

Table S12*Data contributions and Characteristics of the German Research Network of Mental Disorders*

| Consortium, coordination^a | Parti- pants | Main aim | Inclusion criteria | Exclusion criteria |
|---|--|---|---|--|
| PROTECT-AD, H.-U. Wittchen, TU Dresden | <i>N</i> =600; data used: <i>N</i> =600 | Optimized extinction: intensified cognitive- behavioral therapy of AD with and without comorbidity | - 15-70 years; ♂, ♀ - current primary AD (DSM-V) - severity at baseline HAM-A>18 and CGI>3 - able to attend on his/her own or accompanied by significant other - language competence | - general medical contraindications - acute suicidality - any DSM-IV/V psychotic/primary mood disorders (BD I, recurrent or chronic MDD) - mono-symptomatic specific phobia - current substance use dependence - concomitant psychological/psychiatric treatment |
| ESCALIFE, ESCALate, T. Banaschewski, Central Institute of Mental Health (CIMH) Mannheim | <i>N</i> =25; data used: <i>N</i> =25 | Evidence-based, gradual care of ADHD over the life span | - 16-45years; ♂, ♀ - ADHD diagnosis (DSM-V) | - severe heart disease - epilepsy - IQ<80 - psychiatric disorders - medication (psychotropic or ADHD): need of a 4-week wash-out period before participation in the study - insufficient language skills - current alcohol or drug dependence - pregnancy or breast feeding - common comorbidities (e.g., conduct disorder, PD (except ASPD); AD or mild to moderate MDD and SUD in remission did not lead to exclusion |
| ASD-NET, I. Kamp-Becker, Philipps University Marburg | <i>N</i> =23; data used: <i>N</i> =23 | ASD over the life span: more effective care through valid diagnoses and a better understanding of etiology | - 19-40 years; ♂ - infantile autism - Asperger's syndrome - atypical autism (ICD-10) - native language german | - BMI≤18 or ≥30 - IQ<70 - investigational product contraindication (e.g., cardiac arrhythmia) - screening results: HR>120 bpm, SBP>180 mmHg, DPD>100 mmHg - medication intake affecting the central nervous system (e.g., opiate, psychotropic drugs) - past neurological and endocrinological diseases - acute suicidality |

BipoLife,
M. Bauer,
University Hospital
Dresden

N=99;
data
used:
N=99

Improving the
detection and
treatment of BD

Dresden:

- 15-35 years; ♂, ♀

Risk group I:

- consultation of an early recognition center
- presence of at least one risk factors for BD:
family history, affective symptomatology/
depressive syndrome, hypomanic/ mood swings,
disturbances of circadian rhythm/sleep, other
clinical hints

Risk group II:

- in- or outpatients with a depressive syndrome (in
the context of MDD, dysthymic disorder,
cyclothymic disorder, minor depressive disorder,
recurrent brief depressive disorder, adjustment
disorder with depressed mood, depressive
disorder not otherwise specified)

Tübingen:

- 18-55 years; ♂, ♀

- current primary BD-I or BD-II (DSM-V)
- current on psychiatric treatment with adequate
medication
- at least 4 weeks of remission
- mood disorder (QIDS-C \leq 10, YMRS \leq 12)

- psychiatric disorders
- psychotherapeutic treatment
- first or second degree relative with ASD
- MRI-contraindications
- regular consumption of drugs, alcohol, nicotine
- AQ-Interview \geq 32 points

Dresden:

- primary diagnosis: BD, SZ, SZA, AD, OCD or SUD
- limited ability to comprehend the study
- implied expressed negative declaration of intent to
participate in the study by a minor
- acute suicidality

Tübingen:

