

The legacy of Gerald Russell for eating disorders in 2020 and beyond

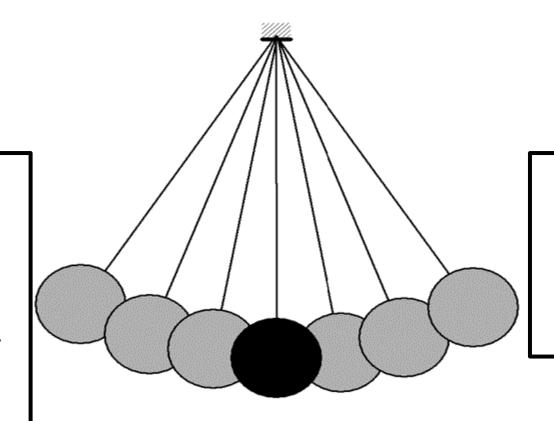
Janet Treasure

Talk Map

- To consider Gerald Russell's legacy.
- What was the historical context?
- What ideas did he generate for anorexia nervosa?
- What ideas did he generate for bulimia nervosa?
- What are the known knowns we have established?

A historical pendulum of Biopsychosocial models

1870
Moral authority of medicine
1980s
Cultural (family) & Feminist
Theories.



1960's
Hypothalamic theories
Metabolic /Endocrine
2010
Brain Based Theories

The Legacy

Maudsley Model of Family therapy

1979-1983: RCT Trial in progress

1987: One year results published

1993: Five year results published

2005: NICE guidelines

2017: NICE guidelines

Bulimia Nervosa

1979: Defined by Russell

1980: Bulimia DSM-III

1987: Bulimia nervosa DSM-III-R

2013: Binge Eating Disorders DSM 5

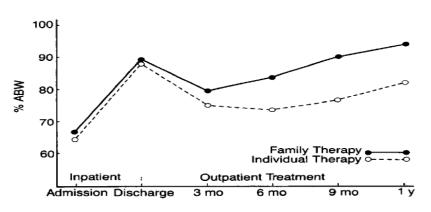


Treatment targeting the social

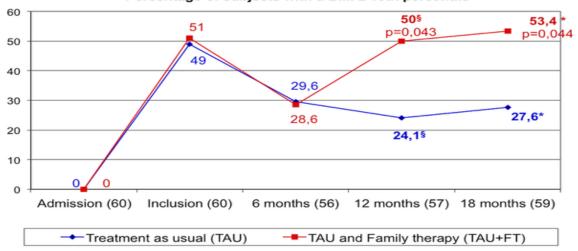


Implicit model of staging/ stratification of patients. Directed a MRC
Trial to compare
family based
therapy (the
Maudsley model)
with individual
therapy.

Family Therapy vs Individual therapy Post Inpatient Care Anorexia Nervosa Adolescents.



Percentage of subjects with a BMI ≥ 10th percentile

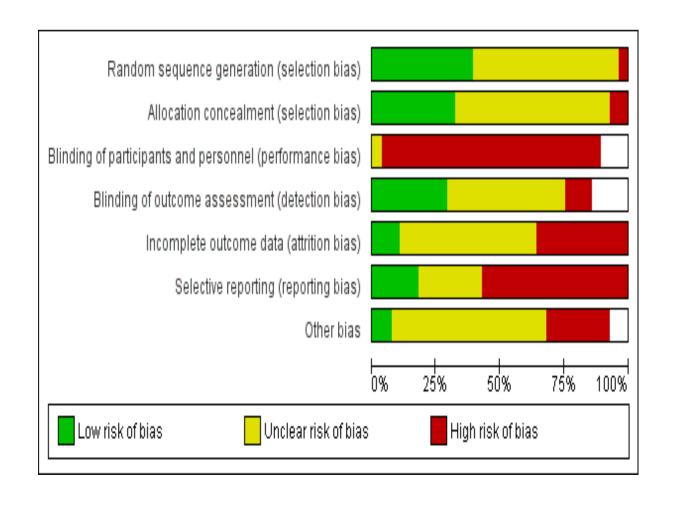


Maudsley. (Russell et al 1987) N=21 Age 16.6y dur 1.2y ABW 65.9%

Replication Study.
Paris. (Godard et al 2013)
N=60 Age 14.8y dur 16/12 BMI 13.6

Family therapy approaches for anorexia nervosa Fisher CA et al 2018 Cochrane Review

Limited amount of low-quality evidence that family therapy approaches > treatment as usual. Based on two small trials with potential bias.



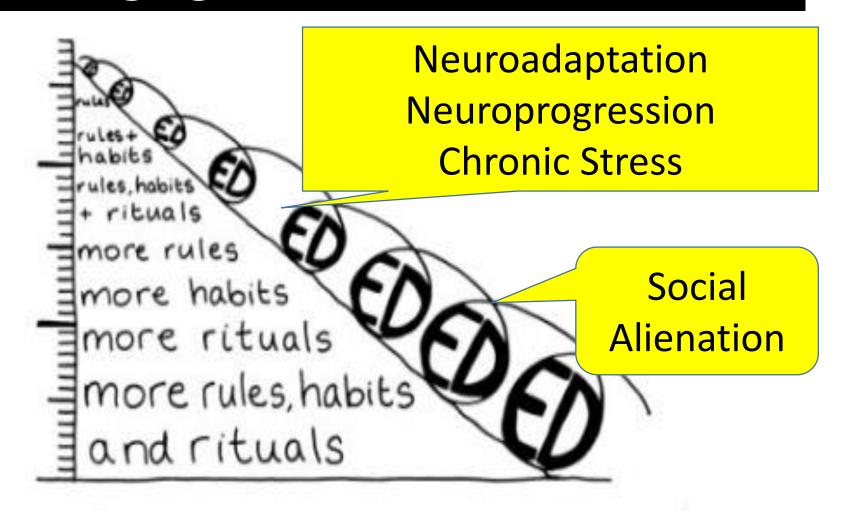
FBT superior only in <18 yr and <3 years of illness

Support for staging of illness in that treatment outcome varied with age/duration of illness (Treasure et al 2015)

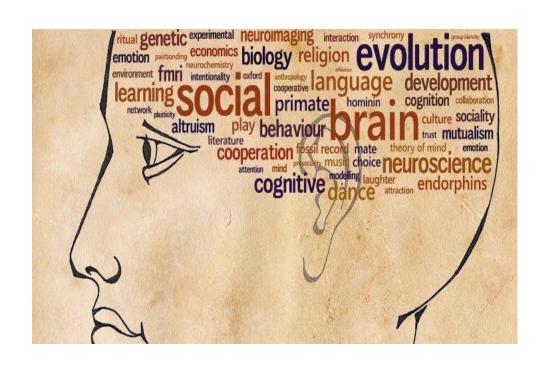
Family based therapy (1984) was agnostic about aetiology but we have come a long way in what we know and what do we know we do not know now.

