

prof. MUDr. Jiří Raboch, DrSc.

Department of Psychiatry, First
Faculty of Medicine, Charles
University and General
University Hospital in Prague



PSYCHIATRY AND SOCIETY



MENTAL DISORDER

Is a syndrom characterized by clinically significant disturbance in an individual's cognition, emotion regulation, or behavior that reflects a dysfunction in the psychological, biological, or developmental processes underlying mental functioning. Mental disorders are usually associated with significant distress or disability in social, occupational, or other important activities.

DSM-5, 2013

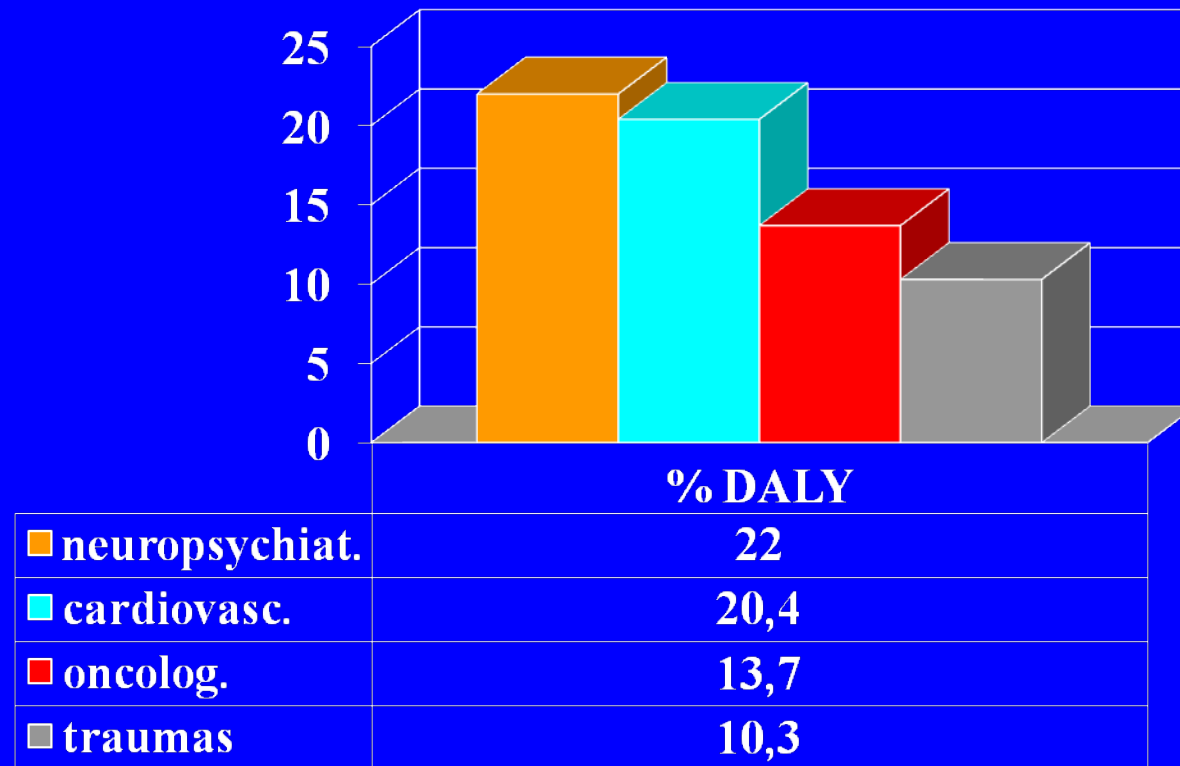
LIFETIME PREVALENCE- NCS-R

MENTAL DISORDERS	%	Age of onset (median)
U.S.		
Affective disorders	20.8	30
Anxiety disorders	28.8	11
Addictive Diseases	14.6	20
Behavioural disorders	24.8	11
Mental disorders	46.4	14

NUMBER OF FIRST EXAMINATIONS IN PSYCHIATRIC OUTPATIENT DEPARTMENTS

DIAGNOSIS	1994	2011	CHANGES (%)
ORGANIC DISORDERS	27 421	67 414	246
ADDICTIONS	31 097	44 569	143
SCHIZOPHRENIA	33 805	45 519	135
AFFECTIVE DISORDERS	37 915	102 671	271
NEUROTIC DISORDERS	103 577	215 634	208
DEVELOPMENTAL DISORDERS IN CHILDHOOD	23 460	27 339	117
TOTAL	307 877	556 456	181

WHO, WB: BURDEN OF DISEASE (DALY) DEVELOPED COUNTRIES



Murray a Lopez, 1996

PSYCHIATRY – MEDICAL SPECIALTY

natural history

knowledge, philosophical views

TWO TRENDS

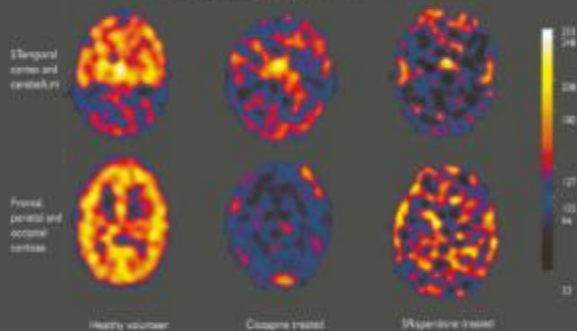
RESTRICTIVE
(PUNISHING)

PERMISSIVE (HEALING,
MEDICINALISATION)



