







Autism care pathway in Europe

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AIMS-2-TRIALS Consortium.











Disclosure: Celso Arango

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Roche	Х		Х
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Schering-Plough	Х		
Shire	x		
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Stanley Foundation			
Takeda T	Х	Х	Х
Teva			



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EBC innovative research: converge data into policy recommendations.

Value of Treatment Study VoT2

https://www.braincouncil.eu/projects-and-initiatives/vot2/



AIMS-2-TRIALS stands for Autism Innovative Medicine Studies-2-Trials.

WP5 Autism Policies package objectives are:

- 1. Carry out high quality policy relevant research with autistic people and carers
- 2. Engage with autistic people and families throughout the project and communicate research outcomes with the community.
- 3. Communicate research findings to policy makers to help develop and implement policies that support autistic people and their families.

For further information and 10 Points of change survey exploring policy priorities: <u>https://www.aims-2-trials.eu/our-research/autism-policy-across-europe/</u>

Value of Treatment (VoT) study

2nd ROUND 2019-2021 BRIDGING THE GAPS & ACHIEVING SEAMLESS, COORDINATED CARE

Step 1: To identify the treatment gaps/unmet needs of autistic children and causing factors are pathway analysis.

- A care pathway is a multidisciplinary management tool based on the healthcare plan for a specific group, in which the different tasks by the professionals involved in their care are defined, optimized and sequenced (Schrijvers et al 2012).
- The aim of a care pathway is to enhance quality of care by promoting people's safety, increasing their satisfaction with services, and optimizing the use of resources (Mohr, et al 2018).



European Psychiatry

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Research Article

Step 2: Economi https://link.spri

Cite this article: Mendez MA, Canitano R, Oakley B, San José-Cáceres A, Tinelli M, Knapp M, Cusack J, Parellada M, Violland P, Derk Plas JR, Murphy DGM, Quoidbach V, Arango C (2023). Autism with co-occurring epilepsy care pathway in Europe. *European Psychiatry*, **66**(1), e61, 1–6 https://doi.org/10.1192/j.eurpsy.2023.2426

Autism with co-occurring epilepsy care pathway in Europe

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Step 3: To propose policy recommendations on how to improve European care pathway.

Me European Psychiatry

Autism care pathway in Europe

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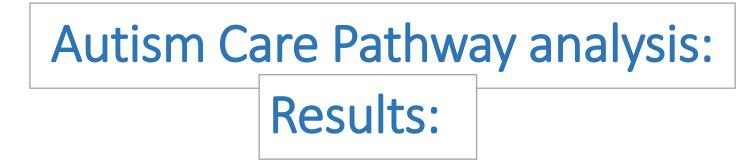
Research Article

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- 1. The care pathway of autistic children and the care pathway of autistic children with associated epilepsy was analysed from a carer, autistic community and professional perspective.
- 2. Members of the working group (WG) met in Brussels and remotely (due to the COVID-19 pandemic) between 2019 and 2021.
- 3. We conducted a survey aimed at carers of autistic children ages 0 to 18 living in Italy, Spain and the U.K. Survey was developed based on the one conducted by the Autism Spectrum Disorder in the European Union (ASDEU) network (Bejarano-Martin et al 2019) with a focus on WG defined critical points: delays in screening and diagnosis, personalised support and comorbidity epilepsy. Survey was approved by local ethics committees in each country.



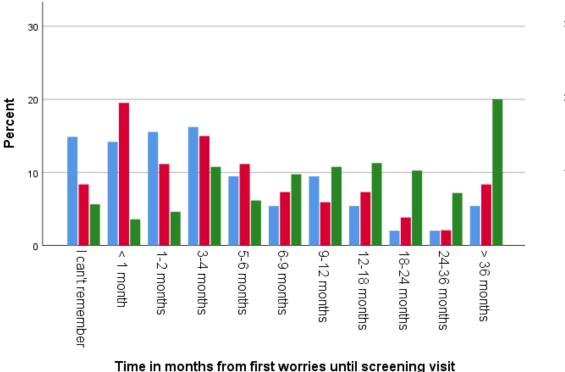
N total: 712 (48 excluded, did not meet inclusion criteria: <18 years old and resident in the three countries investigated)

For a N corrected total of 663 (547 completed data, 116 incomplete)

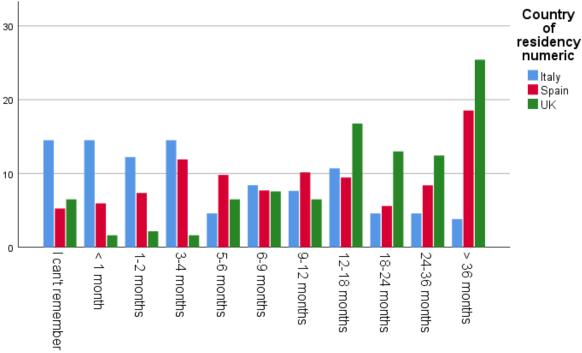
Sample characteristics				
Age of respondents in years, mean (SD)	44 (8.08)			
Sex of person completing survey (%male, % female)	16 %, 84 %			
Autistic child's age at time of survey, mean (SD)	10 (4.39)			
Sex of autistic child (%male, %female)	77 %, 23 %			

Autistic child's gender per country of residency					
Country	Male	Females	TOTAL		
Italy	129	29	158		
Spain	222	65	287		
UK	158	60	218		
Total sample	509	154	663		

Delayed autism screening/diagnosis:



49% of carers in the UK, 22% in Spain and 15% in Italy stated it took them **over a year** after first worries were raised to be offered a screening visit.

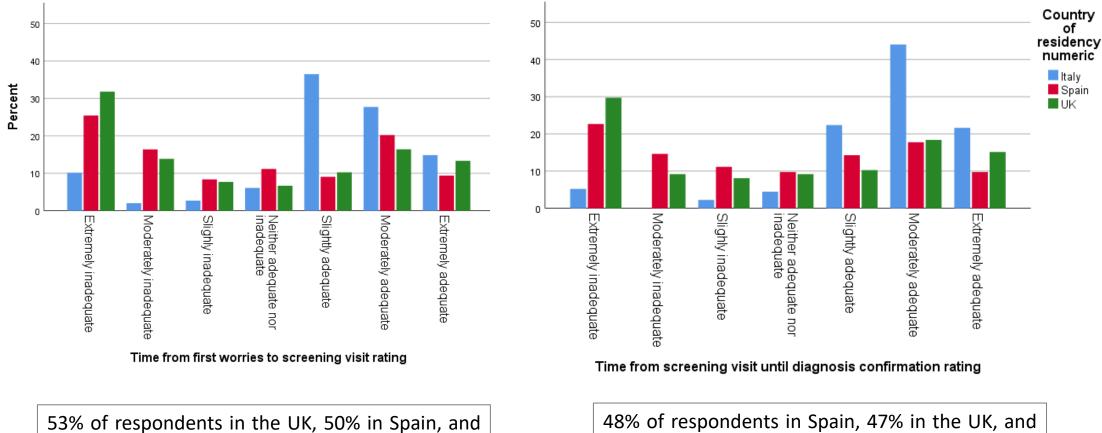


Time in months from screening visit until confirmed diagnosis

68% of carers in the UK, 42% in Spain and 24% in Italy) reported it took them **over a year** after screening visit to have a diagnosis assessment.

UK NICE guidelines (2021) state that if screening visit indicates autism a diagnostic assessment should start within 3 months.

Overall dissatisfaction with waiting times:

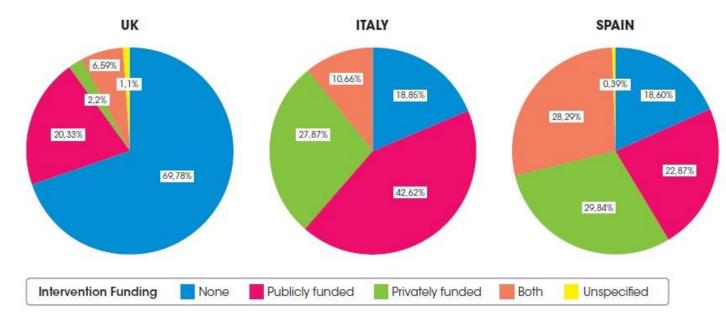


15% in Italy rated the waiting time from first worries until screening visit as inadequate.

