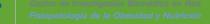
Dr. Sarah Sauchelli Toran

NIHR Bristol Biomedical Research Centre (Nutrition)

Embedding Eating Disorders research in the clinical protocol: An example from Spain















1. Background

2. Conducting research from within an Eating Disorders Unit

3. Research Output

BACKGROUND – Current work



NIHR Bristol BRC
Nutrition Theme
Level 3,
University Hospitals
Bristol Education &
Research Centre
Upper Maudlin
Street, Bristol
BS2 8AE

We aim to turn basic scientific discoveries into clinical research for the benefit of patients and the NHS.

Workstream

- Diet, activity and lifestyle in people with cancer
- Improving metabolic control in people with type 2 diabetes
- Optimising nutrition in children with obesity and other common chronic diseases
- Improving peri-treatment nutrition

BACKGROUND

PhD Thesis: "Physical Activity and Sleep in Extreme Weight Conditions"

Affiliated Institution: Faculty of Medicine and Health Sciences University

of Barcelona.





Advanced Research Group in ED and Obesity Research.

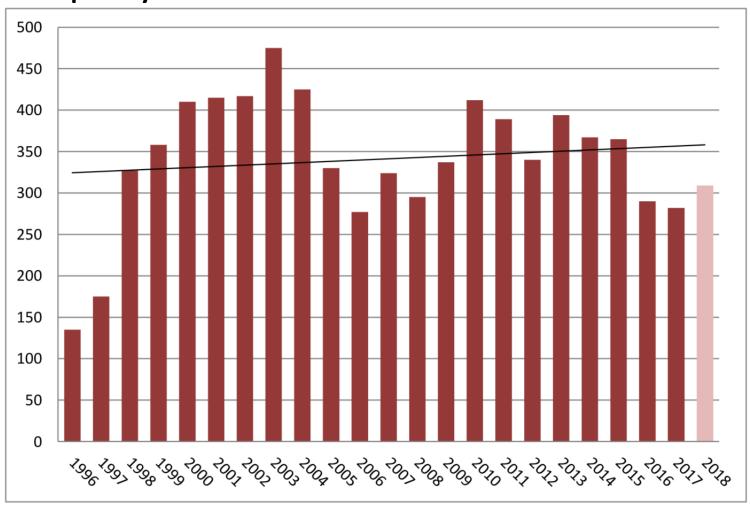


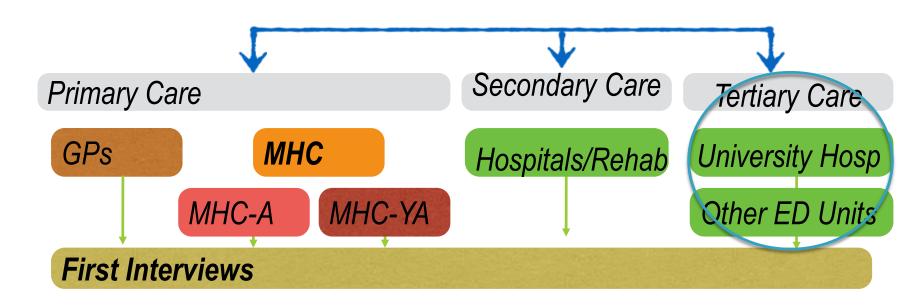
- Clinical Psychologists and psychiatrist
- Psychologists in training
- PhD students and postdoctoral researchers
- Nurse
- Dietitian
- Statistician

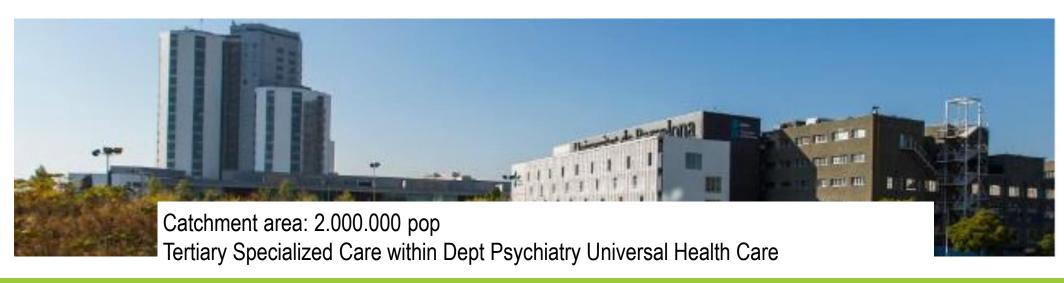
Head of group: Prof. Fernando Fernandez-Aranda