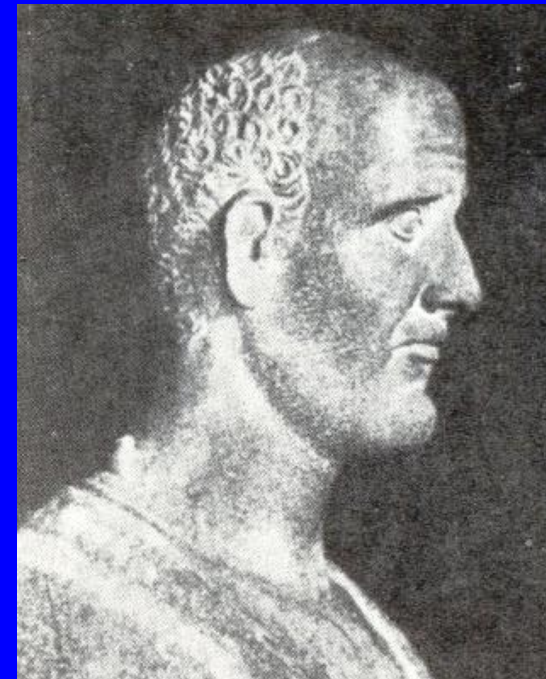
Obr. 1. „Hydroterapie“ u duševně nemocných. Dřevoryt z XVI. století (Foto: Bayer-Leverkusen.)

SPECT SCANS OF 5-HT_{1A} RECEPTOR DENSITY



PSYCHIATRY AND MANKIND

- **MAGICAL CAUSES OF MENTAL DISORDERS – INTERVENTIONS BY SUPERNATURAL FORCES, e.g. OBSESSION BY EVIL SPIRITS**
- **MENTAL DISEASE AS MARK OF SIN, MORAL IMPURITY - INCANTATION, PRAYERS, PUNISHMENT**
- **FOLK MEDICINE – HEALERS, SHAMANS, PRIESTS , TEMPLE MEDICINE (ASKLEPIEIONS), PHYSICIANS**



MENTAL DISEASES AND MANKIND



- **OLDEST MEDICAL DOCUMENTS - EBERS PAPYRUS 1500 BC, OBSESSION, INCANTATION AGAINST EVIL SPIRITS**
- **BIBLICAL DESCRIPTIONS OF MENTAL DISORDERS, E.G. THE OLD TESTAMENT, THE MADNESS OF THE KING SAUL (1000 – 985 BC) - SEVERE DEPRESSION (BAP), DAVID – HARP PLAYING**

MUSIC THERAPY

... and it came to pass, when the evil spirit from God was upon Saul, that David took a harp, and played with his hand: so Saul was refreshed, and was well, and the evil spirit departed from him.

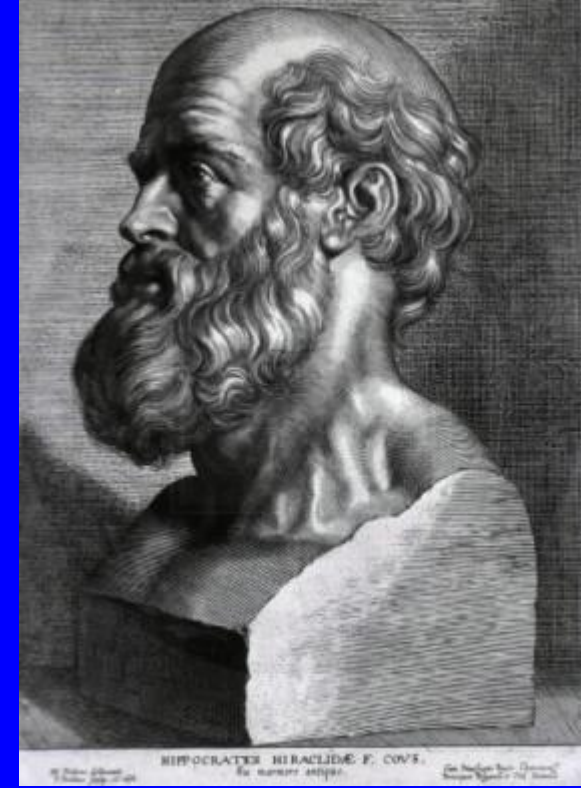
1 Samuel, Chapter 16:23



HIPPOCRATES

(460 – 370 B.C.)

- 4 BODILY HUMORS - SANGUIS, CHOLE, MELON CHOLE, PHLEGMA
- FIRST TYPOLOGY – SANGUINE, CHOLERIC, MELANCHOLIC, PHLEGMATIC
- MENTAL DISEASE – IMBALANCE OF BODILY HUMORS IN THE BRAIN
- PARANOIA – MELANCHOLIA, MANIA, PHRENITIS x HYSTERIA
- THERAPY – VENIPUNCTURE, EMETICS, LAXANTIVES, SWEATING ...