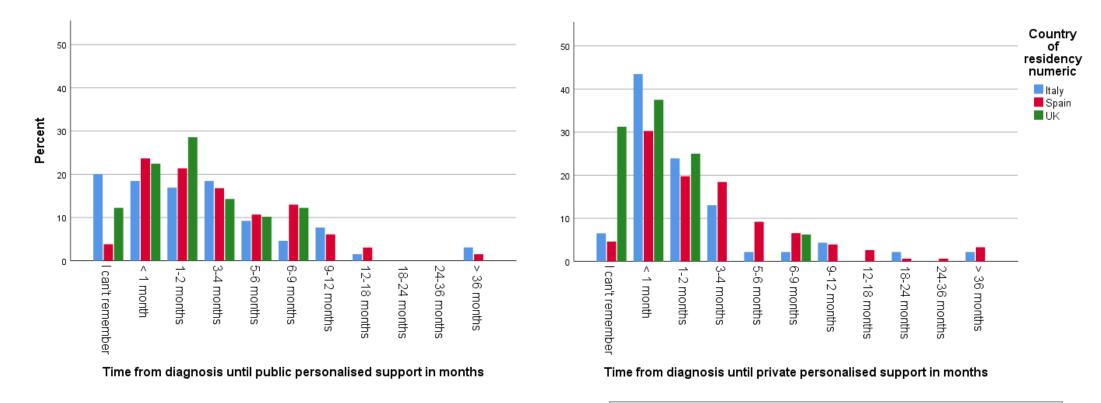
8% in Italy rated the waiting time from screening visit until diagnosis as inadequate.

No access to personalised support once diagnosis has been confirmed:

Only 30% of respondents in the UK stated that the autistic children received any personalised support after diagnosis, compared to 80% in Italy and 82% in Spain. However, a good proportion of these relied on private funding or a combination of both private and public funding.



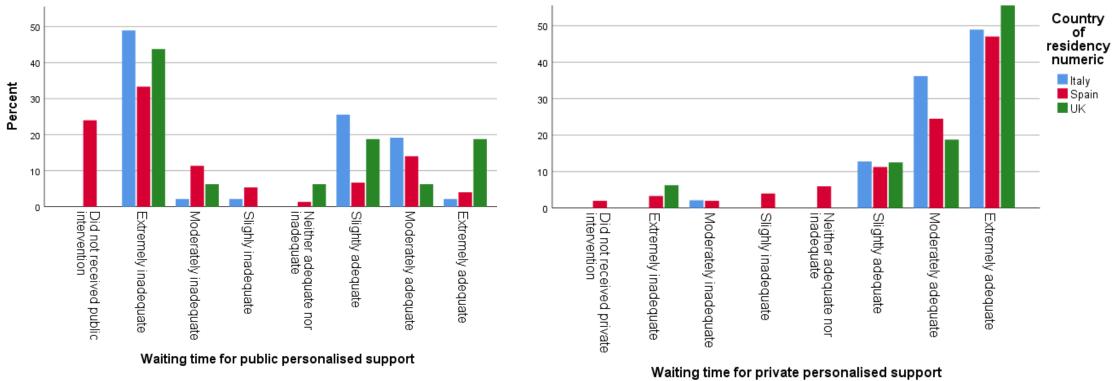
Delay access to personalised support once diagnosis has been confirmed:



Only 24% of respondents in Spain, 22% in the UK, and 19% in Italy said the time from a confirmed diagnosis until publicly funded personalised support started was less than one month.

While 44% of respondents in Italy, 38% in the UK, and 30% in Spain stated that it took them less than one month to start a privately funded personalised support.

Overall dissatisfaction with waiting times for publicly funded personalised support:



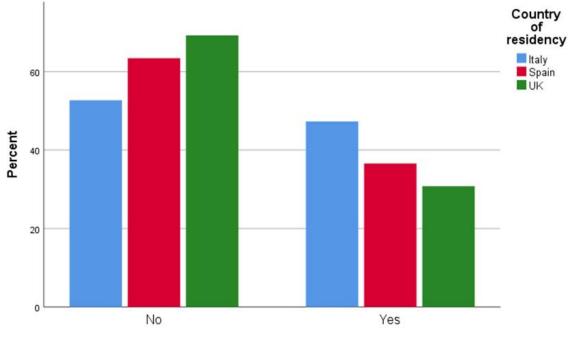
58% of respondents in the UK, 47% in Spain, and 34% in Italy rated the waiting time from diagnosis until publicly funded support started as inadequate.

87% of respondents in Italy, 71% in Spain, and 25% in the UK rated the waiting time from diagnosis until privately funded support started as adequate.

Limited information about autism and how to access early detection services:

62% of carers reported that it was not easy to access information about early detection services.

Was it easy to access information about early detection services?						
			Italy	Spain	UK	
	No	% within Country of residency numeric	52.7%	63.4%	69.2%	
	Yes	% within Country of residency numeric	47.3%	36.6%	30.8%	
	% w Cou resid TOTAL num		100.0%	100.0%	100.0%	



Was it easy to access information about early detection services?

Overall lack of support to parents/carers of autistic children:

- 41% of carers (46% in Italy, 44% in the UK, and 36% in Spain) reported receiving no guidance or support after raising their first worries to their assigned professional.

- 31% of carers (42% in the UK, 28% in Spain and 22% in Italy) said they received very little or no support after the diagnosis was confirmed.

- 58% of carers (69% in Italy, 56% in the UK and 55% in Spain) said they had not received any training, coaching, or counselling to help them cope with their children's difficulties.

Parents of autistic children report high levels of stress (Schieve et al, 2007; Kiami and Goodgold, 2017; Estes et al, 2009; Dabrowska, 2010; Giovagnoli et al, 2015; Miranda et al, 2019)



EBC RESEARCH PROJECT - THE VALUE OF TREATMENT FOR BRAIN DISORDERS IN EURC

Quotations from survey respondents (parents or carers):

"No one from health services mentioned a possibility of autism until my child was 11 years old"

"Health professionals are not trained in autism"

"There are not enough diagnostic clinics/services"

"Never received any early intervention programme"

"Early intervention is crucial"

"I was given minimal information after diagnosis"

In conclusion:

• The identified gaps in the care pathway may be caused by **insufficient availability of publicly funded autism specialist clinics** and autism trained specialists (Crane et al, 2018; National Autistic Society, 2019; Lord et al; 2021).

 Our results highlight the fact that publicly funded diagnostic and therapeutic services are unable to accommodate the number of autistic children in need of these services nor the needs of a growing autistic population. This results in long waiting lists or the necessity to rely on privately funded services.

In conclusion:

• Despite autism's known societal and personal impact, Europe-wide consensus and support for early detection, diagnosis, and intervention are lacking.

 These findings call for policy harmonisation in Europe to shorten long wait times for diagnosis and personalised support and therefore, improve autistic people and their families' journey experience and quality of life.

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TO ALL THE CARERS

Who completed the survey



University of Cambridge team:

Molly McCabe and Rosie Holt.

MEMBERS OF THE WG:

Andreina Méndez Vinciane Quoidbach **Roberto Canitano Bethany Oakley Declan Murphy Antonia San Jose-Caceres** Mara Parellada James Cusack Martin Knapp Michela Tinelli **Ricardo Canal Aurelie Baranger** Sue Bailey Lydia Lanman Veronique Crutel Maud Beillat Anne-Claire Julienne Leo Finn Antonio Persico **Roland Pochet** Aine Roddy Jose Luis Trejo Snyros Zorhas



Academic Psychiatry

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Care Pathways for People with Major Depressive Disorders

Disclosures

Employed by King's College London; Honorary Consultant Maudsley and Bethlem Hospitals (NHS); Head of Mood Disorders Service, National Affective Disorders Service, Maudsley Hospital;

Paid lectures and advisory boards for all major pharmaceutical companies with drugs used in affective and related disorders;

No direct share holdings in pharmaceutical companies or related companies;

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Formerly Chair of Special Committee for Psychopharmacology RCPsych; past-President of International Society for Affective Disorders and past-President of British Association for Psychopharmacology.

