Cost of depression in Europe EBC perspective

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To promote brain research in Europe

and to improve the quality of life of

those affected by brain diseases

The Growing EBC Membership



Ordinary Members (Board members)

- EANS European Association of Neurosurgical Societies
- ECNP European College of Neuropsychopharmacology
- EFNA European Federation of Neurological Associations
- EFNS European Federation of Neurological Societies
- EPA European Psychiatric Association
- FENS Federation of European Neuroscience Societies
- GAMIAN Europe Global Alliance for Mental Illness Advocacy Networks
- 2 Industry representatives

Associate Members (non-voting)

- FEPSCO Federation of European Psychophysiology and Cognitive Neuroscience Societies
- EACIC European Accreditation Committee in CNS
- B4B Brains 4 Brain

Observers to the Board

- EDAB European Dana Alliance for the Brain
- WHO World Health Organisation
- ESN European Societies of Neuropsychology
- EUFAMI European Federation of Associations of Families of People with Mental Illness



The Burden of Brain Diseases in Europe

• Olesen J and Leonardi M. Eur J Neurol 2003, 10:471-7.

Cost of Brain Disorders in Europe

• Andlin-Sobocki P, Jonsson B et al. Eur J Neurol 2005, 12 Suppl 1:1-27

Size and Burden of Mental Disorders in Europe

• Wittchen, H-U et al. Eur. Neuropsychopharmacol 2005, 15(4):355-490.

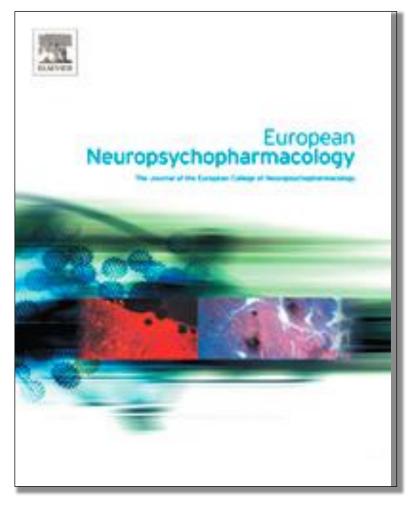
Research Allocation for Brain Research in Europe

• Sobocki P et al. Eur J Neurosci 2006, 24:1-24.

Consensus Document on European Brain Research

 Olesen J, Baker MG et al. J Neurol Neurosurg Psychiatry 2006, 77 Suppl1:i1-49.

Gustavsson A, et al. Cost of disorders of the brain in Europe 2010. *Eur Neuropsychopharmacol 2011*



CBDE II Update





ECNP/EBC* Report 2011:

Cost of Disorders of the Brain in Europe

*European College of Neuropsychopharmacology / European Brain Council

ECNP/EBC Report 2011

[Results]

- **€798 billion** => €1550 per capita
- 60% direct costs (37% direct healthcare costs and 23% direct nonmedical costs); 40% indirect costs associated with patients' production losses
- Over 160 million people affected more than 36% of the total region's population
- 26% of DALY more than from any other group of medical disorders; more than in any other part of the world
- No evidence for any improvement since previous pan-European study conducted in 2005
- The burden of disorder of the brain will likely increase further because of the **aging European population**.

ECNP/EBC Report 2011 Cost of Disorders of the Brain in Europe Focus on:

DEPRESSION

Cost of depression in Europe

- Depression is the single most burdensome disorder of the brain
- The European **prevalence** of major **depression** (age 18+):

6,9%

The European prevalence of bipolar disorder (age 18-65):
0,9%

• The overall cost of mood disorders (depression ICD-10 codes: F32, F33 & bipolar disorder: F30, F31):



Number of persons with mood disorders in **European countries:**

- Austria
- Belgium
- Bulgaria ٠
- Cyprus ٠
- Czech Rep. •
- Denmark ٠
- Estonia ٠
- Finland
- France •
- Germany •
- Greece •
- Hungary •
- Iceland ٠
- Ireland ٠
- Italy •

547,449 691,778 501,200 51,604 693,194 349,162 87,238 343,060 4,054,124 5,408,460 741,574 656,494 19,447

- 272,233 3,963,790
- Latvia 148,667 Lithuania 217,623 Luxembourg 31,887 Malta 26,884 • Netherlands 1,052,351 304,011 Norway 2,499,229 Poland Portugal 692.059 Romania 1,402,169 Slovakia 355,049 Slovenia 135,176 Spain 3,002,725 • Sweden 597,797 Switzerland 507,641 United Kingdom 3,936,897

EUROPE

33,290,962

Cost per persons with mood disorders in European countries (€PPP, 2010):

•	Austria	4116
•	Belgium	3873
•	Bulgaria	940
•	Cyprus	2962
•	Czech Rep.	1934
•	Denmark	4143
•	Estonia	1645
•	Finland	3448
•	France	3427
•	Germany	4541
•	Greece	3000
•	Hungary	1934
•	Iceland	4595
•	Ireland	4242
•	Italy	3126

•	Latvia	1449
•	Lithuania	1341
•	Luxembourg	<u>5621</u>
٠	Malta	2524
•	Netherlands	3418
•	Norway	4865
•	Poland	1796
•	Portugal	2481
•	Romania	1311
•	Slovakia	1671
•	Slovenia	2436
•	Spain	3232
•	Sweden	3793
•	Switzerland	4224
•	United Kingdom	4887

EUROPE

Total costs of mood disorders in European countries in 2010 (€PPP million, 2010):

EUROPE

Cost per person and total costs by type of costs, mood disorders

Cost per patient (€PPP, 2010)	
Direct healthcare costs	781
Direct non-medical costs	464
Indirect costs	2161
Total	3406
Total costs (€PPP million, 2010) Direct healthcare costs Direct non-medical costs Indirect costs Total	26,016 15,437 71,952 113,405

Direct healthcare costs include all goods and services related to prevention, diagnosis and treatment, e.g. physician fees and hospitalization.

Direct non-medical costs cover other goods and services related to the disorder, e.g. social services, special accomodation and informal care.

Indirect costs cover work absences or retirement.

The most costly and prevalent brain disorders in Europe

105,163

93.927

74,380

65,684

64.053

43,301

35,425

Total costs (€PPP million, 2010):

1. Mood disorders	113,405
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2. Dementia

- 3. Psychotic disorders
- 4. Anxiety disorders
- 5. Addiction
- 6. Stroke
- 7. Mental Retardation
- 8. Sleep disorders
- 9. Traumatic brain injury 33,013
- 10. Personality disorder 27,345

Cardiovascular disease	182
Cancer	150 - 250

Prevalence:

1. Headache	152,812,362
2. Anxiety disorders	69,067,905
3. Sleep disorders	44,857,647
4. Mood disorders	33,290,962
5. Somatoform disorders	3 20,404,985
6. Addiction	15,538,043
7. Stroke	8,238,346
8. Dementia	6,341,179
9. Child/Adolescent dis.	5,932,112
10. Psychotic disorders	4,997,139

Recommendations:

- Increase support of research and encourage industry and investors to engage in research on depression
- Focus on the prevention of depression, and develop the best practice models in the organization of healthcare systems and social services
- Consider to include in the curricula and training elements regarding the costs and social burden of depression
- Monitor the impact of the prevention and treatment of depression on its costs.

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