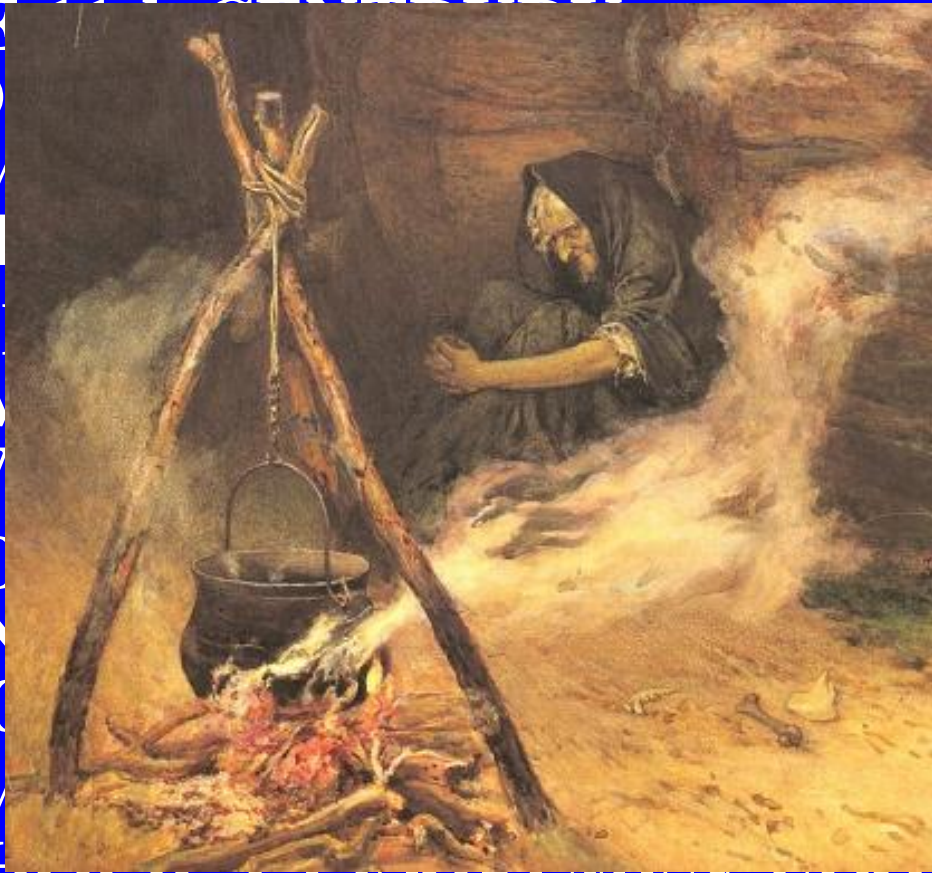
ROMAN EMPIRE

- **CORNELIUS CELSUS (25 BC – 50 AD), DE MEDICINA**
- **CLAUDIUS GALEN (129 – 200 BC), SCHOOL OF ECLECTICS, CORPUS GALLENICUM**
- **476 AD - FALL OF THE WESTERN EMPIRE - DECLINE OF THE HUMANISTIC AND SCIENTIFIC EDUCATION IN EUROPE**
- **CODEX THEODOSIANUS (438 AD) – MENTAL DISORDERS SEPARATED FROM MEDICINE, SUBJECT OF RELIGIOUS EVALUATION, PERSECUTION OF “MANIACS“**



MIDDLE AGES

- SINCE THE MIDDLE AGES, THE CHURCH HAS BEEN THE MAIN SOURCE OF DOGMAS BASED ON THE BIBLE.
- PROTECTED THE MIDDLE CLASSES FROM THE CONSEQUENCES OF THE DEMOCRATIC REVOLUTION, INSANITY, AND DIABOLICAL INFLUENCES.
- 1487 MARRIAGE OF THE KING OF MORAVIA (CATHOLIC CLERGYMEN JAKOB SPRENGER AND HEINRICH KRAEMER)
- EXORCISM, WITCH TRIALS (NORTHERN MORAVIA 1650 to 1680)



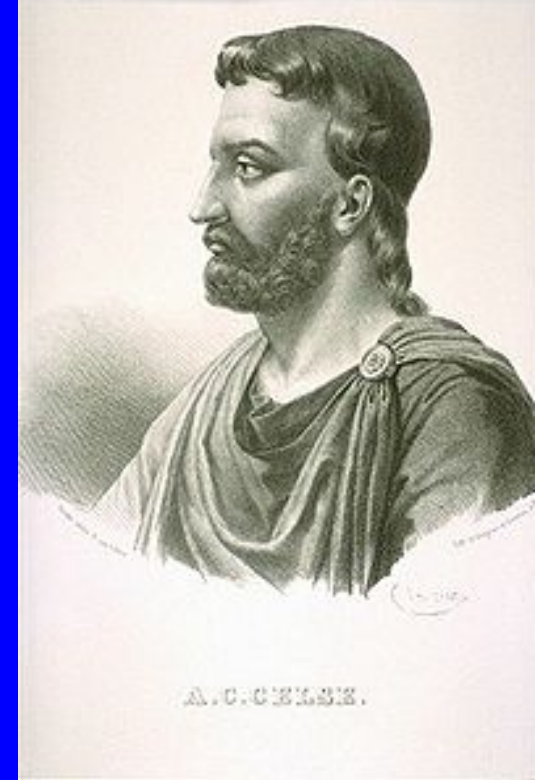
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CORNELIUS CELSUS (14 BC - 37 AD)

De medicina

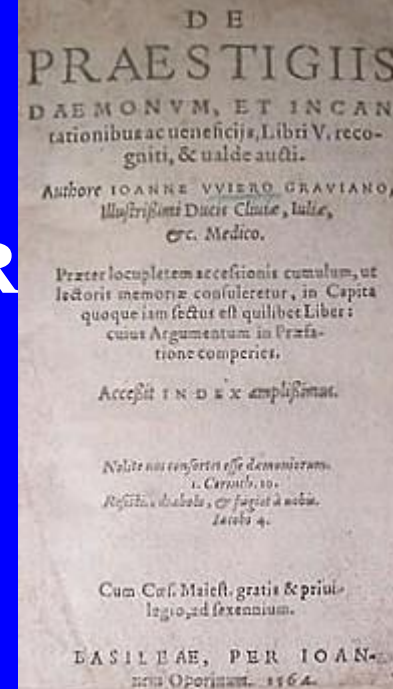
**Fame, vinculis, plagis
coercendus est insanus**