Global DALYs by mental disorder in 2019

- Proportion of mental disorder DALYs:
 - Depressive disorders 37.3%
 - Anxiety disorders 22.9%
 - Schizophrenia 12.2%
- Burden due to mental disorders present across all age groups, although relative contribution by disorder varied by age
- For both sexes, DALYs:
 - Increased steadily during childhood/adolescence
 - Peaked between 25-34
 - Decreased steadily after 35

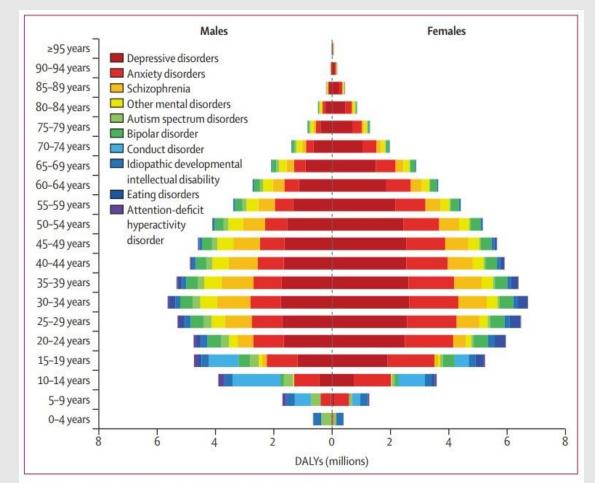


Figure 1: Global DALYs by mental disorder, sex, and age, 2019 DALYs=disability-adjusted life-years.

GBD 2019 Mental Disorders Collaborators, Lancet Psychiatry, 2022

News Society Mental health in Britain

Series: Mental health in Britain

Two-thirds of Britons with depression get no treatment

If these figures related to cancer patients the nation would be in uproar, says new president of Royal College of Psychiatrists

Sarah Boseley, health editor The Guardian, Wednesday 13 August 2014 13.12 BST

Jump to comments (881)



The gap between treatment for mental health problems and physical illnesses is so huge that it may prove impossible to bridge, says Professor Simon Wessely. Photograph: Denis Closon/Rex

Less than a third of people with common mental health problems get any treatment at all – a situation the nation would not tolerate if they had cancer, according to the incoming president of the Royal College of

Undertreatment of people with major depressive disorder in 21 countries*

Graham Thornicroft, Somnath Chatterji, Sara Evans-Lacko, Michael Gruber, Nancy Sampson, Sergio Aguilar-Gaxiola, Ali Al-Hamzawi, Jordi Alonso, Laura Andrade, Guilherme Borges, Ronny Bruffaerts, Brendan Bunting, Jose Miguel Caldas de Almeida, Silvia Florescu, Giovanni de Girolamo, Oye Gureje, Josep Maria Haro, Yanling He, Hristo Hinkov, Elie Karam, Norito Kawakami, Sing Lee, Fernando Navarro-Mateu, Marina Piazza, Jose Posada-Villa, Yolanda Torres de Galvis and Ronald C. Kessler

Background

Major depressive disorder (MDD) is a leading cause of disability worldwide.

Aims

To examine the: (a) 12-month prevalence of DSM-IV MDD; (b) proportion aware that they have a problem needing treatment and who want care; (c) proportion of the latter receiving treatment; and (d) proportion of such treatment meeting minimal standards.

Method

Representative community household surveys from 21 countries as part of the World Health Organization World Mental Health Surveys.

Results

Of 51547 respondents, 4.6% met 12-month criteria for DSM-IV MDD and of these 56.7% reported needing treatment. Among those who recognised their need for treatment, most (71.1%) made at least one visit to a service provider. Among those who received treatment, only 41.0% received treatment that met minimal standards. This resulted in only 16.5% of all individuals with 12-month MDD receiving minimally adequate treatment.

Conclusions

Only a minority of participants with MDD received minimally adequate treatment: 1 in 5 people in high-income and 1 in 27 in low-/lower-middle-income countries. Scaling up care for MDD requires fundamental transformations in community education and outreach, supply of treatment and quality of

services.

Declaration of interest

In the past 3 years, R.C.K. received support for his epidemiological studies from Sanofi Aventis, was a consultant for Johnson & Johnson Wellness and Prevention and served on an advisory board for the Johnson & Johnson Services Inc. Lake Nona Life Project. R.C.K. is a co-owner of DataStat Inc., a market research firm that carries out healthcare research.

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The challenge of MDD

Despite being a **leading cause of disability**¹, only a minority of patients receive **minimally adequate treatment**²



in low-/lower-middle-income countries²

1 in 27

Barriers to treatment include:²

- Scarce mental health services
- Lack of awareness of MDD as treatable
- Stigma and social exclusion

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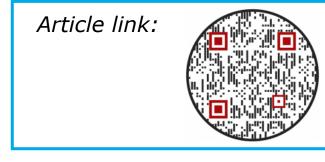
Research Article

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Keywords:

Care pathways; diagnosis; major depressive



Care pathways for people with major depressive disorder: A European Brain Council Value of Treatment study

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52% detected		48% undetected		
62% treated				38% untreated
~33% good fol	llow-up	~33% some fo	llow-un	~33% no follow-up
	nom op		non ap	
4.004	04.04			
19% access	81% no ac	cess to seconda	ary care	

Figure 3. Summary graphic integrating treatment gap estimates. For treatment gaps 1, 3, 4, and 5, this graphic summarizes the estimated proportion of individuals with each outcome. The top row represents all individuals with a major depressive episode, the second represents those with a diagnosis, and the third/fourth of those treated for depression.

MDD treatment gaps

Current care pathways (split by treatment gap) averaged across data sources and countries.

- 1: Rate of depression detection: ~ 50% episodes
- 2: Delays to detection or treatment of depression: ~ 1-5 years
- 3: Rates of treatment: ~ 25-50% of patients. Low rates particularly of psychological therapy
- 4: Follow-up after treatment initiation: ~ 30-65% of patients seen < 3 months
- 5: Access to secondary (psychiatric) services: ~ 5-25% of patients
- 6: Access to specialist mood disorders services: Limited/no data

"Primary care should have also employed psychologist, social workers and links with psychosocial rehabilitation units and institutions supporting employment seekers" [Psychiatrist, Sweden]

"We're 10,000 GPs short in England... We need as much help as we can get to deliver a caring, effective service." [GP, UK]

"I feel that physicians MUST be able to allocate the time that is really needed for a thorough evaluation of the patient and careful integrated therapy plan (pharmacological + psychological) prescription" [Person with lived experience, Italy]

"Increases in access to secondary care for those who are suffering from depression is very important - rejection to access these services can really be damaging to the patient" [Person with lived experience, UK]

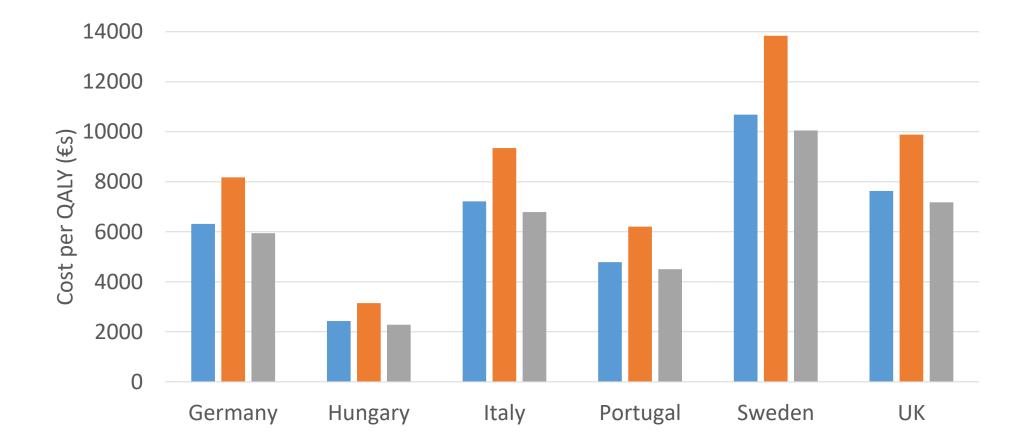
Economic impact of reducing treatment gaps in depression

- Use of decision model to assess economic impact of treatment gaps
- Expected costs and outcomes from reducing gaps were estimated
- Costs and outcomes obtained from published literature and official sources

Expected costs for baseline model by country (2020 €s)

	Germany	Hungary	Italy	Portugal	Sweden	UK
Expected costs	1236	476	1413	938	2093	1495
Sensitivity analysis 1	1097	422	1254	832	1857	1327
Sensitivity analysis 2	1376	529	1572	1043	2328	1663

Incremental cost per QALY of reducing detection and treatment gaps



■ Detection gap = 50% ■ Treatment gap = 25% ■ Detection gap = 50% and treatment gap = 25%

Recommendations

Consensus reached on 28 recommendations to optimise care pathways:

- **1. Enhance detection (pathway entry):** improved information provision, increased service availability, integrate self-management e-mental health tools with healthcare practice.
- 2. Improve treatment provision: The right treatment to each patient (e.g. decision-support tools, information provision, encourage patient preference), prescribing support tools (integrate electronic health records & facilitate shared-care provision between types of staff), increased provision of various psychological therapies, help for patients time off from work/education.
- **3. Continuity of follow-up after treatment:** Optimise self-management tools & feedback to clinicians, automatic appointment scheduling & reminders, increased service provision, standardised assessment of symptoms and side effects, screen for risk factors to indicate extent of follow-up needed.
- 4. Access to specialist care: Enhance training for clinicians to obtain specialism, clear & more lenient criteria for accepting psychiatric referrals, increased resources to services, integrating specialists into primary care, systems for transition in/out of specialist services applies to both secondary and tertiary care.