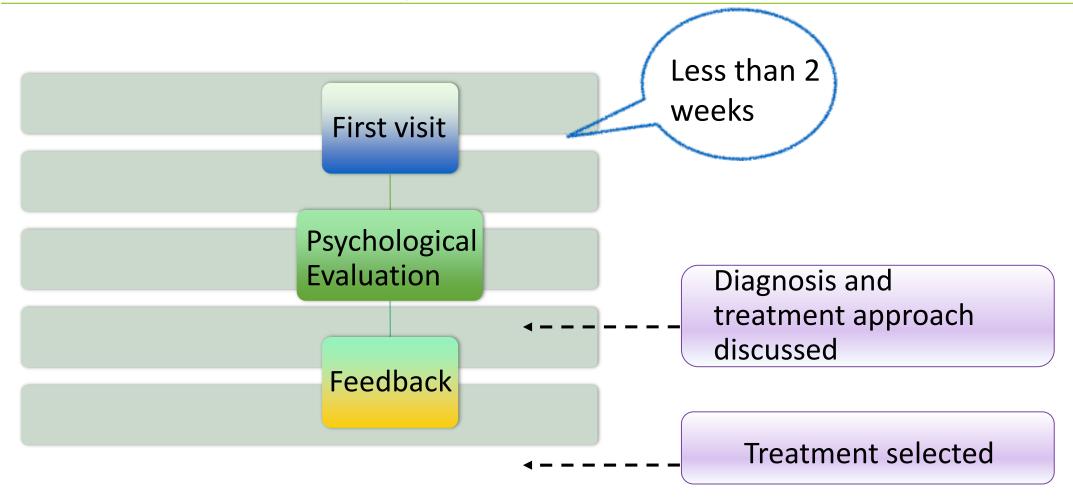
- Anorexia Nervosa (subtypes AN-R, AN-BP)
- Bulimia Nervosa (BN)
- Binge Eating Disorders (BED)
- Other Specified Feeding or Eating Disorders (OSFED)
- Others: PICA, Rumination Disorder, Avoidant/Restrictive Food Intake Disorder, Unspecified Eating Disorder

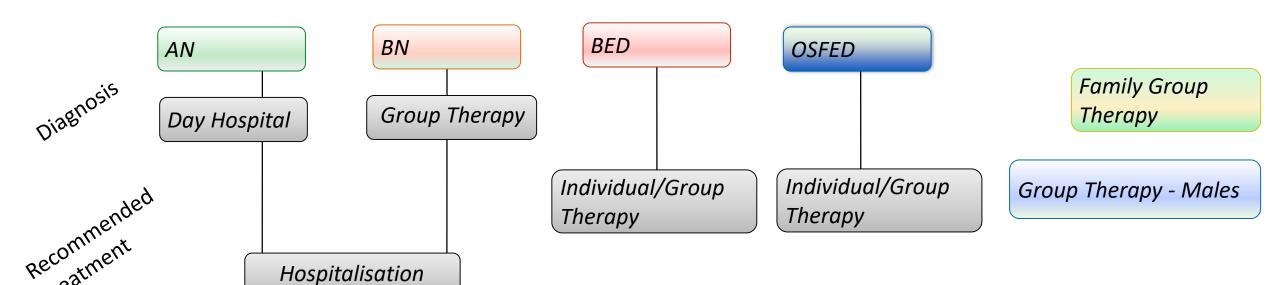
New Referrals per year:









