/Day)</b>
Target Range 3.9-10.0 mmol/L		Greater than 70% (16h 48min)
Below 3.9 mmol/L		Less than 4% (58min)
Below 3.0 mmol/L		Less than 1% (14min)
Above 10.0 mmol/L		Less than 25% (6h)
Above 13.9 mmol/L		Less than 5% (1h 12min)
Each 5% increase in time in range (3.9-10.0 mmol/L) is clinically beneficial.		

Average Glucose

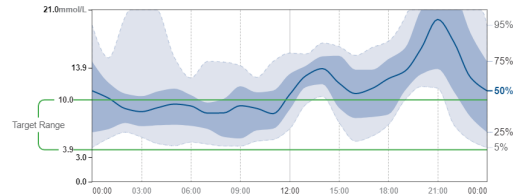
11.4 mmol/L

Glucose Management Indicator (GMI)

8.2% or 66 mmol/mol

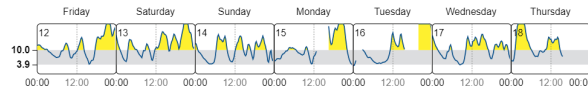
### AMBULATORY GLUCOSE PROFILE (AGP)

AGP is a summary of glucose values from the report period, with median (50%) and other percentiles shown as if occurring in a single day.

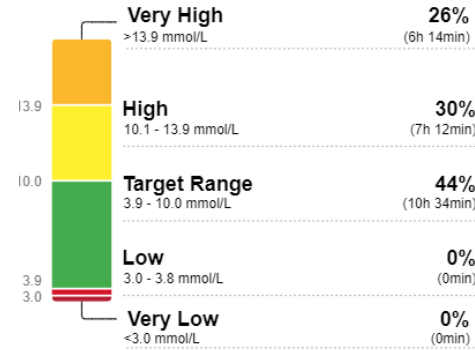


### DAILY GLUCOSE PROFILES

Each daily profile represents a midnight to midnight period with the date displayed in the top-left corner.



## TIME IN RANGES



**Degludec 9 Units**  
**Insulin aspart 1:10g post meal**  
**1: 10g for snacks**

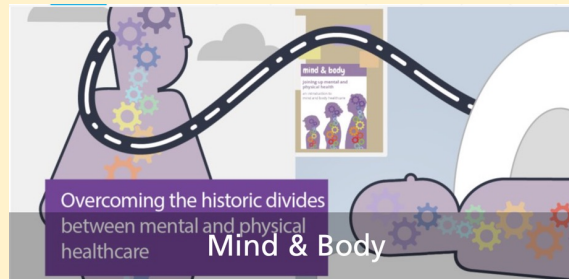
# Conclusions

Multidisciplinary working between diabetology and mental health is the **ONLY** approach to address the comorbid eating disorder/ disordered eating.

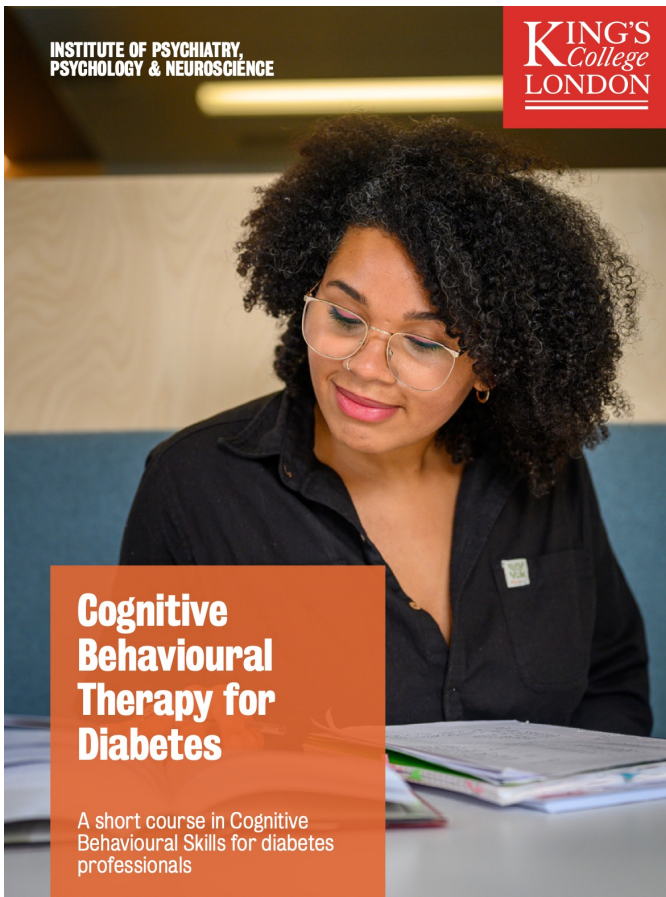
There is a wide spectrum of phenotypes and clinical severity of eating disorders/ disordered eating in type 1 and in type 2 diabetes.