What are the mechanisms underpinning staging?

Staging of Anorexia Nervosa



Treasure et al 2014, Walsh 2013, Steinglass and Walsh 2016



Neuroprogression

Brain needs 500 Kcal/day- deficits with malnutrition. 2% of body mass but 20% of energy

• The social brain hypothesis: Brain Size @Social Network (Dunbar).

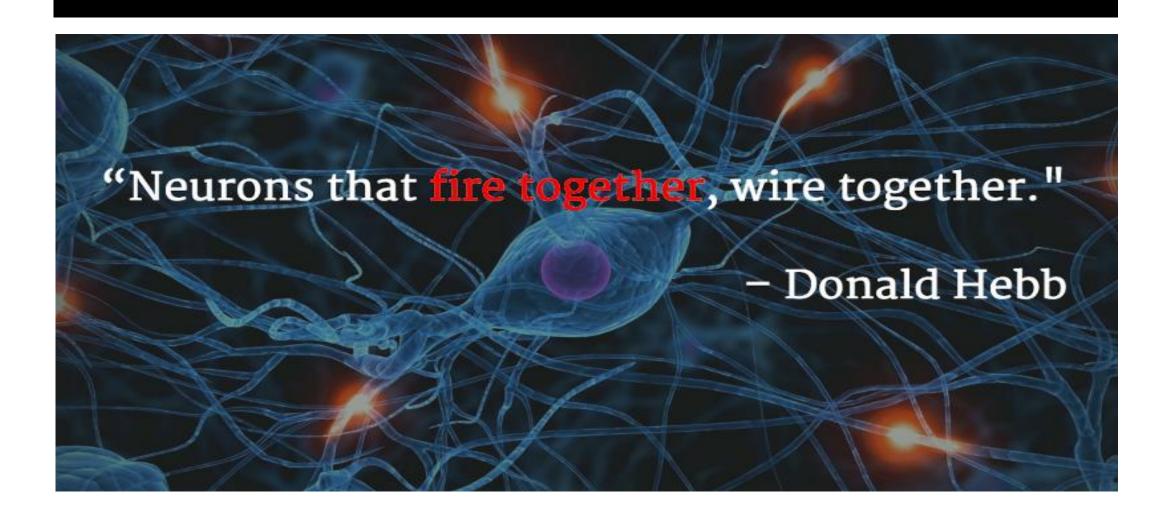




Chronic Stress: Brain on fire

Neuro adaptation: Emotion learning Damage to hippocampus (↓ new learning/neurogenesis)

Neuroadaptation



Problems in Social Cognition



Caglar-Nazali et al Neuroscience and Biobehavioral Reviews (2013)

Domain	Effect
Negative self evaluation	2.2
Lack facial affect	2.0
Attachment insecurity	1.3
Sensitivity to social ranking	1.1
Alexithymia	0.66
Avoidance emotion	0.44
Low parental care	0.55
Reduced agency	0.39
Parental overprotection	0.29

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A meta analysis of reactivity to interpersonal

threat (Monteleone et al 2018)



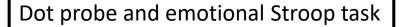










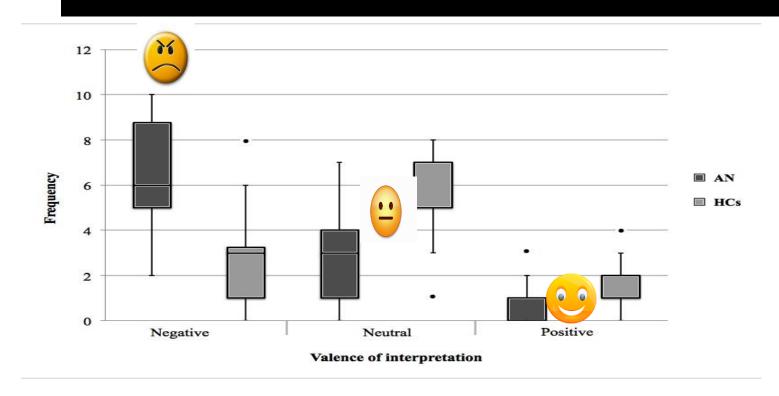


Study-Attentional bias	Clinical group	Effect size (95% CI)
Schneier et al 2016	Anorexia Nervosa	0.07 [-0.30, 0.44]
Cardi et al 2014	Anorexia Nervosa or Bulimia Nervosa —■——	0.57 [0.17, 0.97]
Goddard et al 2013	Anorexia Nervosa or Bulimia Nervosa	-0.11 [-0.51, 0.30]
Kanakam et al 2013	Lifetime diagnosis of Anorexia Nervosa or Bulimia Nervosa	0.55 [0.18, 0.92]
Harrison et al 2010a	Anorexia Nervosa	1.02 [0.51, 1.52]
Harrison et al 2010a	Bulimia Nervosa —■	0.77 [0.35, 1.20]
Cardi et al 2014	Recovered	0.59 [0.19, 1.00]
Harrison et al 2010b	Recovered	0.68 [0.27, 1.10]
Total		0.38 [0.01, 0.76]
RE Model for All Studies (Q = 31	.04, df = 7, p = 0.0001; I ² = 76.9%)	
	-2 -1 0 1	2





Interpretation of Ambiguous scenarios



Social Cues:
Attention focus threat
Interpretation focus on negative

Any reflection?