**The mentally ill must be coerced by
starvation, fetters and flogging**



REFORM EFFORTS

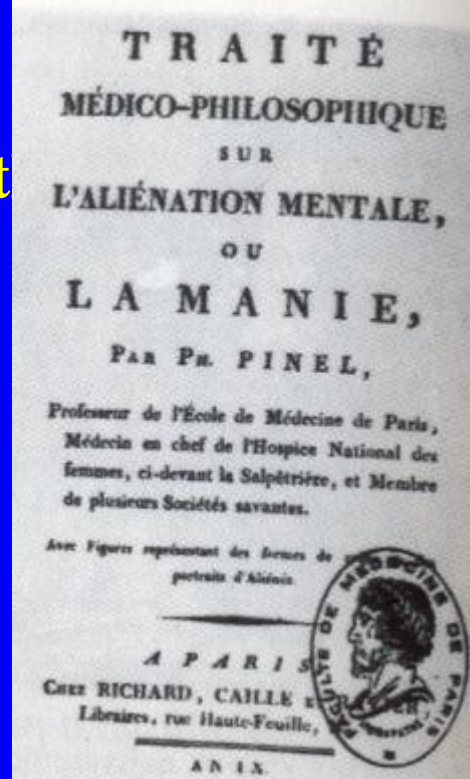
- 15th CENTURY ASYLUMS OUTSIDE CONVENTS
- BETHLEHEM (GB), SPAIN
- RENAISSANCE, RETURN TO HUMANISM
- PROPERTIES OF THE MIND ARE AGAIN ASSOCIATED WITH THE BODY AND SOCIAL INFLUENCES
- **1st PSYCHIATRIC REVOLUTION, J. WEYER (1515 – 1588), COURT DOCTOR TO DUKE WILLIAM THE RICH FROM CLEVES, DE PRESTIGIIS DAEMONUM - MENTAL DISORDERS – MEDICAL CAUSES**