Tailored treatments and pathways are currently being developed.

Be mindful of high psychological and physical comorbidity in this group.



# Diabetes CBT short course



**INSTITUTE OF PSYCHIATRY,  
PSYCHOLOGY & NEUROSCIENCE**

**KING'S  
College  
LONDON**

## Cognitive Behavioural Therapy for Diabetes

A short course in Cognitive Behavioural Skills for diabetes professionals



### Modules

#### Module 1

Introducing CBT and diabetes

CBT basic skills, including building a five areas formulation and supporting diabetes distress

CBT for diabetes specific problems:  
fear of hypoglycaemia

CBT for disordered eating in diabetes:  
fear of insulin as weight gain

#### Entry criteria

- A pass or higher in an undergraduate degree from a science cognate area such as nursing, medicine, psychology or biological sciences
- Successful completion of the pre-requisite sister module, Cognitive Behavioural Therapy Principles for Diabetes, or evidence of an alternative Introductory module on Cognitive Behavioural Therapy (for Skills-Based Learning from Practice)

#### VOICE OF THE ACADEMIC

*'This course will build your skills and confidence in supporting the mental health of people with diabetes.'*

**Professor Khalida Ismail**, Consultant  
Liaison Psychiatrist in Diabetes

### Cognitive Behavioural Therapy for Diabetes module overview

Lead by Dr Amy Harrison and Professor Khalida Ismail, Cognitive Behavioural Therapy for Diabetes Module 1 is a six-week short course delivering practical, intensive, and detailed training to provide knowledge and skills in a diabetes-specific cognitive behavioural therapy (CBT) model and its applications in clinical practice.

This course will be delivered online using the Keats platform, allowing you the flexibility to fit study around personal and professional commitments. Teaching content will be in the form of videos, audio files and written information that you will engage with in your own time, and the skills will be implemented in the weekly online teaching sessions on Tuesdays 15.15 – 17.30 (GMT).

We are planning to deliver future modules with credits towards a Post Graduate Certificate in Cognitive Behavioural Therapy for Diabetes.

For more information and course enquiries please email [deo@kcl.ac.uk](mailto:deo@kcl.ac.uk)

## At a glance

### Fees and course dates

**Fees:**  
Module 1: £1431  
Module 2: TBC

**Delivery:**  
Online

**Dates:**  
Module 1:  
September 2023  
Module 2:  
TBC

**Online teaching:**  
Tuesdays  
15:15 – 17:30 (GMT)

### More online

[deo@kcl.ac.uk](mailto:deo@kcl.ac.uk)

[/Kingsloppn](https://www.facebook.com/Kingsloppn)

[@KingsloPPN](https://www.instagram.com/KingsloPPN)

[@KHDPED](https://www.tiktok.com/@KHDPED)

# All party parliamentary working group T1DE



Knowledge & support

About JDRF

How to help

News & events

## New Parliamentary inquiry into type 1 diabetes and eating disorders launched

Sir George Howarth MP and Rt. Hon Theresa May MP have launched a new inquiry into eating disorders in type 1 diabetes, also known as T1DE, supported by JDRF as the secretariat.



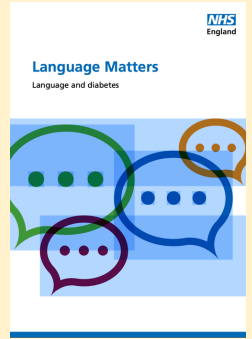
20 June 2022

- Several T1DE team members have given evidence
- Report publication imminent
- 5 new pilot T1DE sites:
  - Coventry and Warwickshire;
  - Leicester; Humber and North Yorkshire;
  - Norfolk and Waveney; Cheshire and Merseyside



# Take home messages

- Avoid unnecessary focus on eating/ body weight in the consultation – not weighing if not needed (unless severely low-weight)!
- Ask about both the physical AND the mental well-being
- Make contact and work with your local eating disorders service (in-and outpatients).



# Thank you for your attention

Questions?

[Marietta.stadler@kcl.ac.uk](mailto:Marietta.stadler@kcl.ac.uk)

[Amy.Harrison@kcl.ac.uk](mailto:Amy.Harrison@kcl.ac.uk)

[steady-project@kcl.ac.uk](mailto:steady-project@kcl.ac.uk)

Please email us, if you would like to take part in the Delphi survey for T1DE phenotypes:  
[Steady-project@kcl.ac.uk](mailto:Steady-project@kcl.ac.uk)