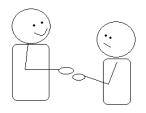
Problems in Social Cognition



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Social communication: facial expressions

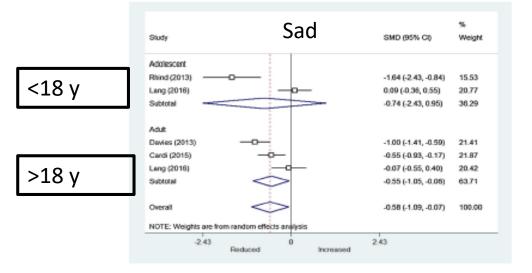


- Acute AN: large +ve/medium-ve
 ↓expression. Adult>Adolescent.
- Recovered AN: 个 positive emotions.





Fig. 2. Forest plot of the meta-analysis for facial emotional expression in response to positive affect in patients with AN.

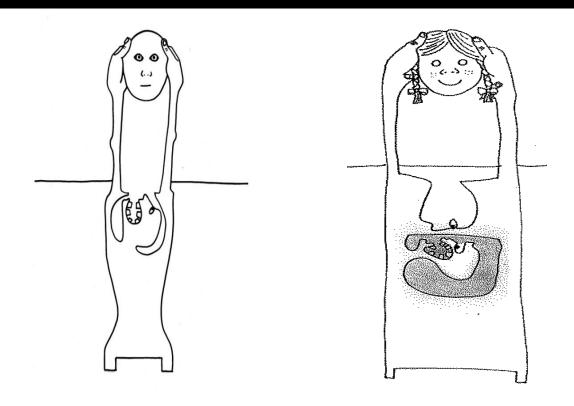




Davies et al., 2016 Neurosci Biobehav Rev

Fig. 3. Forest plot of the meta-analysis for facial emotional expression in response to negative affect in patients with AN.

Social communication inhibited: A blank mask or fake pleasing



Davies et al., 2011, 2013; Dapelo et al., 2016; Lang et al., 2016; Leppanen J. et al. (2017)

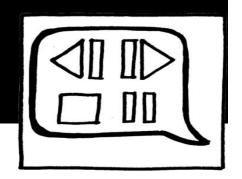
Typical interpersonal relationship with AN



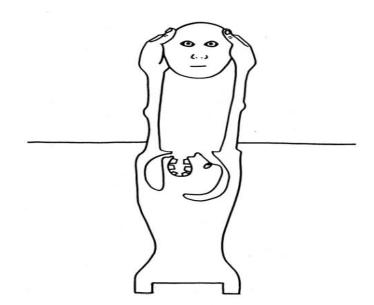
Disruption of interpersonal relationship



The Still face paradigm



- https://www.youtube.com/watch?v=6czxW4R9w2g
- In adults dislike and autonomic arousal when interact with still face (Gross et al 2003).
- Also this is recognised in robots as the "uncanny valley effect".





No reciprocity to warmth, a frosty, "aloof" response.

I was known as the "ice queen" at Uni



Tutors would get annoyed as they thought I did not care.

They did not know what was going on inside.

Davies et al 2013, 2014, 2016, Cardi et al 2014, Rhind et al 2014, Ambwani et al 2016

Confusing Social Signaling

↓ Social cognitionNegative bias↓ Emotional management



Anorexic Voice-

hissing or shouting

I am disgusting. I must try to succeed How many calories in that. What is the food composition. What is my weight. I cannot go above I must keep losing weight. I am weak stupid and lazy and gluttonous. I'm a fat pig. I'm disgusting. I don't deserve to live. etc. etc.

HELP! the scream from body

Note the "dead pan" face

↓ Emotion expressivity (Leppananen et al 2017, Caglar et al 2015)

Problems in Social Perception

- Difficulty detecting intimacy (Costanzo & Archer, 1993)
- Respond coldly to warm feedback (Ambwani et al 2016)
- Less appropriate social problem solving (Sternheim et al., 2012)
- Negative bias attention and interpretation (Cardi et al 2017)



People with AN may have difficulty interpreting & reciprocating warmth. Over sensitised to threat

Any reflection on this?



 Problems in social cognition impact on the therapeutic alliance and family& peer relationships.



Social factors over time

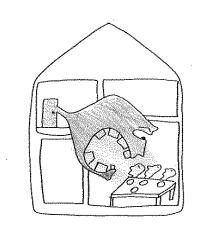
Honeymoon phase –maybe initial praise .

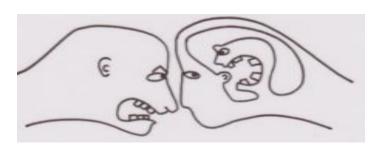
Families and social networks the start to become organised around the symptoms: accommodate, enable or become angry & frustrated or withdraw because of interpersonal difficulties



Interpersonal factors

- Living with or caring about someone with AN is exhausting, relationships can rupture.
- Carers swing from being bullied
- "I really want you to come out to dinner with us, so we'll make sure we go somewhere that serves plain salad" (Accommodating)
- or exasperated
- "You're being ridiculous and ruining everyone else's meal by being so demanding". (Hostile)





Increasing isolation



- "I was recently asked to sum up my experience of anorexia nervosa in one sentence—actually, I can do it in just one word—isolation." (McKnight et al 2009)
- "It's the loneliness that will get you. Not the hunger, or the worrying, or the rituals, or the paranoia. Not even the fear of getting fat. It's the loneliness that's the real killer. The longer you're ill, the worse it is." Melissa

Isolation is Maintaining factor. Carer Skill Therapy to improve interpersonal relationships and increase social network



Magill et al 2016; Hodsall et al 2017

The evidence base from IOPPN

A Pilot, Multicentre Pragmatic Randomised Trial to Explore the Impact of Carer Skills Training on Carer and Patient Behaviours: Testing the Cognitive Interpersonal Model in Adolescent Anorexia