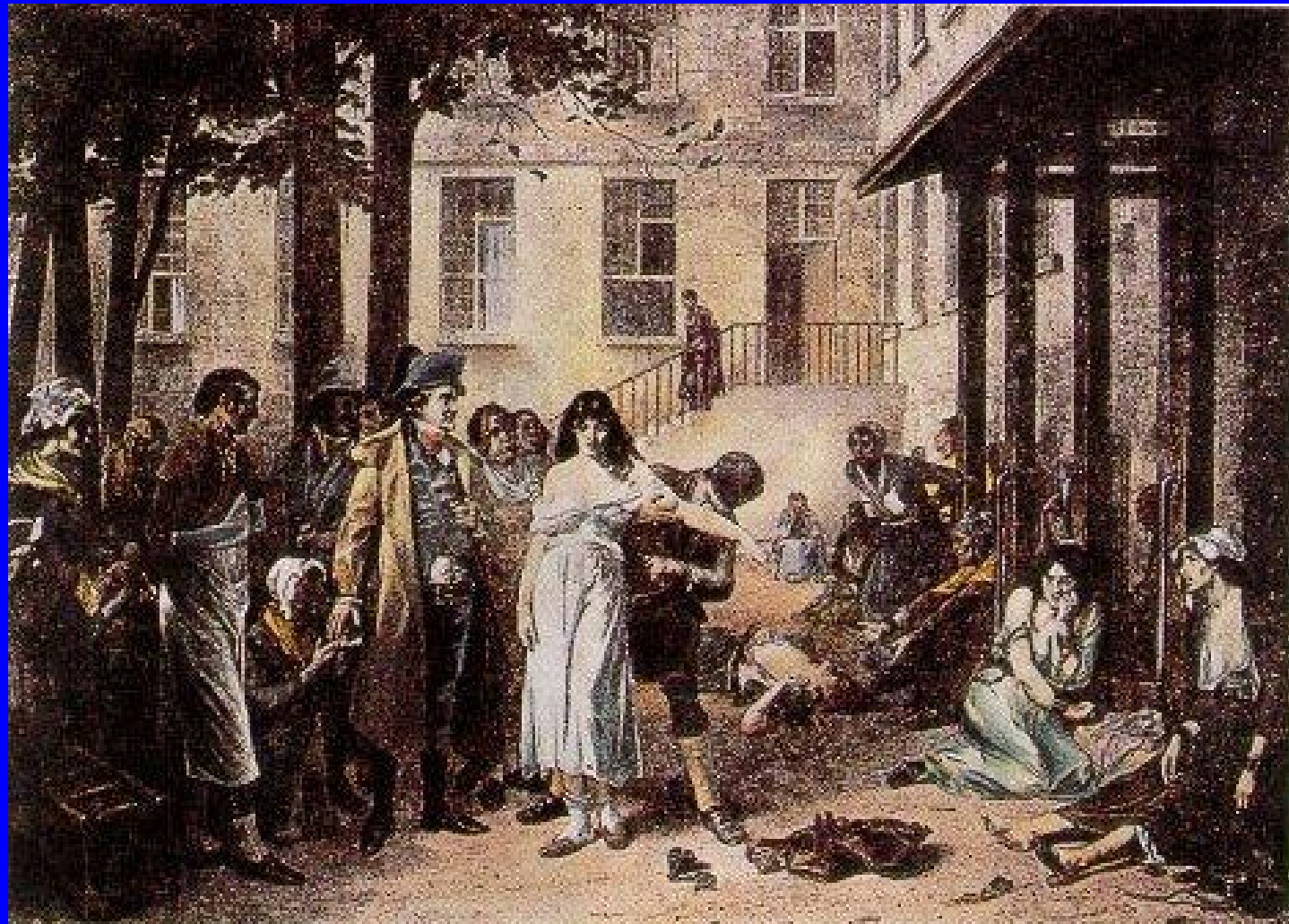
ENLIGHTENMENT

the rationalism, the logic and t

- VOLTAIRE, HOLBACH, HELVETIUS, DIDEROT, LAVOISIER, CABANIS
- **2nd PSYCHIATRIC REVOLUTION**
 - REAL REFORM OF THE CARE OF MENTALLY ILL PEOPLE
- FRENCH REVOLUTION (1789)
- PHILLIPE PINEL – BICETRE (1793, MEN) SALPETRIERE (1795, WOMEN), THERAPEUTIC REGIMEN, ACTIVITY THERAPY, PSYCHODRAMA
- SYSTEMATIC CLASSIFICATION OF MENTAL DISORDERS

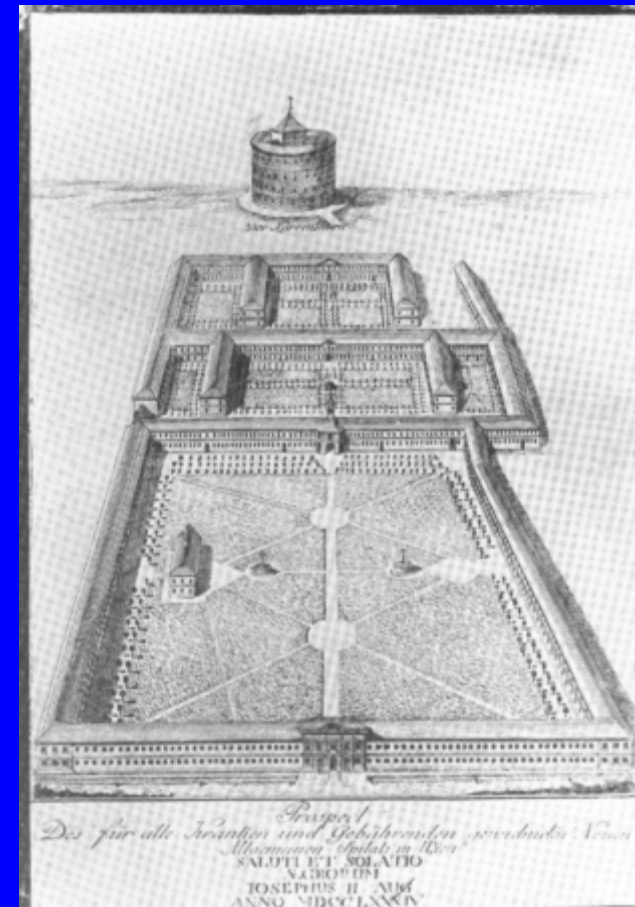


**Ph. PINEL: “HE RELEASED THE
MENTALLY ILL FROM THEIR
CHAINS”**



MEDICINE AND PSYCHIATRY IN CENTRAL EUROPE AT THE TURN OF THE 19th CENTURY

- Cellular medicine of Virchow (Rudolf V., 1821–1902) –
- “Omnis cellula e cellula“
- Isolation of the mentally ill - institutional psychiatry
- Therapeutic scepticism - physical exercise, relaxation, hydrotherapy, electrotherapy
- Medicines - opium, camphor, turpentine ...



VIENNESE PSYCHIATRY THE 19th CEN



ical "anatomy s
1804 -1878), J



ynert (1833–1892) – o
concept of mental illness

er von Jauregg (1857–1940)

malariotherapy of progressive paralysis
(syphilis) (Nobel Prize in 1927)

- **Egas Moniz (1874-1955) – brain surgery -
leucotomy (Nobel Prize 1949)**

MODERN PSYCHIATRY

19th/20th century



Abb. 12. Kraepelin (5) auf der Wanderversammlung der Südwestdeutschen Psychiater in Baden-Baden, u. a. mit Alzheimer (3), Bethe (1), Gaupp (2), Nissl (4) (ca. 1910)

CLASSIFICATION OF MENTAL DISEASES

- 1861 W. Griesinger - Einheitspsychose
- 1851 J. Falret – folie circulaire
- 1891 A. Pick – dementia praecox
- 1893 E. Kraepelin - textbooks
- 1911 E. Bleuler – schizophrenia
- 1912 K. Bonhoeffer – acute exogenous reaction types – depressed level of consciousness, altered consciousness, mental deterioration



The first half of the 20th century

EUROPE



- **Building of institutional psychiatry - psychoses**
- **Organic theory of mental disorders**
- **1900 S. Freud – Analysis of Dreams**