- IQ $<$ 85
 - schizophrenic or other psychotic disorder (eg., ASPD,
SZ, SZA or any psychotic disorder); psychotic features
within an affective episode are not an exclusion
criteria
 - acute suicidality
 - substance abuse
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| <p>OptiMD, R. Rupprecht, University of Regensburg</p> | <p><i>N</i>=360; data used: <i>N</i>=171</p> | <p>New strategies for the optimized treatment of depression</p> | <p>Munich^b: Project A2: - 18-55 years; ♂, ♀ - current BD-I or BD-II (DSM-V) - current on psychiatric treatment - appropriate medication according S3-guideline - stable remission (at least 4 weeks) - regarding to the affective episode: clinically relevant limits of external (clinician) rating: (QIDS-C≤10, YMRS≤12) - at least one affective episode in the last 2 years Project B3: - ≥18 years; ♂, ♀ - previous or current lithium treatment for a period > 1 year - overall > 4 episodes</p> <p>Regensburg, Munich, Heidelberg: - inpatients with depressive syndrome (HAM-D-21 ≥ 14): first depressive episode, recurrent MDD, BD (current depressive episode), SZA, mixed AD and MDD - caucasian origin</p> <p>Berlin: - current primary MDD (ICD-10) during hospital stay</p> | <p>Munich^b: - acute suicidality - schizophrenic or other psychotic disorder (DSM-V); Project A2: psychotic characteristics during affective episodes are no criterion for exclusion - IQ <85 Project A2: - lack of willingness of prescribed medication intake (normally long-term medication) - receiving current or previous (< 6 months) ambulant standard psychotherapy - SZA, ASPD, or BPD (DSM-V) - SUD (DSM-V, except nicotine) during the last 6 months (earlier SUD and actual stable remissions for over 6 months are allowed) - SUD (DSM-V) endangering study participation Project B3: - clear organic or substance induced cause of the psychiatric disorder</p> <p>Regensburg, Munich, Heidelberg: - severe neurological or internal accompanying illness (e.g., dementia, morbus cushing) - depressive episode secondary to a somatic/neurological disease or substance abuse/dependence - pregnancy or breast-feeding</p> <p>Berlin: - control group: current ICD-10 psychiatric disorder</p> |
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| <p>GCBS, F. Padberg, University of Munich</p> | <p><i>N</i>=115; data used: <i>N</i>=40</p> | <p>Brain stimulation for mental disorders</p> | <p>Munich:</p> <ul style="list-style-type: none"> - 18-65 years; ♂, ♀ - MDD (DSM-V), current depressive episode of less than 5 years duration - HAM-D-21\geq15 at screening visit - medications: patient did not respond to at least one antidepressant treatment in the current episode; patient is taking a SSRI of adequate dose and \geq 4 weeks in the current episode | <p>Munich:</p> <ul style="list-style-type: none"> - any relevant instable medical condition - high degree of therapy resistance: >4 sufficient treatment attempts in the current episode - any other relevant psychiatric axis-I- and/or axis-II-disorder - electroconvulsive therapy treatment in the present episode - history of clinical transcranial direct current stimulation treatment (except single experimental sessions) - treatment with deep brain stimulation or vagus nerve stimulation and/or any other intracranial implants - acute suicidality - investigators, site personnel directly affiliated with this study, and their immediate families - pregnancy |
| | | | <p>Berlin:</p> <ul style="list-style-type: none"> - 20-65 years; ♂, ♀ - MDD (DSM-V), current depressive episode less than 5 years duration - medications: no psychotropic medication (\geq4 weeks) or current stable medication (\geq 4 weeks) with SSRIs | <p>Berlin:</p> <ul style="list-style-type: none"> - medication: more than four failed attempts in current episode; other psychotropic medications - outpatient treatment (behavioral therapy) for the current episode - electroconvulsive therapy for the current episode - MRI-contraindications - stroke (past 2 years), epileptic seizure or diagnosed epilepsy, dementia, Parkinson's disease, Huntington's chorea, multiple sclerosis, any other neurological disease, which leads to intracranial pressure, brain lesions or higher risk for epileptic seizures - psychotic tendencies in lifetime - BD, AD, PTSD, ED, PD - Substance abuse or dependence in the past 6 months (except nicotine, caffeine) |

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| APIC , F. Schneider, RWTH Aachen, Jülich Aachen Research Alliance (JARA-BRAIN) | <i>N</i> =295; data used: <i>N</i> =89 | Antipsychotic-induced structural and functional brain changes | - 18-65 years; ♂, ♀ - SZ (DSM-V) - legally competent and capable of taking part in the study | - severe physical diseases (e.g., epilepsy, cancer) - missing or incomplete medication history - MRI-contraindications - pregnancy or breast-feeding - persons placed in an institution on the orders of public authorities or courts - dependency or employment relationship with the sponsor or investigator - simultaneous participation in another clinical trial |
| ESPRIT , A. Meyer- Lindenberg, Central Institute of Mental Health (CIMH) Mannheim | <i>N</i> =395; data used: <i>N</i> =384 | Improving prevention and recovery in schizophrenia through innovative therapies | - 18-65 years; ♂, ♀ - patients: SZ, MDD, BD-I, ASD - control group: no personal or family history of psychiatric disorders | - chronic physical disease - MRI-contraindications - patients: BD-II, SUD, PD - patients with comorbidities were not excluded, if comorbidities 1) evolved as a consequence of, or 2) were markedly less pronounced as the primary disorder |

Note. Characteristics of eight consortia of the German Research Network of Mental Disorders. *N* = 1,912 (entry data) and 1,431 (after data preparation, used in analyses).

Consortia: AERIAL = Early Recognition and Intervention Across the Lifespan; APIC = Antipsychotic induced brain changes; ASD-NET = Autism spectrum disorder - net; ESCALife = Evidence-based, stepped care of ADHD along the life-span; ESPRIT = Enhancing schizophrenia prevention and recovery through innovative treatments; GCBS = German center for brain stimulation; OptiMD = Optimized treatment of major depression; PROTECT-AD = Providing tools for effective care and treatment of anxiety disorders. **Disorders:** AD = Anxiety disorder; ADHD = Attention deficit hyperactivity disorder; ASD = Autism spectrum disorder; ASPD = Antisocial personality disorder, BD = Bipolar disorder; BPD = Borderline personality disorder; ED = Eating disorder; MDD = Major depression disorder; OCD = Obsessive-compulsive disorder; PD = Personality disorder; PTSD = Posttraumatic stress disorder; SUD = Substance use disorder; SZ = Schizophrenia; SZA = Schizoaffective disorder. **Other:** AQ = Autism-Spectrum Quotient; DPD = Diastolic blood pressure; DSM-V/DSM-IV = Diagnostic and Statistical Manual of Mental Disorders, Fourth/Fifth Edition; CGI = Clinical Global Impression Scale; HAM-A = Hamilton Anxiety Rating Scale; HAM-D-21 = Hamilton Depression Rating Scale, Version 21; HR = Heart rate; ICD-10 = International Classification of Diseases, 10th Revision; MRI = Magnet Resonance Imaging; QIDS-C = Quick Inventory of Depression Symptomatology - Clinician rating; SBP = Systolic blood pressure; SSRI = Selective Serotonin Reuptake Inhibitor; YMRS = Young Mania Rating Scale.

^a Coordination center for each consortium (for details of all consortia members, see Bauer et al. (20))

^b Location provided data of two subprojects: Bipolife A2 and Bipolife B3

Article: Mapping Research domain criteria using a transdiagnostic Mini-RDoC assessment in mental disorders – a confirmatory factor analysis

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