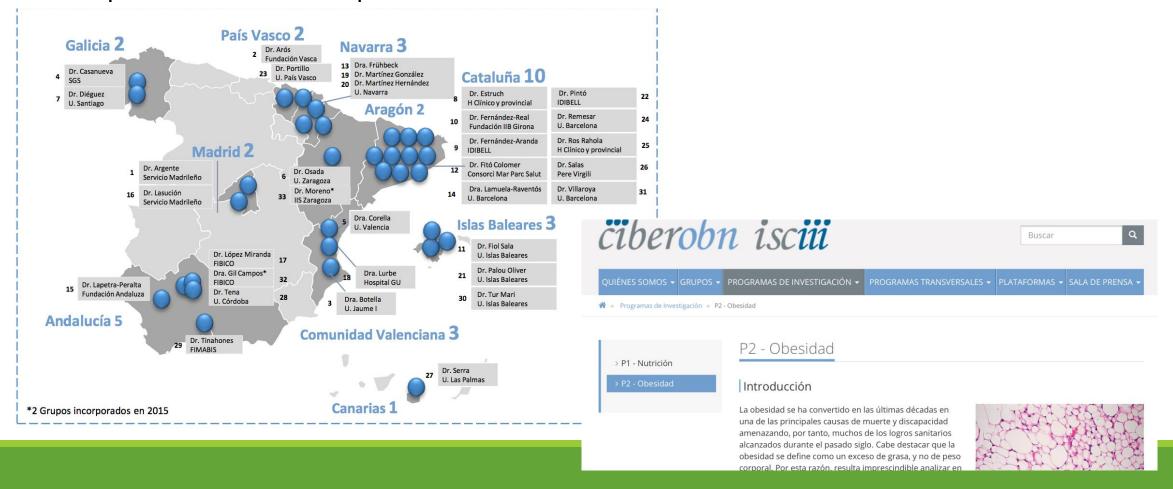




- Researchers actively support all clinical programmes:
 - a) Clinical assessment for diagnosis
 - b) Supervision
 - c) Group therapy

CIBERobn: Collaborative Research Network in Obesity and Eating Disorders in Spain – Active since 2007

33 Groups from different disciplines



Obtaining ethics

United Kingdom:

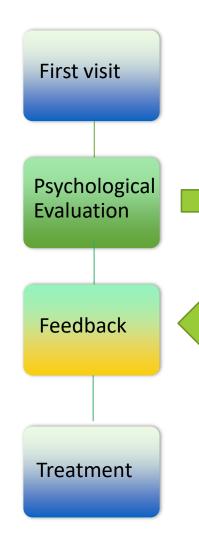


- Centralised
- Slow turnaround
- 1 application per study
- Amendments required for minor changes

Spain:



- Hospital-based
- Turnaround 1-2 months after submission
- 1 application per project
- Flexibility



Questionnaires

- Sociodemographic characteristics
- Subjective experience of ED
- Temperament and Character Inventory R
- Eating Disorders Inventory-2
- Symptom Checklist-90-R
- Barratt's Impulsivity Scale

Semi-Structured Interviews

- Symptomatic behaviour
- History of ED and weight
- Compulsive/impulsive behaviour



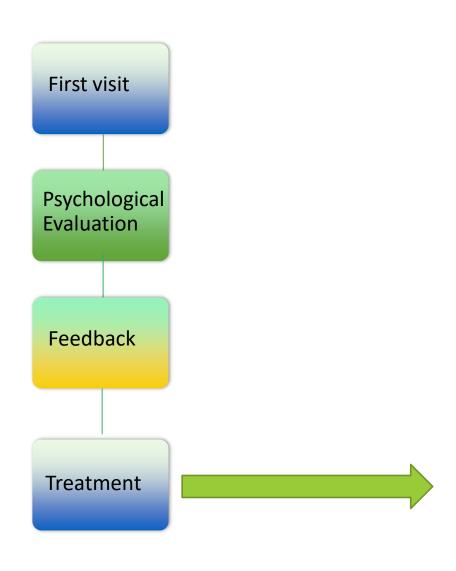
Esta	nt civil:	En cas d'estar solter/a es troba actualment:		
1 Casat/a		1 Amb xicot/a		
2	Solter/a	2 Sense xicot/a		
3	Divorciat/a			
4	Vidu/vidua			
1	Estudis primaris	1 Treballa		
	Graduat escolar	2 En atur		
3	Batxillerat no acabat	3 Estudiant		
4	Babillerat acabat	4 En formació		
5	cou	5 Mestressa de casa		
6	Formació professional no acabada	6 Baixa laboral		
7	Formació professional acabada	7 Treballa i estudia		
8	Estudis universitaris no acabats			
9	Estudis universitaris acabats			
10	Altros			