Thank you

Contact details:

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Economic modelling of the Value of Early Intervention and Continuity of Care for Anorexia Nervosa in England, Germany and Spain: improving the care pathway.

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32nd European Congress of Psychiatry

Budapest, April 7, 2024

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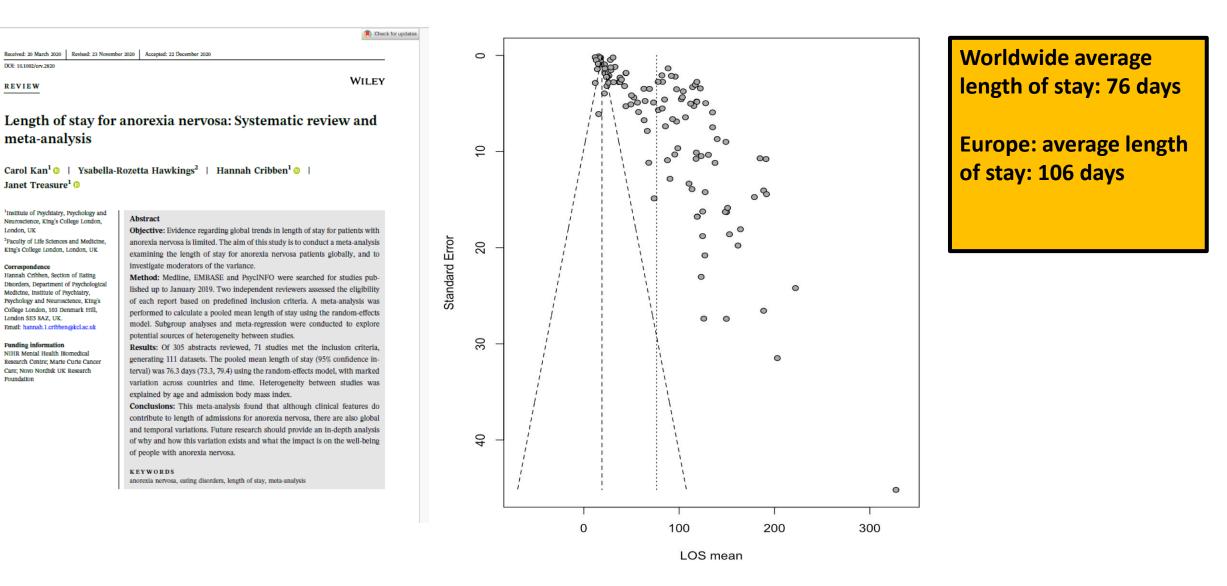
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Funding: The study was organised by the European Brain Council (EBC) and financially supported by the European Psychiatric Association (EPA)

Background

- Anorexia nervosa has typical onset in adolescence/early adulthood. Profound physical as well as mental health consequences. Over one-third of people develop a severe and enduring illness (SE-AN)
- Lifetime prevalence: 2-4% among women and 0.3% among men (Van Eeden et al 2021).
- 153,058 Disability Adjusted Life Years (DALYs) in WHO European Region in 2019, 78% for women. (IHME 2021). 117,946 (77%) of DALYs are for people aged over 20.
- Reviews, mainly of European studies, indicate average duration of untreated anorexia nervosa between 15 months and 2 with long periods of time between disorder onset, diagnosis, assessment and commencement of treatment.
- Interventions, including outpatient psychotherapy, can lead to improved outcomes
- Substantial inpatient resource use for severe anorexia nervosa



Euro Eating Disorders Rev, Volume: 29, Issue: 3, Pages: 371-392, First published: 06 February 2021, DOI: (10.1002/erv.2820)

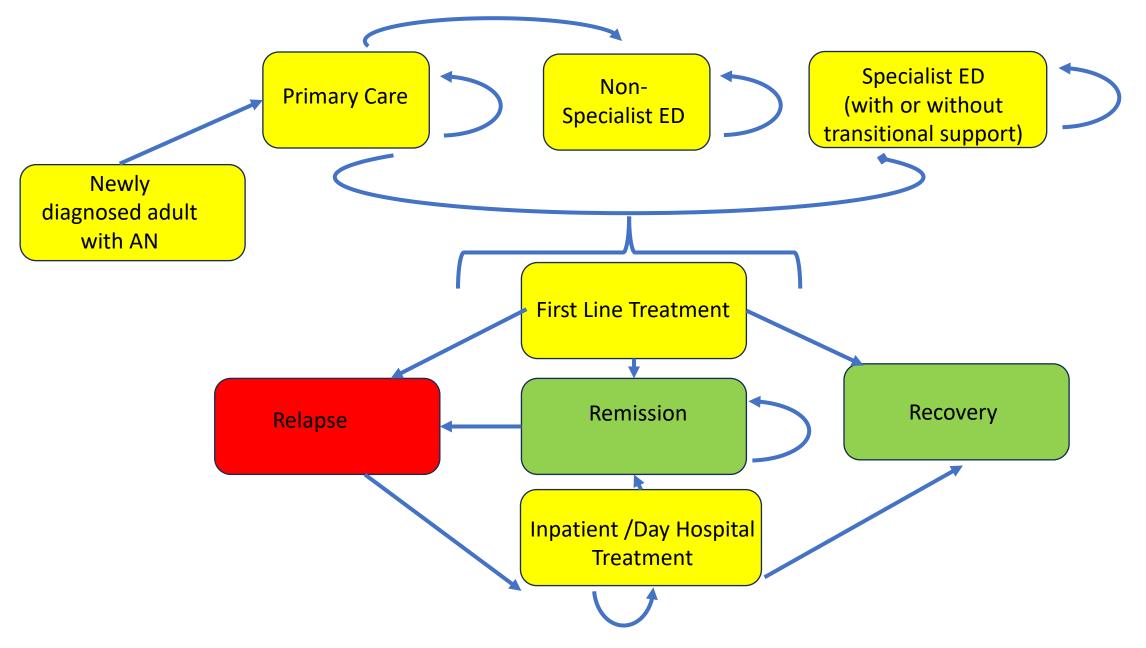
Aims and approach

- Assess the potential economic benefits of earlier and /or increased access to enhanced care for adults newly diagnosed with anorexia nervosa
- Case examined in England, Germany and Spain
- 5 different care pathway scenarios compared
- Markov model constructed; hypothetical adult with AN followed along these care pathway scenarios over 312 weeks (6 years).
- Disability Adjusted Life Years Averted and impacts on health service costs estimated. Net Monetary Benefits for each scenario then calculated

Five Scenarios Compared

Scenario 1	Current care pathways with existing data on wait times, hospitalisation, rehospitalisation, and length of inpatient stay
Scenario 2	Halving wait times from diagnosis of AN in primary care settings to referral to outpatient care. No change in referral patterns
Scenario 3	No change to wait times from referral, but everyone referred to specialist eating disorder outpatient care
Scenario 4	No change to wait times or referral patterns. Transitional support, (carer support) for all receiving specialist ED outpatient care
Scenario 5	Combination of reduced wait times, all referred to specialist ED outpatient care with transitional support