John Hodsoll¹, Charlotte Rhind², Nadia Micali ^{3,4}, Rebecca Hibbs², Elizabeth Goddard², Bruno Palazzo Nazar^{2,5}, Ulrike Schmidt² Simon Gowers⁶, Pamela Macdonald², Gillian Todd², Sabine Landau¹ & Janet Treasure²* Description of the Company of

⁵Department of Biostatatics, King's College-London, Institute of Psychiatry, Psychology & Neuroscience, London, UK Department of Psychological Medicine, Section of Eating Disorders, King's College London, Inditate of Psychiatry, Psychology & Neuroscience, London, UK

⁹Behavioural and Brain Sciences Unit, University College London, Institute of Child Health, London, UK

⁶Adolescent Psychiatry, University of Liverpool, Chester, UK

Aim: The aim of the study is to establish the acceptability, feasibility and approximate size of the effect of adding a carer intervention The train of the same θ and the same θ and θ an

pursue passions, services and view regestions outcomes transmission or visions framework of ficialists.

Roulius Although engagement with ECHO was poor (only 30% of cares in the ECHO go pure alow or 50% of the bods), there were markers efficient extraction fieldly, in that caregives in the ECHO group showed a moderate increase in care skills (ES = 0.4) at 21 months and a reduction in accommodating and enabling behaviour at 6 months (ES = 0.17). In terms of efficacy, in the ECHO group, carers appear less time care griding (ES = 0.03, p = 0.04) at 1 year, and pasterns had a mitore advantage in body must induct (ES=0.17), four enables and the enables of the ena missions, decreased peer problems (ES=-0.36) and more pro-social behaviours (ES=0.53). The addition of telephone guidance to

Conclusions: The provision of self-management materials for carers to standard treatment for adolescent anorexia nervosa shows ben-

Health and Quality of Life Outcomes



Open Access

Development and validation of an Eating Disorders Symptom Impact Scale (EDSIS) for carers of people with eating disorders Ana R Sepulveda*1, Jenna Whitney2, Matthew Hankins2,3 and Janet Treasure1

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Published: 21 April 2008

Health and Quality of Life Outcomes 2008, 6:28 doi:10.1186/1477.7525-6-28

This article is available from: http://www.hglo.com/content/6/1/28

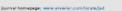
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Journal of Affective Disorders 19I (2019 230-236



Journal of Affective Disorders





An examination of the impact of care giving styles (accommodation and skilful communication and support) on the one year outcome of adolescent anorexia nervosa: Testing the assumptions of the cognitive interpersonal model in anorexia nervosa

Laura Salemo 48, Charlotte Rhind b, Rebecca Hibbs b, Nadia Micali c,d, Ulrike Schmidtb, Simon Gowers*, Pamela Macdonaldb, Elizabeth Goddardb, Gillian Toddf, Gianluca Lo Coco *, Janet Treasure b

Prochdogical Medicine, Section of Eating Disorders, Landon, UK

Two-year Follow-up of a Pragmatic Randomised Controlled Trial Examining the Effect of Adding a Carer's Skill Training Intervention in Inpatients with Anorexia Nervosa

Nicholas Magill¹, Charlotte Rhind², Rebecca Hibbs², Elizabeth Goddard², Pamela Macdonald², Jon Arcelus^{3†}, John Morgan⁴, Jennifer Beecham⁵, Ulrike Schmidt², Sabine Landau¹ & Janet Treasure²*

¹Biospelistics Department, KOPPN, London, UK

Department of Psychological Medicine, King's College, JoPPN, Landon, UK

School of Sport, Exercise and Health Sciences, Loughborough University, Loughborough, UK orkshire Centre for Eating Disorders, Leeds Partnerships NHS Foundation Trust, Leeds, UK

Background: Active family engagement improves outcomes from a dolescent inpatient care, but the impact on adult anorexia nervosa is

Aim: The aim of this study was to describe the 2-year outcome following a pragmatic randomised controlled trial in which a skill training name rise and on this study was of use, the first of particular consuming a programme, transcribent controlled in the ment of the intervention (Experienced Caregivers Helping Chers) for cares was added to implicate care.

Method: Patient, caregiver and service outcomes were measured for 2 years following discharge from the index inputent admixed to the experienced Caregivers and service outcomes were measured for 2 years following discharge from the index inputent admixed in the Experienced Caregivers Helping Others group over 2 years. The marked change in body mass index and care of time caregiving following

inpatient care was sustained. Approximately 20% of cases had further periods of inpatient care. Conclusion: In this predominately adult anorexia nervosa sample, enabling carers to provide a ctive support and management skills may improve the benefits in all symptom domains that gradually follow from a period of inpatient care. Copyright © 2015 John Wiley & Sons, Ltd and Eating Disorders Association.

Cognitive interpersonal maintenance model of eating disorders: intervention for carers

Elizabeth Goddard, Pamela Macdonald, Ana Rosa Sepulveda, Ulrike Naumann, Sabine Landau, Ulrike Schmidt and Janet Treasure

A pre-test-post-test design was used with carers randomised

Alms
To earnine an interpresonal maintenance model of eating disorders, using a self-help intervention for cares.

Method

Method

A pre-eas-pose-ear coage, usace were care a recommand from self-early or guided self-eigh, which included the Deport Casers Helping (others ECHOI intervention. Carers' distress, sewbl-being, prospect maintenance factors, and carer reports on the status of the patient were measured.

Description of interest: Li is co-author of the book used in the ECHO intervention and was part of the team who developed the DVDs. P.M. was one of the telephone coaches in the project.

Eur Child Adolson Psychiatry (2016) 25:1337-1347 DOI 10.1007/A0078T-016-0859-9 ORIGINAL CONTRIBUTION

A longitudinal examination of dyadic distress patterns following a skills intervention for carers of adolescents with anorexia

Raceived: 29 January 2016 / Accepted: 23 April 2016 / Published online: 9 May 2016 © Springer-Verlag Berlin Heidelburg 2016

Clinical effectiveness of a skills training intervention for caregivers in improving patient and caregiver health following in-patient treatment for severe anorexia nervosa: pragmatic randomised controlled trial

Rebecos Hibbs, Nicholas Magill, Elizabeth Goddard, Charlotte Rhind, Simone Raenker, Pamela Macdonald, Gill Todd, Jon Arcelus, John Mongan, Jennifer Beecham, Ulrike Schmidt, Sobne Landau and Janet Treasure

Background Scale, (DSB), expressed emotion (Family Questionnaire, FQ) Familias express a need for information to support people with swere anomals nervose.