DÍA/HORA	DÓNDE/CON QUIÉN	COMIDA	A/V IA/IV	SITUACIÓN
Dia: / /		DESAYUNO		
		Sólidox		
		Líquido:		
		COMIDA 1er plato:		
		2º plato:		
		Postre:		
		MERIENDA		
		CENA		
		1er plato:		
		2º plato:		
		Postre:		

A: Atracón; V: Vórnito; IA: Impulso al atracón; IV: Impulso al vón

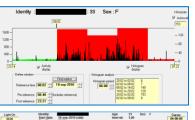


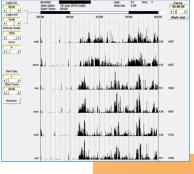
Patients approached about potential involvement in research. Based on:

- Cleared for research participation by clinical psychologist/psychiatrist
- Current studies
- Diagnosis
- Treatment followed
- Study eligibility criteria

RESEARCH IN CLINICAL PRACTICE







* * • •





STROOP

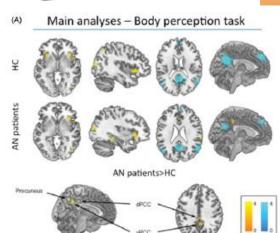


IOWA



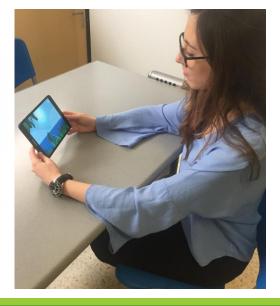
Questionnaires

- Pittsburgh Sleep Quality Index
- Compulsive Exercise Test
- Epworth Sleepiness Scale
- Yale Food Addiction Scale









RESEARCH IN CLINICAL PRACTICE

Feedback

"It gives you something to do during the day." AN patient – day hospital

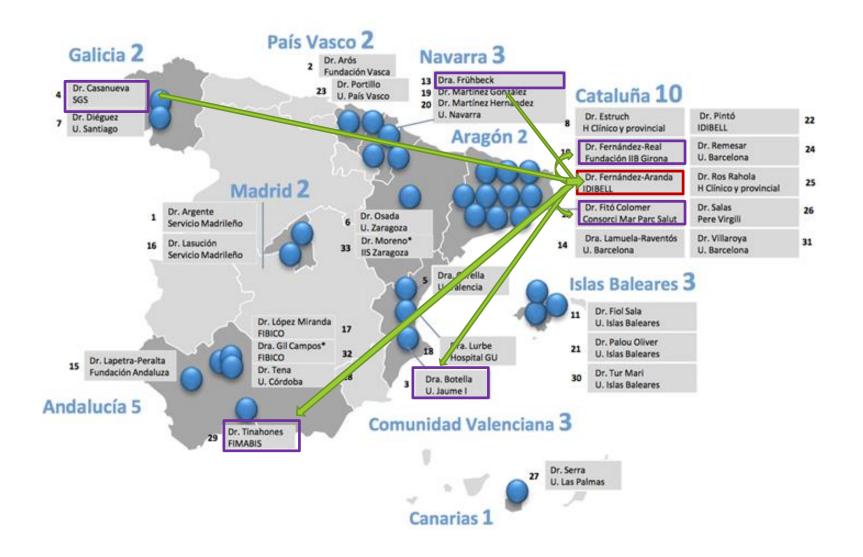
"They are entertaining activities to do between therapies, where you do not have to think about yourself or your condition." AN patient – day hospital

"You learn so much about yourself!" AN patient – day hospital

"It feels good to know you are giving something back." BED patient – weekly group therapy

"If it can help improve treatment for myself or other people like me, why not?" BN patient – weekly group therapy