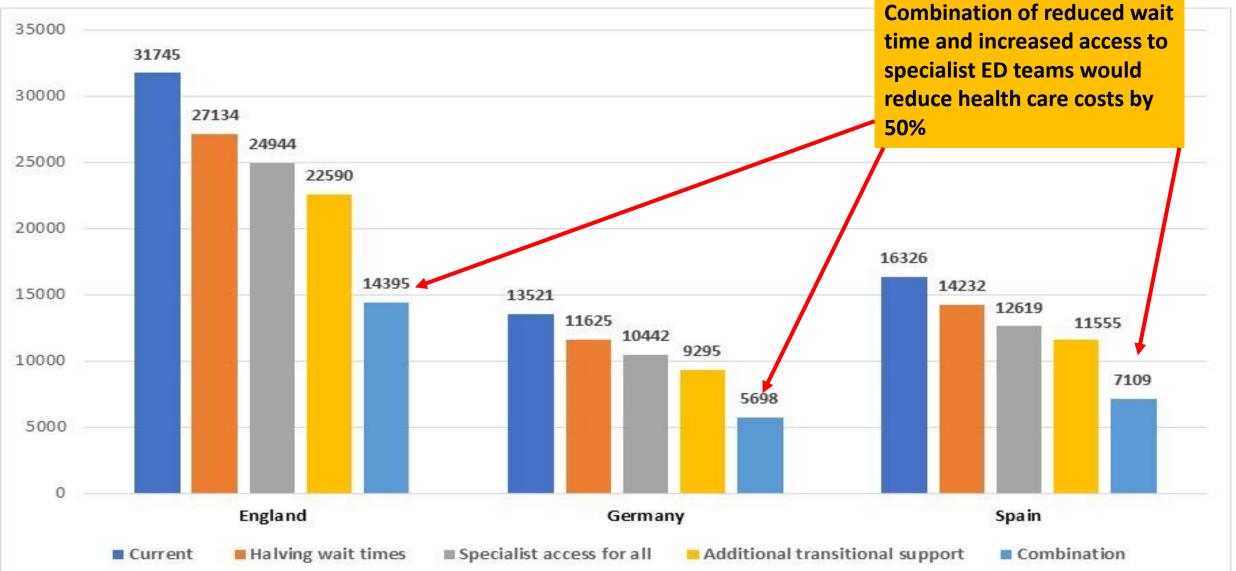
Model structure

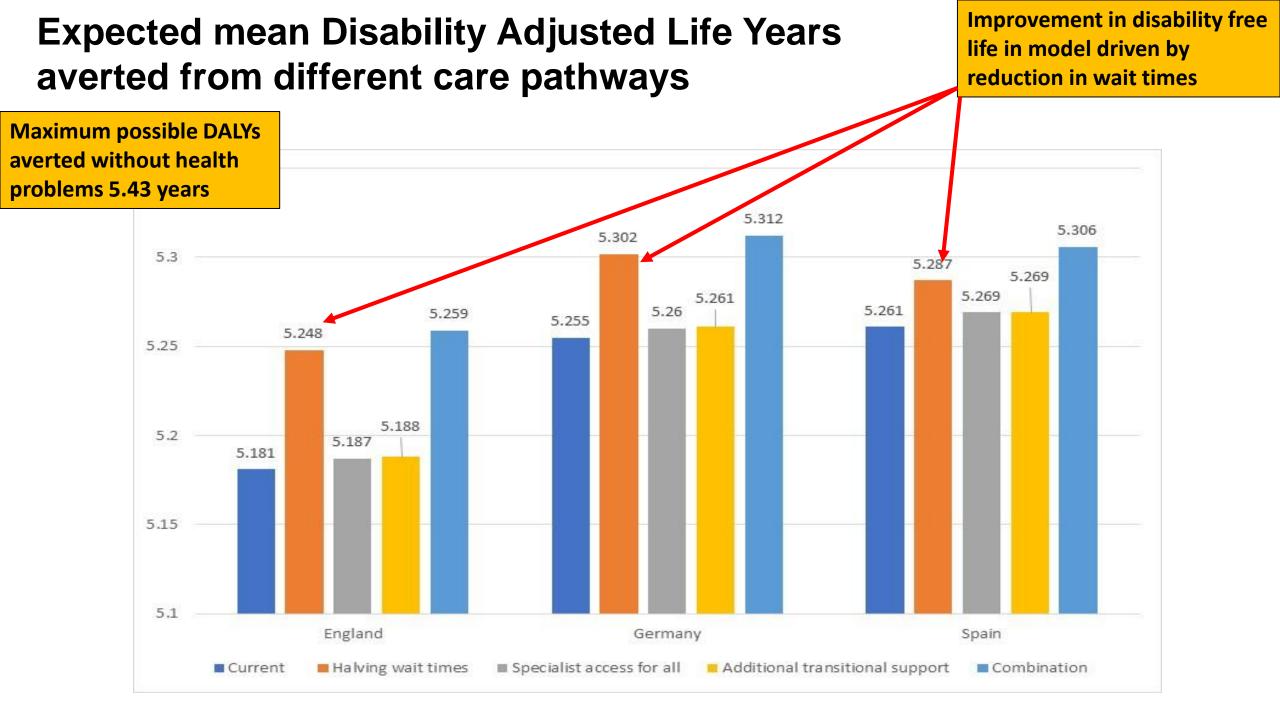


Overview of results

Expected six-year cumulative costs of different AN care pathways

2020 PPP Euros





England: model results

	Current	Halving wait times	Specialist access for all	Additional transitional support	Combination
Primary Care Management	1315	672	1315	1315	672
Non-Specialist Outpatient Care	1217	1229	0	1217	0
Specialist Outpatient Care	3972	4013	5675	3972	5732
Inpatient Care	25240	21220	17953	16085	7991
Total Cost (€'s 2020)	31744	27134	24943	22589	14395
DALYs averted	5.181	5.248	5.187	5.188	5.259
Incremental DALYs averted		0.067	0.006	0.007	0.078

Net Monetary Benefits (2020 PPP adjusted Euros)

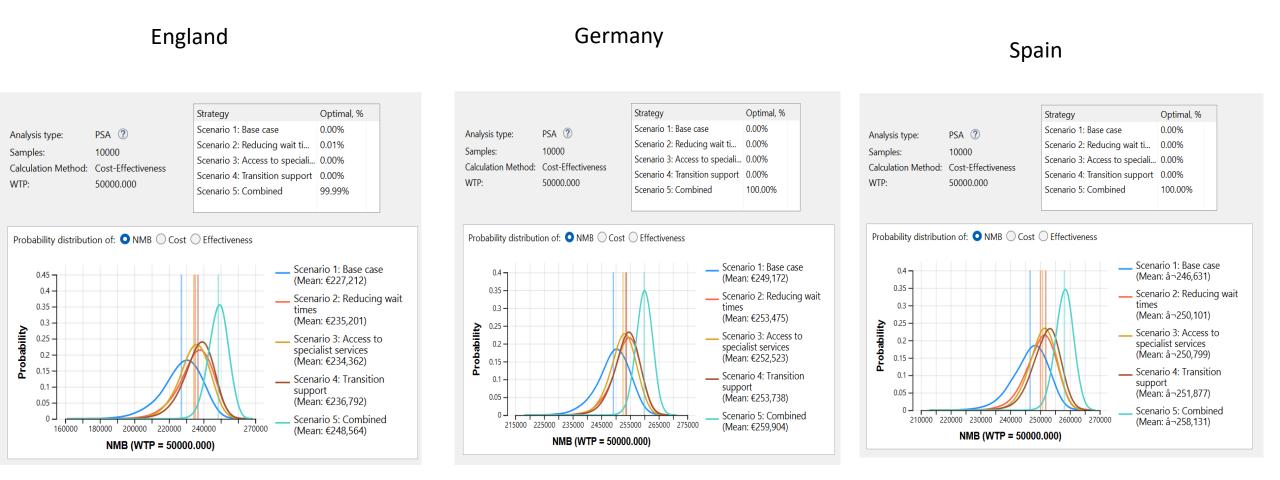
	England	NMB gained	% gain	Germany	NMB gained	% gain	Spain	NMB gained	% gain
Combined	248,575	21,316	9.38%	259,909	10,722	4.30%	258,167	11,491	4.66%
Transitional support	236,824	9,565	4.21%	253,748	4,561	1.83%	251,920	5,244	2.13%
Referral to specialist ED	234,387	7,128	3.14%	252,533	3,346	1.34%	250,838	4,162	1.69%
Halving wait times	235,243	7,984	3.51%	253,489	4,302	1.73%	250,142	3,466	1.41%
Usual care	227,259	0	0.00%	249,187	0	0.00%	246,676	0	0.00%

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Sensitivity analysis

• Ranking of scenarios robust in series of one-way and probabilistic sensitivity analyses



Result summary

- Greatest improvements in quality of life from reduced wait times; greatest cost averted from specialist outpatient care with transitional support.
- Combined strategy has best health outcomes and lowest costs over a 6 year time window
- Reduced risk of hospitalisation and re-hospitalisation
- Investing in strategies that reduce time to any outpatient mental health and/or specialist eating disorder services associated with greater likelihood of recovery and reduced costs compared to care as usual.