Solid port careging at a months but these effects were swere anomals nervose.

Aims
To examine the impact of the addition of a skills training

Theorems with car regions in the ECHO group had include earing.

Copyright and usage

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BMC Health Services Research



Development and validation of the Accommodation and Enabling Scale for Eating Disorders (AESED) for caregivers in eating disorders

Ana R Sepulveda*1, Olivia Kyriacou2 and Janet Treasure1

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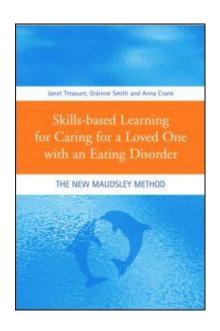
Email: Ana R Senulveda* - a senulveda@ton kel acuk: Olivia Kvitacou - o kvitacou@ton kel acuk: lanet Treasure - tireasure@ton kel acuk

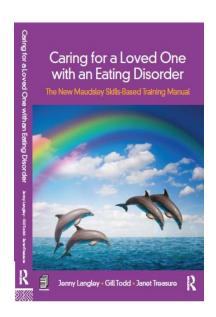
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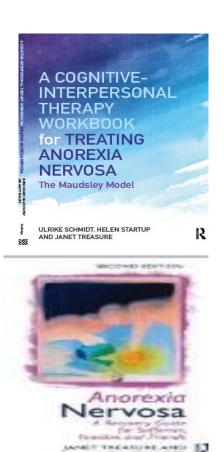
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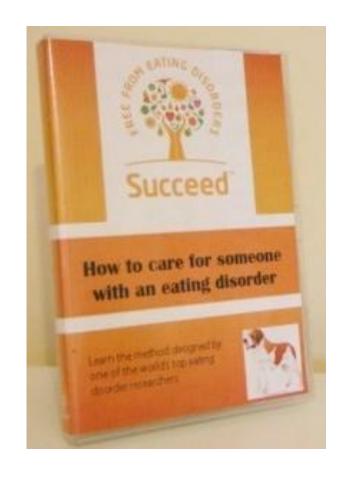
RMC Health Sentre: Research 2009 @171 | doi:10.1186/1477-6963-9-171 This article is available from http://www.htmps/control.com/1477.4943.9/17/

© 2009 Seculards et al: Invense BioMed Central I tri





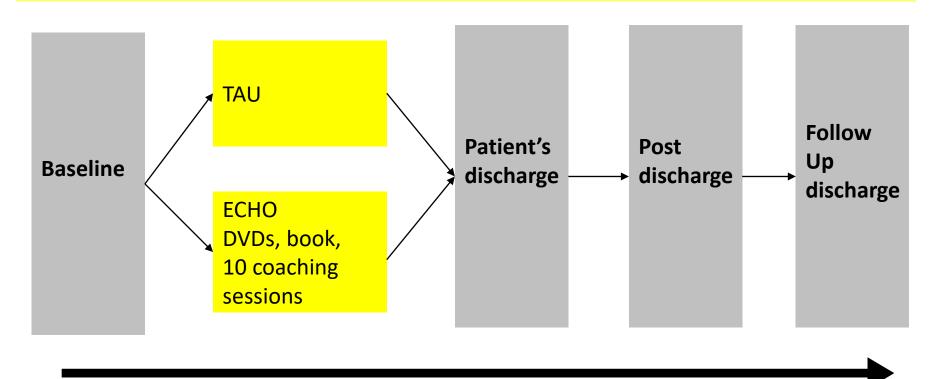




Materials used for guided task sharing with carers. Skills to reduce interpersonal maintaining factors

Does ECHO improve outcome from inpatient care for patients with severe enduring anorexia nervosa?

Assessment carer (n= 267) and patient (n=178)