BIOLOGICAL TREATMENT



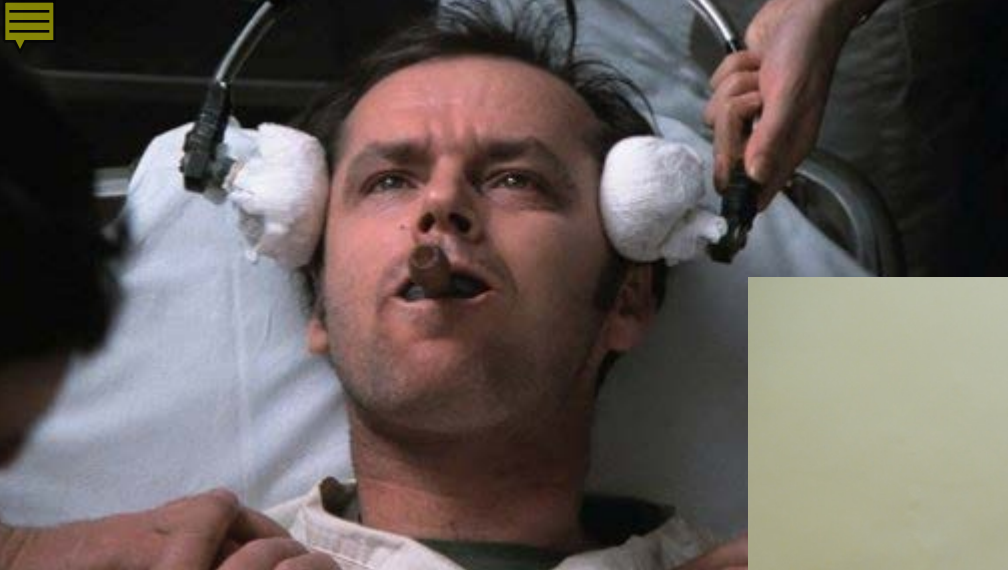
- **Cruel shock-based method**
- **Metasyncrisis – under the Roman Emperor Nero**
- **17th century – iatrochemical orientation – J.B. van Helmont fermentation processes, oxygen supply**

TREATMENT OF MENTAL DISORDERS BY FORCED SUBMERGING OF PATIENTS UNDER WATER

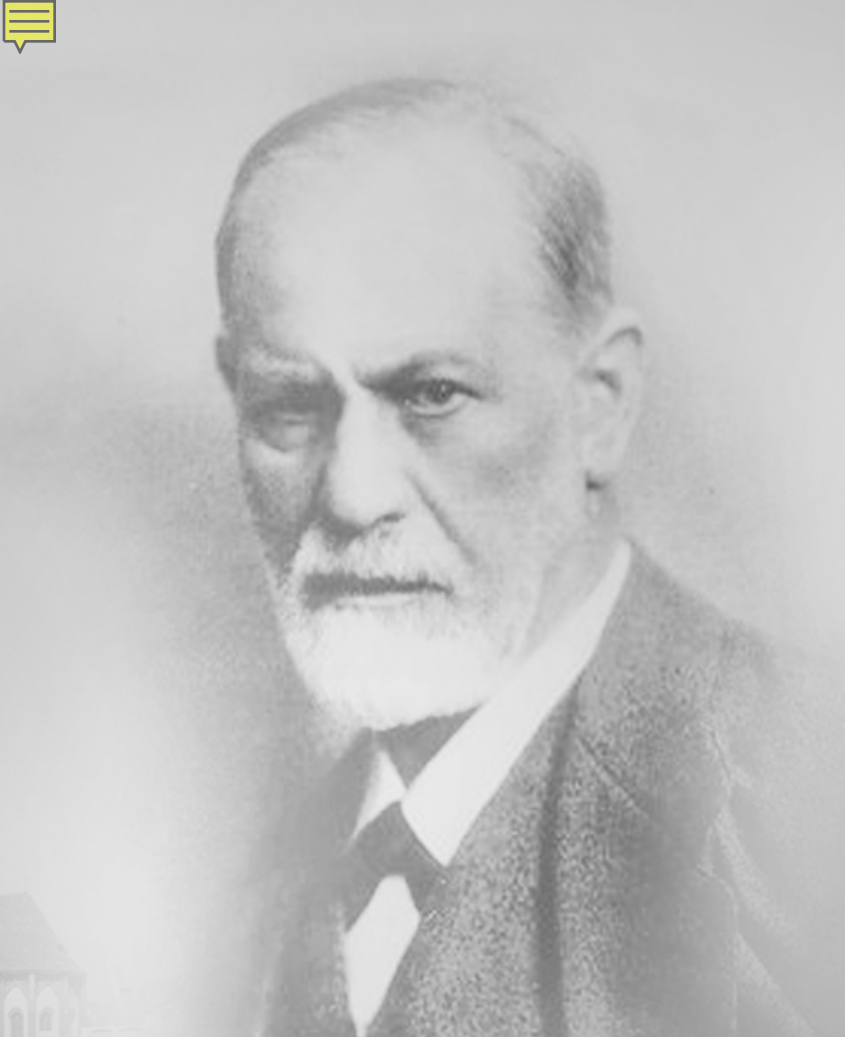
- 18th century - Herman Boerhaave – benedictio maris
- Benjamin Rush (19th century) – ducking
- Johan Christian Reil (19th century) – unschädliche Tortur



THERAPY CENTURY



- Ladislaus von Mesekorny and Julius Rosenberg discovered the effects of **cardiazole-induced convulsions** in 1926
- **Manfred Sack** and **Walter Dally** introduced **cardiazol-induced convulsions** as a treatment for schizophrenia in 1934
- **Ugo Cerletti** and **Lucio Bini** introduced **Electroconvulsive therapy** in 1938
- **Repetitive transcranial magnetic brain stimulation** (George 1999)