Limitations

- Not all care pathways considered, e.g. models of enhanced primary care management, immediate hospitalisation not considered
- Additional referral routes to care (e.g. via contact with other outpatient services
- Need to explore whether different care pathways may be more effective for some different individual groups; Need to explore care pathways for adolescents
- Economic analysis conservative: not included impacts on time out of usual role, e.g. education or employment, impacts on families
- Only one DALY weight for AN but impacts will vary by severity level
- Look at even longer term impacts if data available

Policy implications

- Policy and practice guidelines should put an emphasis on enhanced care pathway measures to reduce wait times and enhance access to specialist care.
- Mechanisms to reduce wait times post diagnosis for referral to outpatient care, e.g. use of wait time targets, financial support/ reimbursement incentives, improved
 co-ordination; awareness raising measures in primary care and more generally
- Different **budgetary impacts and costs** associated with these strategies
- Scaling up of skills in ED within psychiatrists and psychology;
- Scaling up capacity to deliver psychological therapies within primary care and nonspecialist outpatient services; more use of digital interventions
- Importance of **investment in transitional support**, including more focus on support for families



Assessing the value of mental health treatments in Europe

Judit Simon

Professor of Health Economics, Medical University of Vienna Visiting Professor, University of Oxford & Corvinus University Budapest



Univ. Prof. Dr. Judit Simon Center for Public Health, Department of Health Economics

Disclosures

- Academic advisor to the EBC's VoT2 project
- PREDICT study received funding from the H2020 programme of the EC
- OXTEXT programme received funding from the UK NIHR
- 'Physical comorbidity costs of MHDs' project has received funding from the ECNP
- PECUNIA has received funding from the H2020 programme of the EC
- STREAMLINE has received funding from the Viennese WWTF
- Judit Simon is co-developer and guardian of the OxCAP-MH instrument



Value of mental health care

(Simon et al. Eur Psych 2023)



- MHDs are prevalent, enduring, disabling
- 1 in 8 persons worldwide lives with MHDs
- ¾ of all MHDs develop before the age of 25
- Socioeconomic burden is >4% of GDP across the EU-28 (>EUR 600 billion)
- Health and social care costs < broader societal costs



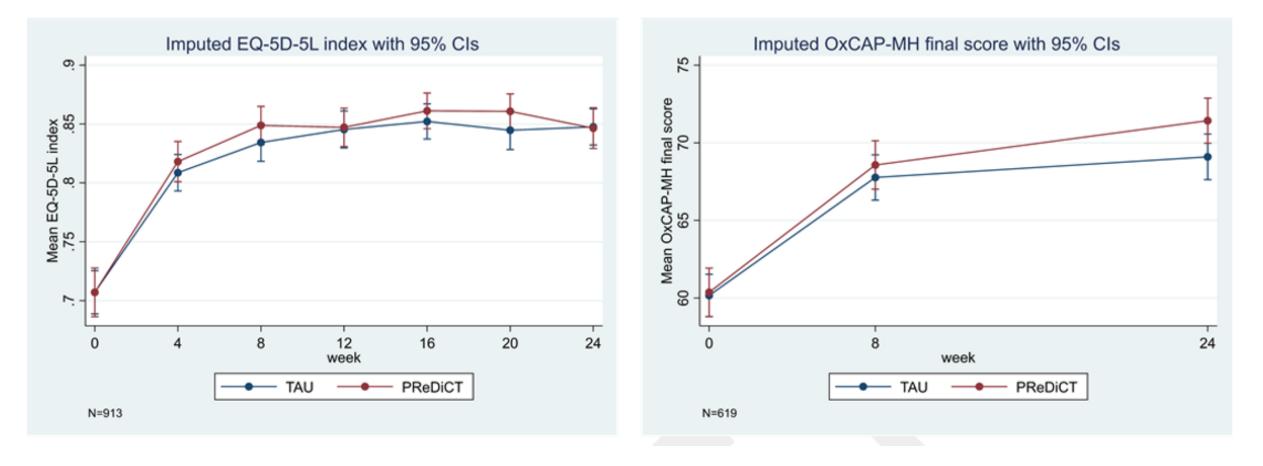
Issues with current value assessments

- Impact on QoL including informal carers/families -> importance of broad outcome assessment
- Spill-over effects to other sectors (e.g. education, employment, justice) ->
 importance of broad cost assessment
- 3. Close link between mental and physical health problems -> importance of comorbidity impact assessment
- Multi-national evaluations with unknown magnitude of heterogeneity ->
 importance of standardised and comparable estimates (cost, outcome and
 cost-effectiveness)
- 5. Limited implementation due to system and funding fragmentation -> importance of link to health services mapping



Outcome assessment

(Browning et al. 2021, Neuropsychopharm. | PREDICT study EE, forthcoming)

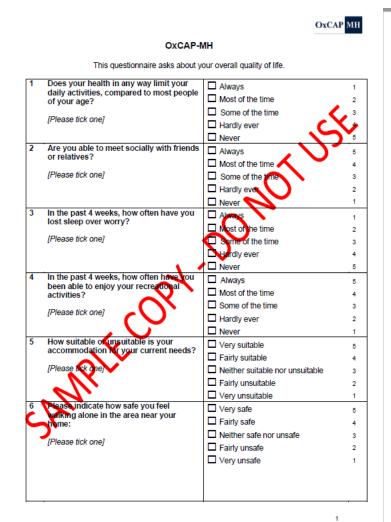


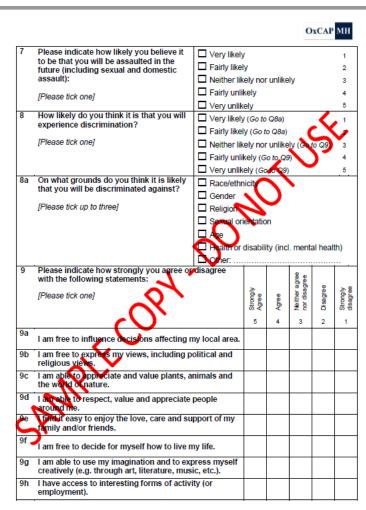
© DHE/MUW



Univ. Prof. Dr. Judit Simon Department of Health Economics

OxCAP-MH: Capability well-being assessment for MH



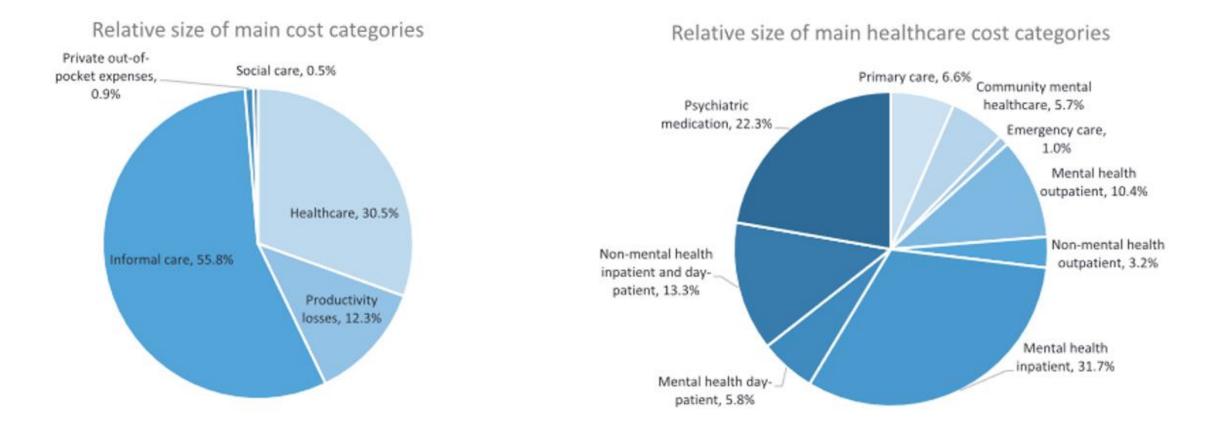


Simon et al. (2013) Soc Sci Med Vergunst et al. (2017) HQoLO Simon et al. (2018) BMC Psych Helter et al. (2022) BJPsych Open

https://public-health.meduniwien.ac.at/unsere-abteilungen/abteilung-fuer-gesundheitsoekonomie/forschung/downloads/oxcap-mh/