Hibbs et al 2016, Magill et al 2017

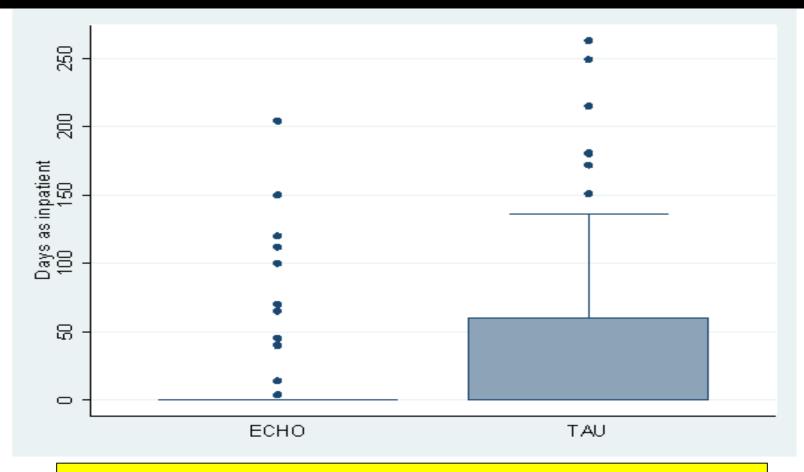
discharge

6

12 & 24

BMI =14 (2.1); Age 27 (9.3): 69% > 3y, 47% > 6y

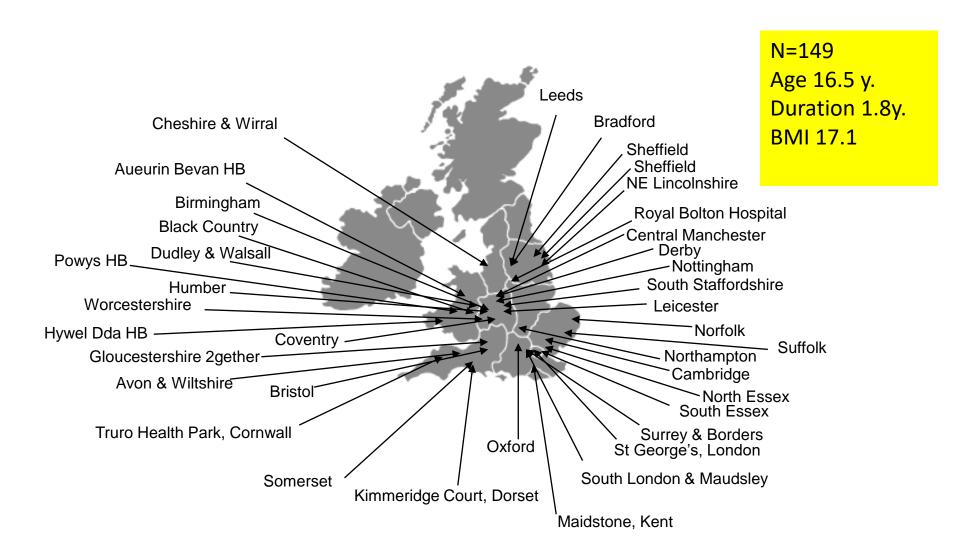
Adult: Bed Usage in first 6 months after admission



Hibbs et al BJPsych Open 2015;1(1):56-66.

Multi centre RCT for outpatients under 21 years (Hodsall et al 2017)

38 NHS ED services (17 CAMHS, 13 adult, 8 both)



Number of Hospital Admissions: Adolescents (Hodsall et al 2017)

Patient/carer Group	6 months	12 months
ECHO	12%	9%
TAU	16%	8%

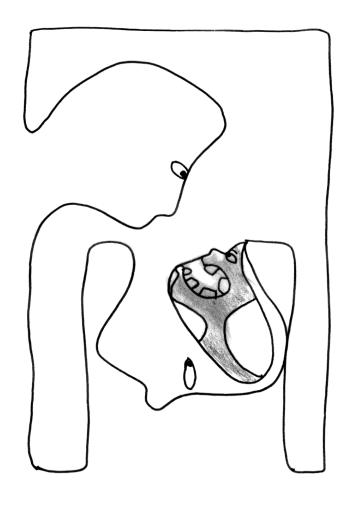
The impact on Carers

- Skills 个
- Expressed emotion ↓
- Accommodate ↓
- Time caring ↓









Families can be a bridge to social connection by repairing relationships

The good news

- Work with carers can moderate these difficulties and have an impact on the interpersonal environment.
- Skills training for carers reduces the need for admissions and improves carer well being.



The Legacy

Maudsley Model of Family therapy

1979-1983: RCT Trial in progress

1987: One year results published

1993: Five year results published

2005: NICE guidelines

2017: NICE guidelines

Bulimia Nervosa

1979: Defined by Russell

1980: Bulimia DSM-III

1987: Bulimia nervosa DSM-III-R

2013: Binge Eating Disorders DSM 5



Bulimia Nervosa is Born: Case Series (n=30)

Psychological Medicine, 1979, 9, 429-448
Printed in Great Britain

Bulimia nervosa: an ominous variant of anorexia nervosa

GERALD RUSSELL¹

From the Academic Department of Psychiatry, Royal Free Hospital, London

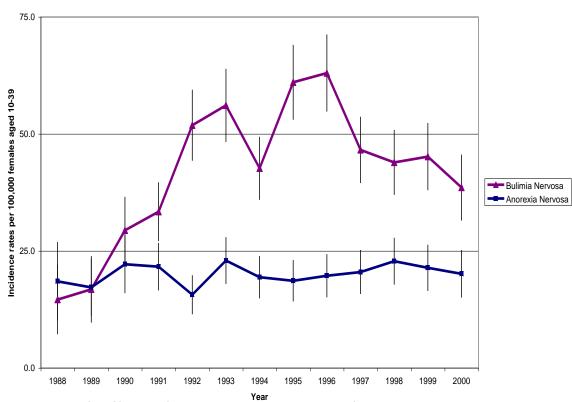
SYNOPSIS Thirty patients were selected for a prospective study according to two criteria: (i) an irresistible urge to overeat (bulimia nervosa), followed by self-induced vomiting or purging; (ii) a morbid fear of becoming fat. The majority of the patients had a previous history of true or cryptic anorexia nervosa. Self-induced vomiting and purging are secondary devices used by the patients to counteract the effects of overeating and prevent a gain in weight. These devices are dangerous for they are habit-forming and lead to potassium loss and other physical complications. In common with true anorexia nervosa, the patients were determined to keep their weight below a self-imposed threshold. Its level was set below the patient's healthy weight, defined as the weight reached before the onset of the eating disorder. In contrast with true anorexia nervosa, the patients tended to be heavier, more active sexually, and more likely to menstruate regularly and remain fertile. Depressive symptoms were often severe and distressing and led to a high risk of suicide.

A theoretical model is described to emphasize the interdependence of the various symptoms and the role of self-perpetuating mechanisms in the maintenance of the disorder. The main aims of treatment are (i) to interrupt the vicious circle of overeating and self-induced vomiting (or purging), (ii) to persuade the patients to accept a higher weight. Prognosis appears less favourable than in uncomplicated anorexia nervosa.

A Theoretical model
These devices (eg purging)
are habit forming......
Role of self perpetuating
mechanisms.



"Don't step on it . . . it makes you cry."