RESEARCH IN CLINICAL PRACTICE



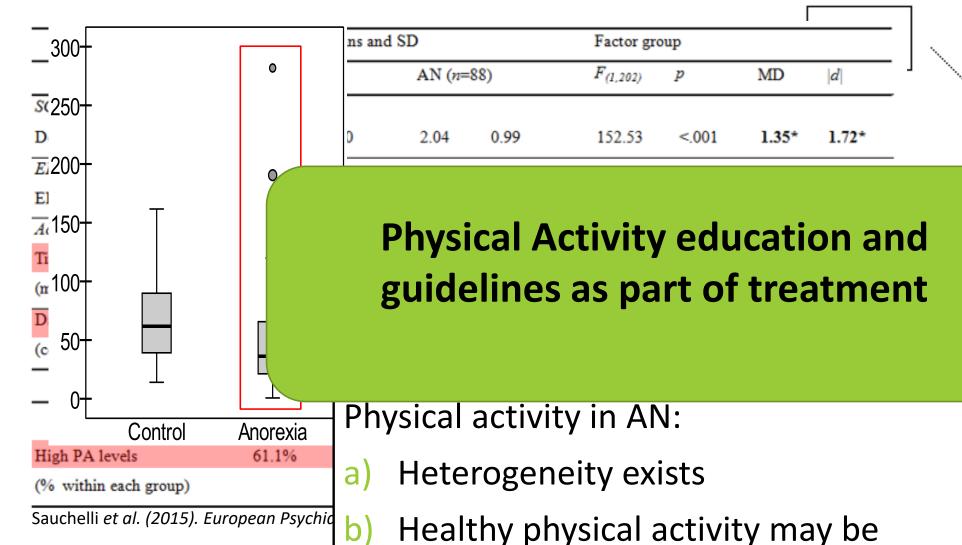
RESEARCH OUTPUT

- Risk Factors Associated with Eating Disorders and Obesity (neurocognition, hormones, clinical personality, sensorial aspects, brain activity, DNA-GWAS)
- Common and differential factors in extreme weight conditions.
- Eating disorders and behavioral addictions.
- Food Addiction and Therapeutic Implications
- Response to treatment and new technologies
- Nutrition and Cognition

RESEARCH OUTPUT – Associated Psychobiological Factors

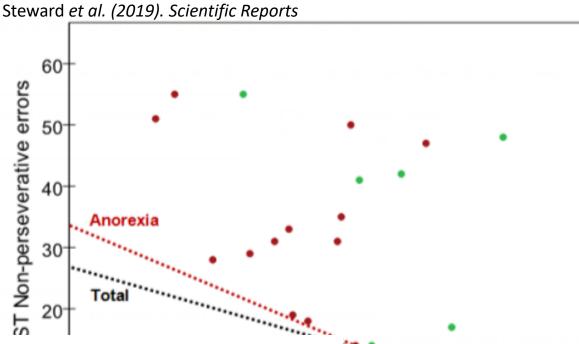
beneficial for treatment outcome.

Poor Outcome



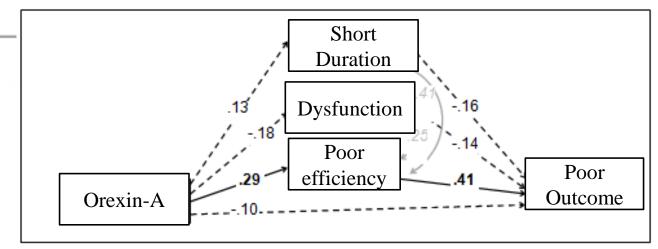
RESEARCH OUTPUT – Associated Psychobiological Factors

Orexin on cognitive performance



кin

Orexin = neuropeptide implicated in arousal, reward, food intake, cognition.



