



SEVERE MENTAL ILLNESS

Results of a multisite randomized trial of supported employment interventions for individuals with severe mental illness.

Cook JA, Leff HS, Blyler CR, Gold PB, Goldberg RW, Mueser KT, Toprac MG, McFarlane WR, Shafer MS, Blankertz LE, Dudek K, Razzano LA, Grey DD, Burke-Miller J. *Arch Gen Psychiatry*. 2005 May;62:505-12.

A higher rate of competitive employment, increased likelihood of working over 40 hours per month, and greater monthly income were seen in 648 severely mentally ill patients who were randomly assigned to combined clinical and vocational rehabilitation compared to 625 severely mentally ill patients assigned to vocational rehabilitation alone, after 24 months of follow-up. See Figure 1, Figure 2, Figure 3.

Highly cited paper: J Consult Clin Psychol. 1996 Apr;64:391-9.

Cochrane review: Cochrane Database Syst Rev. 2001;(2):CD003080.

ACP Journal Club: ACP J Club. 2002 Jul-Aug;137:22.

CHILD

Psychopathology Among New York City Public School Children 6 Months After September 11.

Hoven CW, Duarte CS, Lucas CP, Wu P, Mandell DJ, Goodwin RD, Cohen M, Balaban V, Woodruff BA, Bin F, Musa GJ, Mei L, Cantor PA, Aber JL, Cohen P, Susser E. *Arch Gen Psychiatry*. 2005 May;62:545-551.

Twenty-nine percent of 4th to 12th graders in New York City public schools had a probable anxiety or depressive disorder 6 months after the September 11 attacks, with higher rates in girls, 4th and 5th graders, and those with greater exposure to the event, according to a population-based survey of 8236 students. See Table 4.

Highly cited paper: N Engl J Med. 2001 Nov 15;345:1507-12.

Cochrane review: Cochrane Database Syst Rev. 2002;(2):CD000560.

ACP Journal Club: ACP J Club. 2002 Sept-Oct;137:69.

ECT

Relief of Expressed Suicidal Intent by ECT: A Consortium for Research in ECT Study.

Kellner CH, Fink M, Knapp R, Petrides G, Husain M, Rummans T, Mueller M, Bernstein H, Rasmussen K, O'Connor K, Smith G, Rush AJ, Biggs M, McClintock S, Bailine S, Malur C. *Am J Psychiatry*. 2005 May;162:977-82.

Eighty-one percent (106/131) of patients who reported suicidal thoughts or acts experienced resolution of suicidal intent after an acute course of ECT, in this study of 444 patients with depression. See Table 2.

Highly cited paper: Am J Psychiatry. 1998 Dec;155:1778-80.

Cochrane review: Cochrane Database Syst Rev. 2003;(2):CD003593.

ACP Journal Club: ACP J Club. 2002 Mar-Apr;136:63.

SCHIZOPHRENIA

Regional volume deviations of brain structure in schizophrenia and psychotic bipolar disorder: Computational morphometry study.

McDonald C, Bullmore E, Sham P, Chitnis X, Suckling J, Maccabe J, Walshe M, Murray RM. *Br J Psychiatry*. 2005 May;186:369-77.

Less gray matter was seen in the brains of 25 patients with schizophrenia in frontotemporal, medial temporal, insular, thalamic, and cerebellar regions, whereas both schizophrenic patients and 37 patients with bipolar disorder with psychosis shared regions of white matter deficit when compared to 52 healthy volunteers, in this MRI study using computational morphometry. See Figure 1 and Figure 3.

Highly cited paper: Biol Psychiatry. 1999 May 1;45:1099-119.

Textbook entry: Basic Neurochemistry, 6 ed. Part 7: 51.

CULTURAL

Posttraumatic Stress Disorder and Memory Problems After Female Genital Mutilation.

Behrendt A, Moritz S.

Am J Psychiatry. 2005 May;162:1000-1002.

Thirty percent (7/23) of circumcised Senegalese women had PTSD versus 0% (0/24) of uncircumcised Senegalese women, as measured by the Mini International Neuropsychiatric Interview. See Table 1.

Highly cited paper: BMJ. 1995 Jun 17;310:1590-2.

Textbook entry: SAMHSA/CSAT Treatment Improvement Protocols. 36: Chapter 2.

Community study of knowledge of and attitude to mental illness in Nigeria.

Gureje O, Lasebikan VO, Ephraim-Oluwanuga O, Olley BO, Kola L.

Br J Psychiatry. 2005 May;186:436-41.

Eighty-one percent of Yoruba-speaking Nigerians thought mental illness was a result of drug or alcohol abuse, 97% believed mentally ill people were violent and dangerous, and 83% were afraid to have a conversation with a mentally ill person, in this analysis of 1661 respondents to a World Psychiatric Association questionnaire. See Table 2.

Highly cited paper: Psychol Med. 1997 Jan; 27:59-71.

Textbook entry: Reports of the Surgeon General. Mental Health: Culture, Race, and Ethnicity (supplement). Chapter 2.

DEPRESSION

The interaction of stressful life events and a serotonin transporter polymorphism in the prediction of episodes of major depression: a replication.

Kendler KS, Kuhn JW, Vittum J, Prescott CA, Riley B.