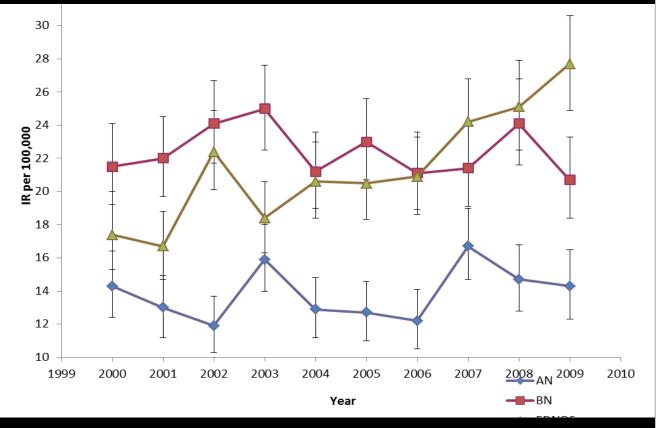
Turnbull et al., 1996; Currin et al., 2004

Bulimia nervosa presenting to GP

Bulimia Nervosa Binge Eating Disorder

Community Cases (Solmi et al 2015)				
	OR			
Black	1.2			
Asian	1.9			
Other	1.8			
Underweight	1.6			
overweight	1.5			
Obese	2.1			
Female	2.0			

Cases presenting to primary care in UK (Micali et al 2013)



10% M= 5.9%, F= 12.2% (N=164) ED behaviours in community previous year & 20% @ primary care (Solmi et al 2015).

	All	Males	Females	χ test
Whole sample	18.3	8.6	27.7	< 0.001
11-13 years old ($n = 252$)	7.2	7.1	9.4	NS
14–16 years old (n = 365)	19.2	7.3	32.8	< 0.001
17-19 years old ($n = 153$)	32.7	14.5	49.4	< 0.001
Underweight $(n = 38)$	8.1	6.3	9.1	NS
Normal weight $(n = 533)$	14.9	6.9	23.3	< 0.001
Overweight $(n = 147)$	28.9	15.2	42.0	< 0.01
Obese $(n = 22)$	38.1	14.3	53.3	NS

Data are presented as percentages and significance levels of the differences between males and females. NS, not significant.

Norway (Wisting et al 2013) — see above UK — 36% (Johnson et al 2014)
Germany-9% (467/52215) (Scheuing et al 2014))

High Prevalence of eating disorders (diabulimia) in Type I Diabetes Mellitus.

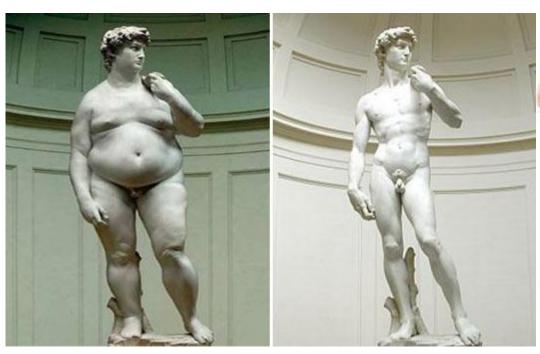
What does epidemiology tell us about causation?

Many studies have documented the rising incidence in BN and BED from people born in 1950's onward.

High risk groups:

- Type1 diabetes
- Urban dwellers.
- Dietetic & aesthetic body students.

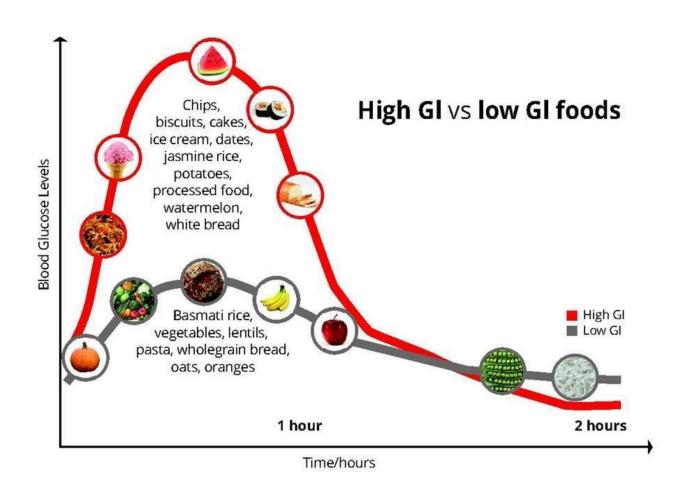
Changing body image



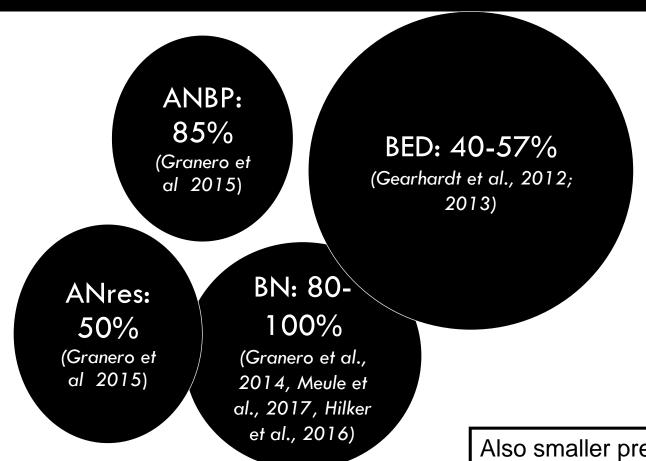


Changes in foods and eating behavior

- Content: Processed foods with added refined carbohydrates and fat and/or with high glycaemic/salt load are most "addictive" (Schulte et al., 2015)
- Pharmacokinetics: Rate change glucose (e.g. balance between food absorption (high GI foods) and metabolism (insulin; baseline glucose etc). (Treasure et al 2018, Brewerton 2015)



Food Addiction & Eating Disorders



Also smaller prevalence in depression, anxiety
Systematic review (Burrows et al 2018)

Predisposing factors

Childhood Eating Behaviour BN, BED



Prospective

↑ BMI @ age 7 y ↑binge eating/diet &, weight and shape concerns in M & F @ 13 y (Reed et al 2018)

Child overeat ↑BED @ 16y (Sonneville et al 2015)

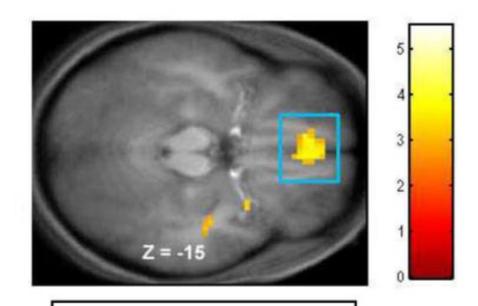
Association between binge-eating at either age 14 or 16 and rs1558902 (FTO gene) (OR=1.3, p≤0.01) and polygenetic risk for obesity (Micali et al 2016)