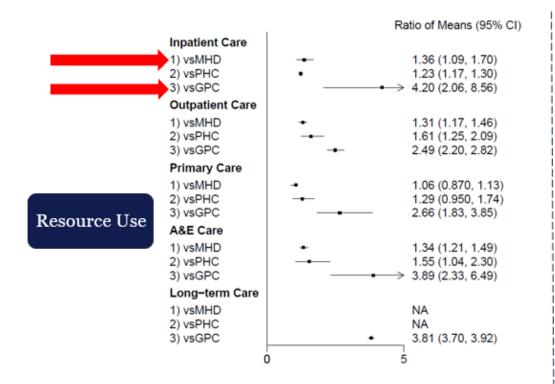
Costs assessment: Bipolar disorders (UK) (Simon et al. 2021, Brain and Behaviour)



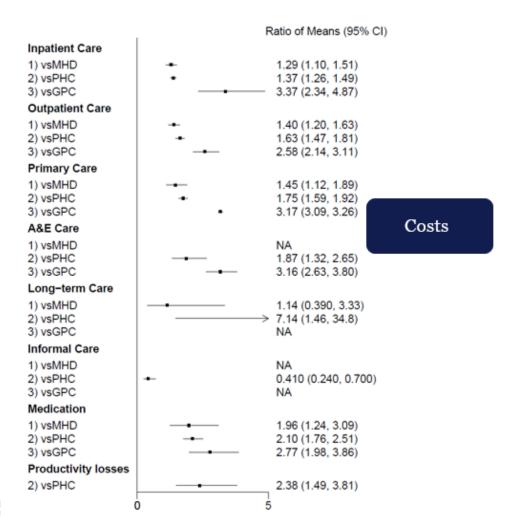


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Excess cost of physical co-morbidities (Simon et al. 2023, Eur Neuropsychopharm.)

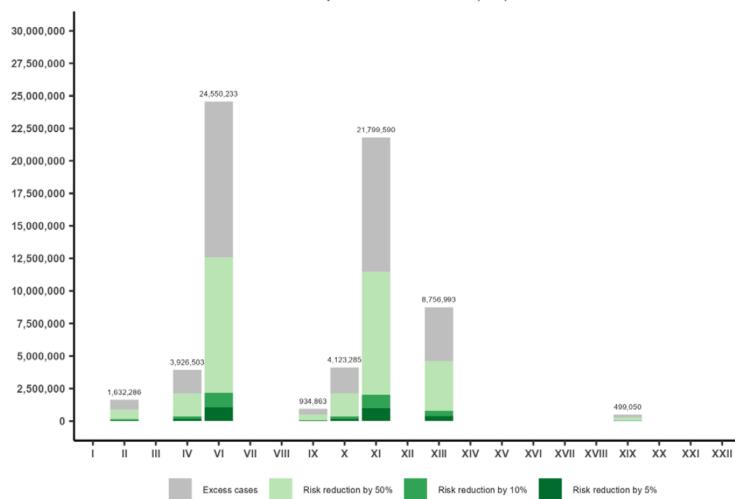


vsMHD: Individuals with given mental health disorder only vsPHC: Individuals with given physical health condition(s) only vsGPC: Matched general population controls





Comorbid physical health burden in Europe (Wienand et al. 2024, BMJ Mental Health)



Depressive disorders (DD)



Univ. Prof. Dr. Judit Simon Department of Health Economics

Incomparable costs: Day care centre (Browning et al. 2021, Neuropsychopharm. | PREDICT EE, forthcoming)

Country	UK	DE	NL	ES
Name of item	Day care centre	Tageszentrum	Dagopvang	Centro de dia
Unit cost	£37	€8	€276, €67, €302, €460	n/a
Definition	PSSRU	n/a	n/a	n/a
Unit of measurement	per client attendance	per hour per therapy place	per day	n/a
Year	2018	2014	2014	n/a
lssue	-	Translation problem → Tagesstätte vs. Tageszentrum	none seems to match with UK/DE form as setting differs, translation problem	Expert advise needed

© DHE/MUW





H2020 PECUNIA Project (2018-2021)

Multi-sectoral, multi-person, multi-country approach

• Aims:

- To improve the comparability and feasibility of health economic assessments
- 2. To harmonize costing and outcome methods
- To develop new tools to support future harmonized methods

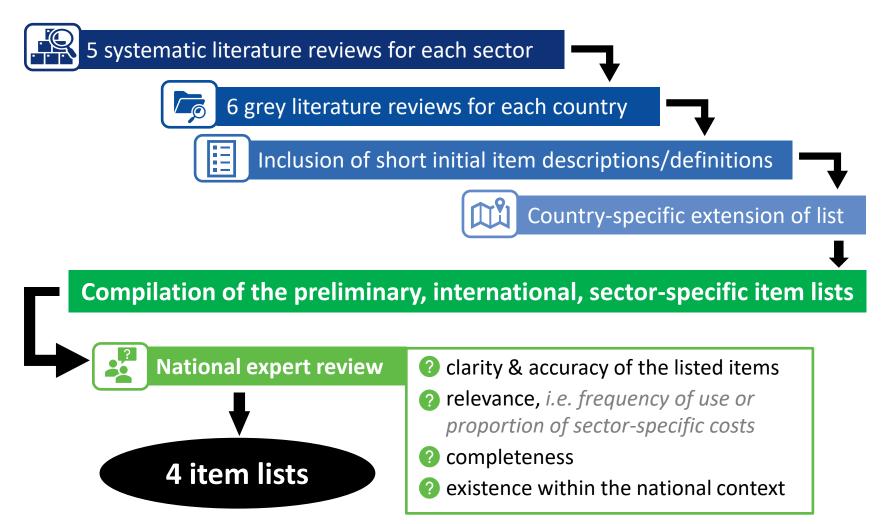






Identification of services

(Fischer et al. 2022, PLOS ONE)





52



Disambiguation of services

(Gutierrez-Colosia et al. 2022, EpiPsychSci)

Items (N)		were obtained from syst alth sector and 22 from t		y literature
	Accurate	Confusing	Ambiguous	Vague
Level 1. Unit of analysis	50 items (89%)	6 items (11%) e.g 'legal carer', 'outpatient health care contact'		
Level 2. Target population	29 items (52%)	3 items (5%) e.g homeless people/women and mental disorders	4 items (7%) e.g 'Child development centre for children and families'	20 items (36%) e.g 'rehabilitation facility for illness, injury or addiction'
Level 3. Definition	23 items (41%)	6 items (11%) e.g 'Outpatient health care at workplace, e.g. company physician, nurse	12 items (21%) e.g 'Polyclinic	13 items (23%) e.g rehabilitation facility
Total L1, L2, L3	13 items (23%)	-	2 items	5 items



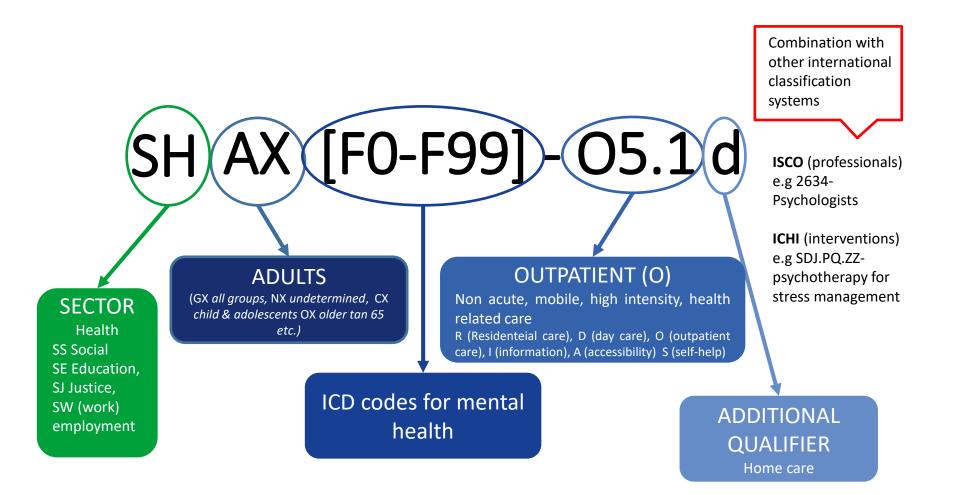
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Definition of services: DESDE coding system

(Castelpietra et al. 2020, BJPsych)