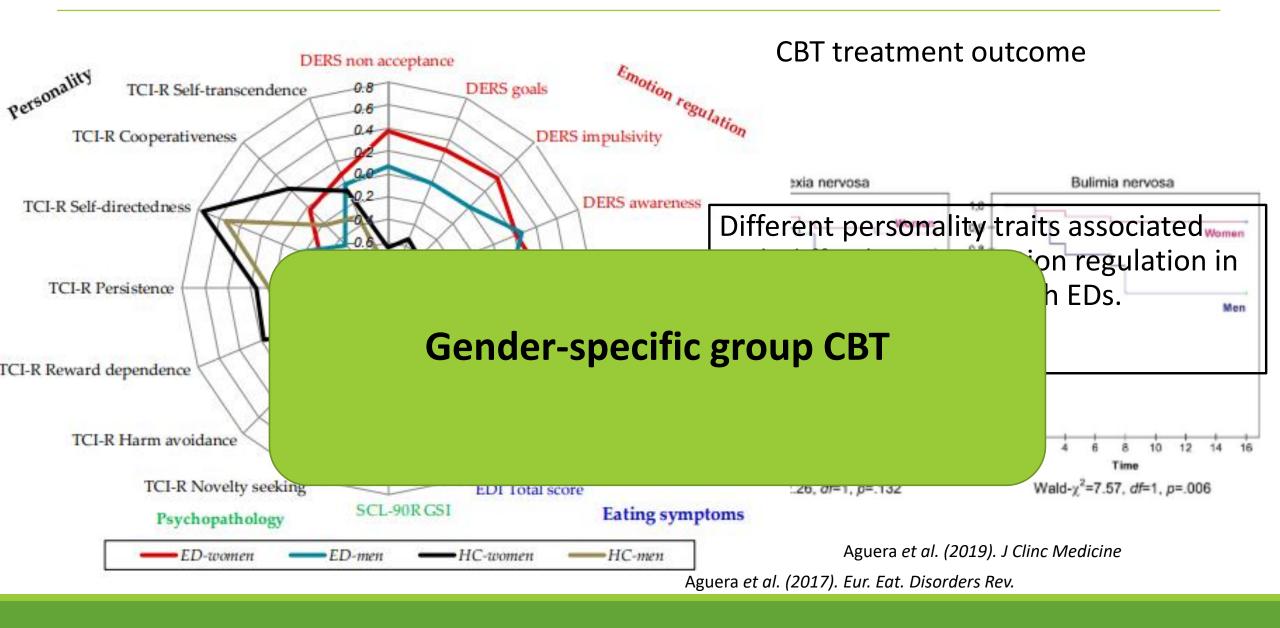
Orexin on poor sleep quality and treatment outcome. *Sauchelli et al. (2016). Psychoneuroendocrinology.*

Orexin in Anorexia Nervosa is associated to:

- a) poorer cognitive performance
- b) impoverished sleep

Effects on treatment outcome in Anorexia Nervosa.

RESEARCH OUTPUT – Gender Differences

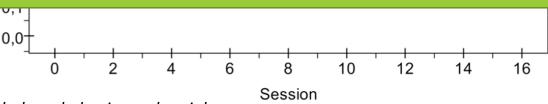


RESEARCH OUTPUT – Response to treatment and new technologies

Adjunct use of Serious Videogames during CBT improves outcome

CBT+ SVG: 20 CBT-SVG: 18

Patients with highly impulsive traits received additional sessions with the videogame or are given a mobile phone app to practice at home.



Fernandez-Aranda et al. (2015). Cyberpsychology, behavior and social networking.

RESEARCH OUTPUT – PredimedPlus











HOME

TEAM ▼

CONTACT US



NEWS

MARCH 18, 2019

The Jiménez Díaz Foundation honors the volunteers of the PREDIMED-Plus-Madrid Study

DECEMBER 17, 2018

Researchers from the University of Toronto visit PREDIMED-Plus

Patients referred to the **Eating Disorders Unit for** neurocognitive assessment

PREDIMED-PLUS CLINICAL TRIAL

The Predimed-Plus clinical trial has become the biggest milestone in nutrition investigation accomplished in Spain. Predimed-Plus evaluates the effect of an intensive lifestyle intervention aiming at losing weight with an energy-restricted Mediterranean diet, physical activity promotion and behavioral support on the primary prevention of cardiovascular diseases.

6,874 participants were recruited in 23 centers and hospitals, with the support of other 7 groups.



CONCLUSIONS

Embedding research in the clinical protocol...

.... Is possible, but requires a very open and proximal collaboration between researchers and clinicians.

.... Can facilitate the research process and patient-led research questions.

.... Speeds up evidence-based clinical practice.

.... Shape the way researchers understand a clinical condition.

Feedback from patients is positive.

THANK YOU FOR YOUR ATTENTION



Acknowledgements



Centro de Investigación Biomédica en Red Fisiopatología de la Obesidad y Nutrición

Prof. Fernando Fernandez-Aranda

Prof. Jon Arcelus

Dr. Isabel Sanchez

Dr. Nadine Riesco







The research team and patients at the Eating Disorders Unit