Arch Gen Psychiatry. 2005 May;62:529-35.

A higher rate of major depression in the last year was seen in individuals homozygous for the short polymorphism of the serotonin transporter gene, compared to those with at least one allele of the long polymorphism, and the effect was most pronounced in those who had experienced a mild life stressor, according to this population-based study of 549 adult twins. See Figure 2.

Highly cited paper: Science. 2003 Jul 18; 301:386-9.

Textbook entry: Basic Neurochemistry, 6 ed. Part 2: 13.

Reduced hippocampal volume in unmedicated, remitted patients with major depression versus control subjects.

Neumeister A, Wood S, Bonne O, Nugent AC, Luckenbaugh DA, Young T, Bain EE, Charney DS, Drevets WC.

Biol Psychiatry. 2005 Apr 15;57:935-7.

Smaller total and posterior hippocampal volumes were seen in 31 remitted, medication-free patients with a history of major depression versus 57 healthy control subjects, when examined by 3-Tesla MRI. See Figure 1.

Highly cited paper: Proc Natl Acad Sci U S A. 1996 Apr 30;93:3908-13.

Textbook entry: Eurekah Bioscience Collection. Neurodegenerative Disease. Neurotrophins.

MED-PSYCH

The role of stress-induced cortisol in the relationship between depression and decreased bone mineral density.

Furlan PM, Ten Have T, Cary M, Zemel B, Wehrli F, Katz IR, Gettes DR, Evans DL.

Biol Psychiatry. 2005 Apr 15;57:911-7.

Excess salivary cortisol was found after a stressful task in 9 postmenopausal women with a history of depression who also had decreased bone mineral density on DEXA scan, when compared to 10 postmenopausal women without a history of depression. See Table 4.

Highly cited paper: N Engl J Med. 1996 Oct 17;335:1176-81.

Textbook entry: NIH Consensus Development Program. 111. Osteoporosis Prevention, Diagnosis, and Therapy. Part 1.

BIOLOGY

Differential hormonal regulation of tryptophan hydroxylase-2 mRNA in the murine dorsal raphe nucleus.

Clark JA, Pai LY, Flick RB, Rohrer SP.

Biol Psychiatry. 2005 Apr 15;57:943-6.

Less tryptophan hydroxylase-2 mRNA was seen in the dorsal raphe nuclei of C57/Bl6 mice given dexamethasone compared to mice given saline and the effect was blocked by simultaneous administration of mifepristone, according to analysis by riboprobes and real-time RT-PCR. See Figure 3.

Highly cited paper: Biochem Pharmacol. 2003 Nov 1;66:1673-80.

Textbook entry: Basic Neurochemistry, 6 ed. Part 2: 13.



DUKE RESEARCH

MED-PSYCH

Social Network Diversity and Risks of Ischemic Heart Disease and Total Mortality: Findings from the Copenhagen City Heart Study.

Barefoot JC, Gronbaek M, Jensen G, Schnohr P, Prescott E.

Am J Epidemiol. 2005 May 15;161:960-967.

GERIATRICS

Influence of serotonin transporter promoter region polymorphisms on hippocampal volumes in late-life depression.

Taylor WD, Steffens DC, Payne ME, Macfall JR, Marchuk DA, Svenson IK, Krishnan KR. *Arch Gen Psychiatry*. 2005 May;62:537-44.

TRIALS

The case for practical clinical trials in psychiatry.

March JS, Silva SG, Compton S, Shapiro M, Califf R, Krishnan R. *Am J Psychiatry*. 2005 May;162:836-46.

PHARMACOLOGY

Hyperforin Plasma Level as a Marker of Treatment Adherence in the National Institutes of Health Hypericum Depression Trial.

Vitiello B, Shader RI, Parker CB, Ritz L, Harlan W, Greenblatt DJ, Gadde KM, Krishnan KR, Davidson JR. *J Clin Psychopharmacol*. 2005 Jun;25:243-249.

ENVIRONMENT

Symptomatic effects of exposure to diluted air sampled from a Swine confinement atmosphere on healthy human subjects.

Schiffman SS, Studwell CE, Landerman LR, Berman K, Sundry JS. *Environ Health Perspect*. 2005 May;113:567-76.

BIOLOGY

Magnetic resonance imaging at microscopic resolution reveals subtle morphological changes in a mouse model of dopaminergic hyperfunction.

Cyr M, Caron MG, Johnson GA, Laakso A. *Neuroimage*. 2005 May 15;26:83-90.

Developmental exposure of rats to chlorpyrifos leads to behavioral alterations in adulthood, involving serotonergic mechanisms and resembling animal models of depression.

Aldridge JE, Levin ED, Seidler FJ, Slotkin TA. *Environ Health Perspect*. 2005 May;113:527-31.

Nicotine and clozapine actions on pre-pulse inhibition deficits caused by N-methyl-D-aspartate (NMDA) glutamatergic receptor blockade.

Levin ED, Petro A, Caldwell DP. *Prog Neuropsychopharmacol Biol Psychiatry*. 2005 May;29:581-6.

Resurrecting ancestral alcohol dehydrogenases from yeast.

Thomson JM, Gaucher EA, Burgan MF, De Kee DW, Li T, Aris JP, Benner SA. *Nat Genet*. 2005 May 1