SIGMUND FREUD

1856 - 1939

- **THEORY OF THE UNCONSCIOUS**
- **METHOD OF FREE ASSOCIATION**
- **PSYCHOSEXUAL DEVELOPMENT**
- **TRANFERENCE, COUNTER-TRANSPERANCE**

T.G. MASARYK

The Making of a State Praha 1936



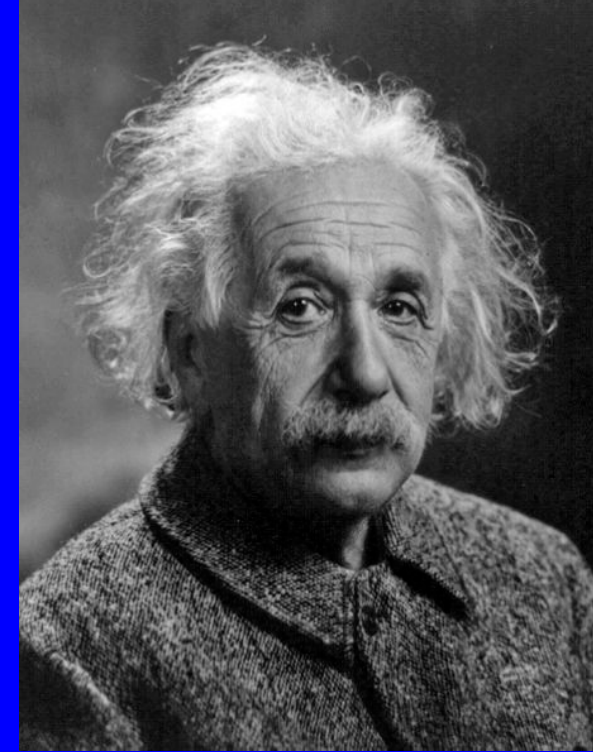
...A German and, instructed and spoiled by the Russians, we alike analyze and dig the soul to uncover where and what mysterious and sick there is to be found. The English and the American is increasingly naive; they are interested in a riddle that is more mechanical. But they can also get thoroughly infected by modern theories, problems and superproblems and possibly also the ridiculous psychology of Freud ...

ALBERT EINSTEIN

April 21, 1936

“...Until recently I could only apprehend the speculative power of your train of thought without being in a position to form a definite opinion about the amount of truth it contains.

Not long ago, I had the opportunity of hearing about a few cases which in my judgement exclude any other interpretation than that provided by the theory of repression.”



Fascism and WW II

to remove „inferiors from the society“

- **1933 Law for the prevention of Progeny with Hereditary Diseases – sterilisation of 400 000 people**
- **1939 Euthanasia, in paediatric departments, 10 000 children were murdered**
- **1939 – 1940 Within the T4 action, 70,000 psychiatric patients were killed in Germany; until 1945, a total of 180,000**
- **Flight of many Jewish psychiatrists from continental Europe (S. Freud)**



„AKTION T4“ – dr. Karl Brandt

... by murdering 70 273 inmates, for 10 years the German government will save 33,731,040 eggs and 3,710,414 German marks and 40 pfennigs ... savings for vegetables and other food supplies have been also calculated...

Jaroszewski, 1993



Second Half of the 20th Century

- 50s - psychoanalysis
1952 Delay a Deniker – chlorpromazine
- 60s - social approaches, community psychiatry
- 70s - epidemiological research
- 80s - new classification systems: DSM III, ICD 10, biological psychiatry
- 90s - evidence-based medicine, cost-effectiveness, Global Burden of Disease
- **3rd PSYCHIATRIC REVOLUTION**



Nobel Prize in Medicine in 2000

- ❑ **ARVID CARLSSON** – dopamine and psychomotor activity
- ❑ **PAUL GREENGAARD** – mechanism of action of dopamine and other neurotransmitters
- ❑ **ERIC KANDEL** – molecular mechanisms of affecting the activity of synapses



ONE-YEAR PREVALENCE OF DEPRESSIVE DISORDERS

	1991-2	2001-2	P<
Number	42 862	43 093	
Total	3.33	7.06	0.001
Men	2.74	4.88	0.001
Women	3.88	9.06	0.001
18 – 29	5.99	9.98	0.001
30 – 44	3.86	7.32	0.001
45 +	1.32	5.54	0.001



Disability Adjusted Life Years

THE GLOBAL BURDEN OF DISEASE

	1990	2030
1	Respiratory infections	Unipolar depression
2	Intestinal infections	CHD
3	Perinatal mortality	Traffic accidents
4	Unipolar depression	Cerebrovascular
5	CHD	Respiratory infections
6	Cerebrovascular	Hearing losses
7	Tuberculosis	Congenital defects
8	Measles	HIV infection
9	Traffic accidents	Diabetes
10	Congenital defects	perinatal infections