FTO gene tncrease childhood appetite and weight (Wardle et al 2009; Cecil et al 2008)

Perpetuating factors

Common Brain Circuitry: BN/BED & Addiction

 Reduced dopamine binding is observed in BN (Broft et al., 2012; Steward et al., 2017) and obesity (Wang et al., 2004)



Effect size z-value = 0.55

Building models

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INVITED REVIEW

Wiley

Are trans diagnostic models of eating disorders fit for purpose? A consideration of the evidence for food addiction

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Abstract

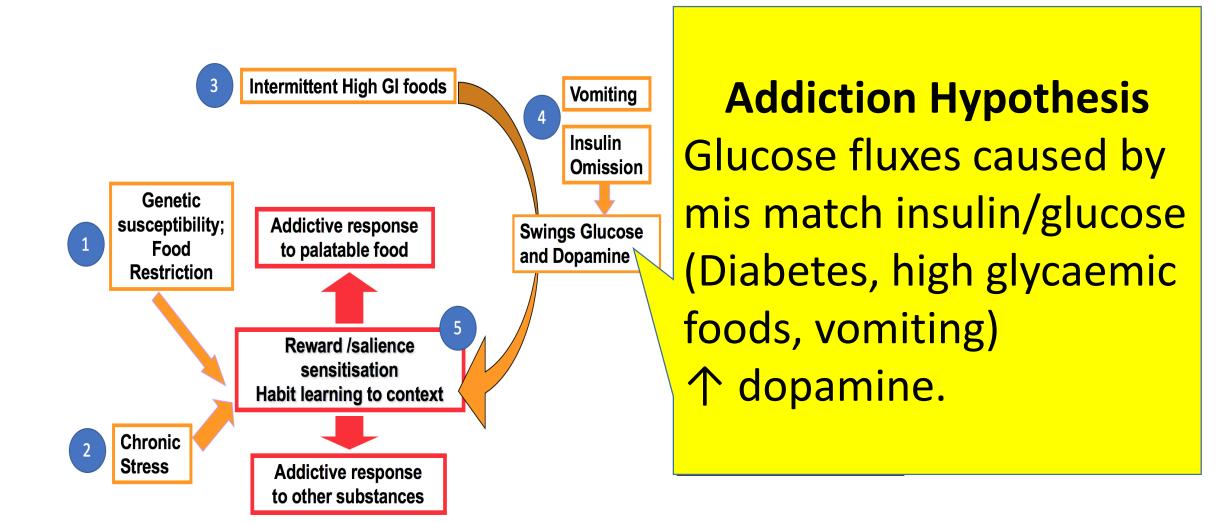
Explanatory models for eating disorders have changed over time to account for changing clinical presentations. The transdiagnostic model evolved from the maintenance model, which provided the framework for cognitive behavioural therapy for bulimia nervosa. However, for many individuals (especially those at the extreme ends of the weight spectrum), this account does not fully fit. New evidence generated from research framed within the food addiction hypothesis is synthesized here into a model that can explain recurrent binge eating behaviour. New interventions that target core maintenance elements identified within the model may be useful additions to a complex model of treatment for eating disorders.

KEYWORDS

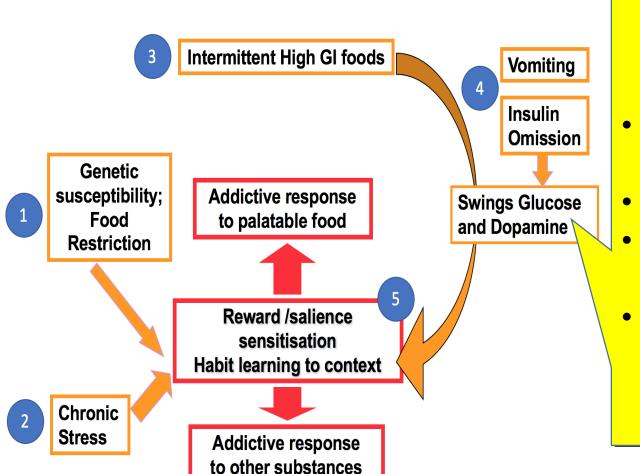
binge eating disorder, bulimia nervosa, food addiction, insulin, neuroadaptation

Also Wiss & Brewerton 2016 The disordered eating food addiction nutrition guide (DEFANG)

A maintenance model of binge eating



Implications for Treatment



Treatment Implications

- Regular meals with complex carbohydrates.
- Avoid sugar snacks/drinks
- Avoid behaviours give insulin/metabolism mismatch
- Medication: reward system opiate/cannabinoid/ dopamine

Conclusion —a few of the milestones

- Gerald brought eating disorders into Psychiatry in the UK.
- Gerald proved that randomised trials of psychotherapy were possible.
- Gerald recognised the importance of stratification of patients (precision psychiatry before the term was invented).
- Family based therapy (the Maudsley Model) remains recommended treatment for adolescent anorexia nervosa.
- Gerald listened to patients stories and recognised bulimia nervosa as a new form of eating disorder.
- These models need to be updated with new evidence we can no longer be agnostic about aetiology.

Reflections on Gerald

• The truly great thing about Gerald to me is the way he changed his view based on his own scientific enquiry. He was not scientifically bigoted or blinkered. He even recognised when he was wrong (or amiss might be better phrase in the light of more recent research). So as examples he rejected his early hypothalamic theory. The efficacy of family therapy was against the run of his original ideas. HL

Reflections on Gerald

- Strengths: a physician in the traditional mould, with fantastic powers of observation and ability to see patterns in random pictures, which no-one else could see eg the discovery of bulimia nervosa PR
- ..good at collecting people around him who were experts in their field and represented ways of thinking that were different from his eg family therapy group.PR
- Immense kindness with patients and families as well as his trainees.
 PR.