Measurement of costs: PECUNIA RUM

(Pokhilenko et al. 2023, Appl Health Econ Health Policy)

• Multi-sectoral:

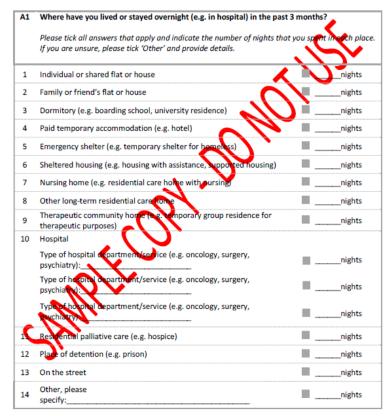
- Place of living and overnight stays (Sec A)
- Non-residential health and social care (Sec B)
- Medication (Sec C)
- Unpaid help (informal care) (Sec D)
- Education (Sec E)
- Employment and productivity (Sec F)
- Safety and justice system (Sec G)
- Out-of-pocket and other expenses (Sec H)
- Final remarks (Sec I)
- Self-reported
- Flexible: modular
- User guide
- Free for non-commercial use



https://www.pecunia-project.eu/tools/rum-instrument

SECTION A: PLACE OF LIVING AND OVERNIGHT STAYS

In this section, we ask you about your usual place of living and any overnight stays you have had in the past 3 months (i.e. in the past 90 nights).





Valuation of costs: PECUNIA RUC Templates

(Mayer et al., under review)

- Standardized and transparent methodology
- Reference Unit Costs (RUCs)
- Automated calculations
- Flexibility: primary and/or secondary input data
- User guide
- Free for non-commercial use



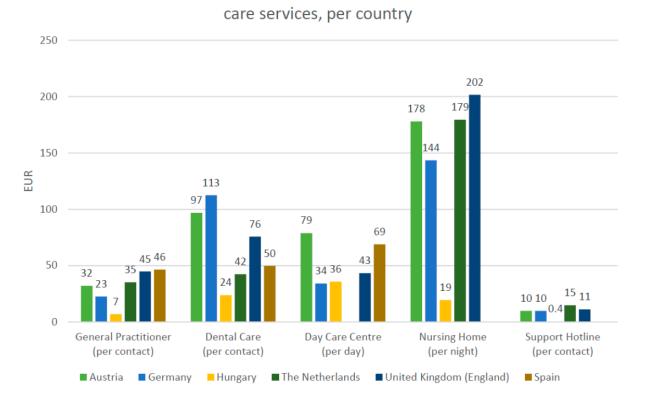




Access to cost information: PECUNIA RUC Compendium

(Mayer et al. 2022, Int J Environ Res Public Health)

- Electronic library
- Harmonized RUCs
- Transparent meta-data
- User guide
- Free for non-commercial use



Reference unit cost estimates for the core set of health and social



https://www.pecunia-project.eu/tools/ruc-compendium



Outcome assessment: PECUNIA PROM-MH Compendium

(Laszewska et al. 2021, BMJ Mental Health)

- 204 instruments for quality of life/well-being measurement in MH
- 47 meta-data categories
- 6 categories of usability in EEs
- Free access

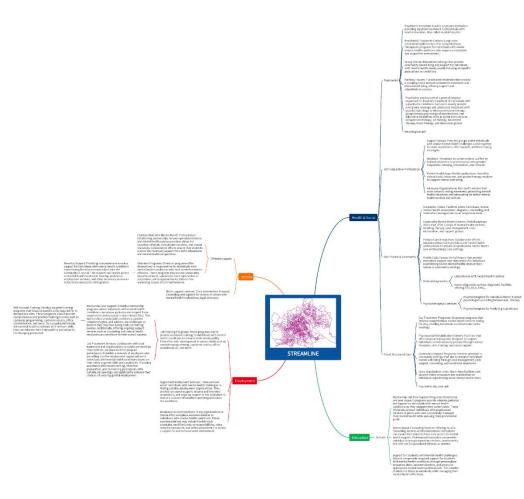
IIA PROM-MH Compendiu	m version 1.07 2020	
	HEALTH	
Department of Health		
	15D	
	15D instrument of health-re	lated quality of life
	A generic, comprehensive (15-dimensional), self-admi quality of life among adults (age 16+ years)	inistered instrument for measuring health-related
Date of mete-date: 3 Apr 2020		
BASIC CHARACTERISTICS Year of first publication	1993	References Sintonen H, Pekurinen M (1993) A filteen-dimensional
		measure of health-related quality of life (15D) and its applications. In: Walker SR, Rosser IVM, eds. Quality of life assessment: Key issues in the 1990s. Dordrecht: Kluwer Academic Publishers (pp. 185-195)
Country of origin (language)	Finland	
Link to sample questionnaire		http://www.15d-
Main category of outcome measurement	OCL/Well-being	Instrument.net/site/assets/files/1002/15d_english.pdf
Sub-category of outcome measurement	HROOL	
Generic/Mental health specific	Generic	
Terget age group No. of items	Adults 15	
No. of items Levels of seswers	15	
Approximate time to complete	5 min	
Domains covered	Mobility, vision, hearing, breathing, skeeping, eating, speech,	
	elimination, usual activities, mental function, discomfort, depression, distress, vitality and sexual activity	
Standard recall period	Day of completion	
Person completing instrument	Self-reported, Proxy-reported, Interviewer-administration	
Modes of administration Belongs to the family of instruments	Paper-based, Computer-based	http://www.15d-instrument.net/15d/
Related instruments	160	
	170	
Other language versions available	Yes	
Other language versions available Approximate no. of known translations	Yes 32	http://www.15d-instrument.net/12/pes/_
	Yes	Arabic, Bulgarlan, Catalan, Chin, e, Czer, Danish, Hoh,
	Yes	Arabic, Bulgarlan, Catalan, Chin Je, Czel, Danish, Hich, English, Estonian, Florinh, Frenc, Gerrin, Greek, A. Hew, Humanian, Kelang, Japan Japan, and Humanian, Mary
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https://www.pecunia-project.eu/tools/prom-mh-compendium

STREAMLINE Project (2023-2025):

- MH services mapping and costing in Vienna for future health services planning and financing
- Tasks:
 - 1. Multi-sectoral (H&SC, Ed, Empl, Just) and multiperson (Ch, Adol, Adult) identification of services
 - 2. Coding of main service types
 - 3. Reference Unit Cost development
 - 4. Development of policy recommendations



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https://public-health.meduniwien.ac.at/unsere-abteilungen/abteilung-fuer-gesundheitsoekonomie/forschung/projekte/laufende-projekte/streamline/



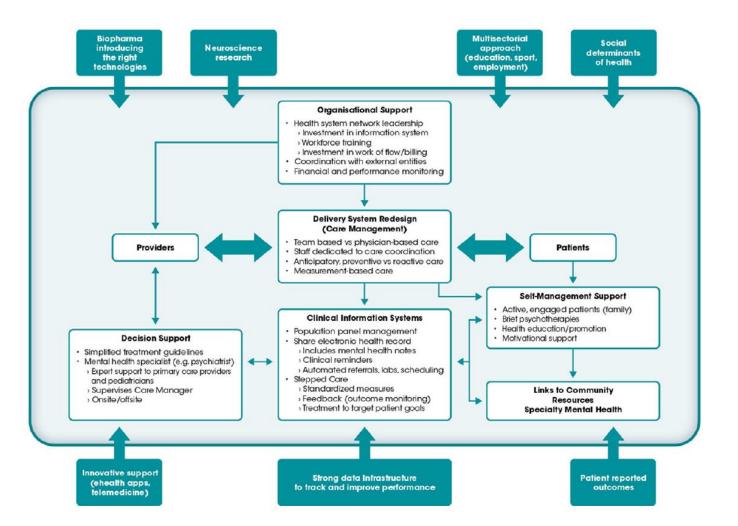
Summary

- New harmonized and compatible value assessment framework, cost and outcome tools now exist (PECUNIA) with ongoing piloting in Vienna (STREAMLINE)
- Main limitations in value assessment remains:
 - Limited data availability
 - Limited promotion, prevention, early intervention and integrated care considerations
 - Limited life course approaches
 - Limited flexibility for emerging trends (e-health, COVID, youth MH)
 - Limited opportunities for implementation (fragmentation)



Policy implications: Enabling ecosystem (Simon et al. Eur Psych 2023)







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Thank you!

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Questions & Answers





More info: https://www.braincouncil.eu/projects/the-value-of-treatment/