NEUES HAUS 1840 - 1844

ALTES HAUS 1822



1790



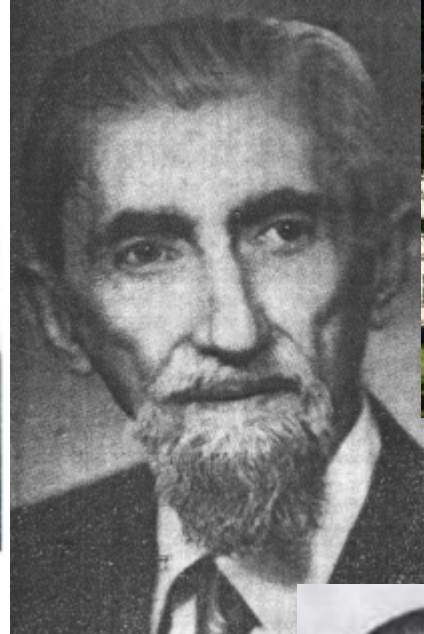
Lichteit

K. K. IRREN ANSTALT.

St. Ca. Maria

Psychiatric Clinic of the General Teaching Hospital 2012





*More in volder jode
cel' terta klenky*

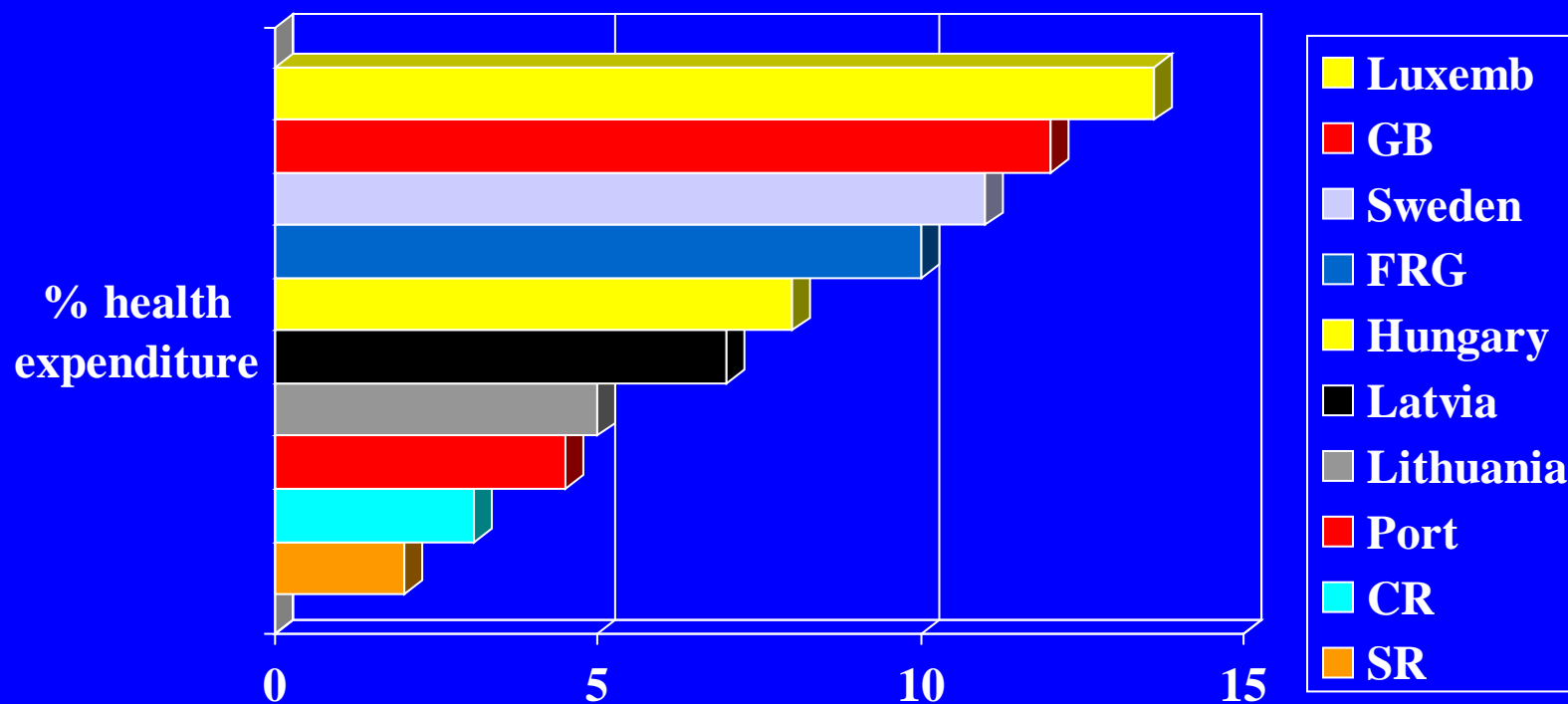
W. J. Jansky

P. J. Jansky

**THANK YOU FOR YOUR
ATTENTION!**

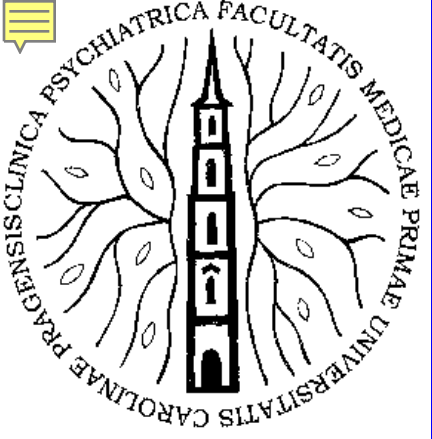


Achievement of just funding extended to psychiatric care in keeping with the European standards and reflecting its medical, social as well as economic importance



SATISFACTION WITH TREATMENT EDEN (CAT 0 – 10)

Town	Day Care	Hospitalisation
Dresden	7.4	7.5
London	7.7	6.5
Wroclaw	7.8	8.2
Praha	8.2	8.3



PSYCHIATRY IN VFN

- 1790 MENTAL INSTITUTION – CUSTODIAE MENTE CAPTORUM
- 1822 ST. CATHERINE' CONVENT – “OLD HOUSE“
- 1844 NEW HOUSE,
- DOC. KAREL RIEDL

