

List of Beneficiaries

The ADDUCE project team was formed on the backbone of EUNETHYDIS and the majority of work packages leaders were experienced paediatric psychiatrists all having a mutual interest in ADHD. Many of them have successfully collaborated in the past in the ADHD guideline group produced under the coordination of EUNETHYDIS and had worked on various collaborative ADHD projects. All the investigators involved in the prospective clinical studies (WP3 and WP8) have vast experience in paediatric clinical trials and provide high standard clinical facilities for patient recruitment and assessment.

The extensive experience gained in previous successful collaborations between the partners has benefited the communication within the consortium and in turn will increase the productivities as well as reducing the risk of failure. EUNETHYDIS has a long experience of working with the WP leaders for the last decade or more and therefore will be particularly able to resolve internal WP issues, enhance interaction between partners; evaluate any risk finding in significance and propose contingency plans to the coordinator.

1. **The University of Dundee** (UNIVDUN) is a leading UK institute for medical research. The Dundee Developmental Research Group (DDRG, headed by Dr David Coghill) specializes in high quality clinical care and research into various child and adolescent neuropsychiatric disorders including ADHD, Conduct Disorder, Depression and Autism Spectrum Disorders. The group's clinical research is conducted alongside the local Child and Adolescent Mental Health Services with whom they share staff and have strong links. This service receives around 1000 new referrals each year. Drs Coghill, Seth and Graham run the Developmental Disorders Team which is responsible for managing all of the children with ADHD in the region (Current caseload \approx 800). Clinical trials are conducted within a dedicated children's clinical trial facility supported by the Scottish Medicines for Children Research Network. As a consequence, research into the efficacy and safety of medication treatment for psychiatric disorders in children and adolescents is on the priority list of research activities.
2. **The Radboud University Nijmegen Medical Centre** (RUNMC) is a leading Dutch institute for medical research. The Department of Psychiatry and the Karakter Child and Adolescent Psychiatry University Centre (both headed by Professor Jan K Buitelaar) are specialised in clinical care and research in neuropsychiatric disorders such as ADHD, Conduct Disorder, Schizophrenia and Autism Spectrum Disorders. This research is embedded in two local research institutes, the Donders Institute for Brain, Cognition and Behaviour, and the Nijmegen Centre for Evidence-Based Practice. As such, research into the efficacy and safety of medication treatment for psychiatric disorders in children and adolescents and adults is of a high priority. The Nijmegen outpatient clinics have approximately 400 new child and adolescent ADHD patients and about 200 new adult ADHD patients per year. They have a database of more than 2000 children with ADHD, and 600 adults with ADHD. The clinical and research teams include a total of 30 child and adolescent psychiatrists, 15 adult psychiatrists, 20 senior psychologists, 5 post-doctoral staff and 20 trainees.
3. **The Central Institute of Mental Health** (CIMH) in Mannheim, Germany is an independent public foundation of the State of Baden-Württemberg associated with the University of Heidelberg and is one of Europe's premier research institutions dedicated to mental health. It is

dedicated to research in psychiatry, addiction medicine, psychosomatic medicine and psychotherapy, neuroscience, clinical psychology, medical sociology and epidemiology. The Institute has been a Collaborating Centre for Research and Training in Mental Health with the WHO since 1980. The Department of Child and Adolescent Psychiatry and Psychotherapy (CAP), headed by Prof. Tobias Banaschewski, MD, PhD, at the (CIMH) and specialises in psychiatric treatment and research in neuropsychiatric disorders (e.g., ADHD, Conduct Disorders, Tourette Syndrome and Autism). Research on efficacy and safety of medication treatment for psychiatric disorders in youths is a main focus of the department's research agenda. In the summer of 2008, the Eli Lilly Endowed Chair for Paediatric Psychopharmacology was established at CAP focussing on clinical research with psychotropic compounds in children and adolescents (Prof Ralf W. Dittmann). The CAP is equipped with 52 inpatient beds distributed in 4 units/wards plus an outpatient facility. The Department's outpatient clinic has about 400 new child and adolescent ADHD patients per year. The clinical and research teams include a total of 18 child and adolescent psychiatrists, and 12 senior psychologists and 2 post-doctoral staffs.

- 4. The School of Pharmacy, University College London** (SoP, UCL) is the only institution in the UK entirely devoted to teaching and research in pharmacy and pharmaceutical sciences. It has a research track record of international excellence and attracts post-graduate and post-doctorate researchers from all over the world. The Centre for Paediatric Pharmacy Research (CPPR) was established in The School of Pharmacy in April 2002 in collaboration with the Institute of Child Health and Great Ormond Street Hospital for Children. The aim of the Centre is to improve paediatric medicines and in particular, their quality, safety, efficacy and associated ethical policies. In addition, the specialist resources of universities and hospitals nationwide are utilised collaboratively to provide a focus for the training of health care professionals in the optimum use of medicines for children. It is the first centre of its kind to be established in the UK.
- 5. The University of Nottingham, (UNOTT)** Division of Psychiatry, is in the leading group of research-led psychiatry departments in the UK. It holds major grants from Research Councils, leading UK charities and governmental sources. It has particular strengths in multi-disciplinary population studies, social psychiatry and epidemiology and evaluations of innovative health care interventions. The Section of Developmental Psychiatry is a leading child and adolescent mental health research centre in the UK (total grant income over £1million in the last RAE cycle) and has an international reputation for delivering high quality research. Key research areas include ADHD, early onset psychosis/schizophrenia and Tourette syndrome using methodologies including developmental epidemiology, cognitive neuroscience/ neuroimaging and translational health services research. The University of Nottingham has close links with the National Health Service (NHS) and has established the Nottingham Institute of Mental Health in partnership with local NHS Trusts to implement evidence based practice and innovative health service research. The Section of Developmental Psychiatry provides leadership of ADHD services for a population of 1 million people in the East Midlands region of England.
- 6. UK Aachen University Hospital** (UKAACHEN) is one of the largest hospitals in Europe. The University has been awarded funding within the Excellence Initiative of the German Federal and State Governments since 2007. As a result of this funding, a formal structure for scientific collaboration between the RWTH and the Research Centre Jülich was established and called the "Jülich Aachen Research Alliance". The alliance currently has three branches, one of which is the "Translational Brain Medicine" branch. The Department of Child and Adolescent Psychiatry (headed by Beate Herpertz-Dahlmann) comprises a day clinic, an outpatient department and clinical wards for children and adolescents with diverse psychiatric disorders. The Child Neuropsychology Section (headed by Kerstin Konrad) specialises specialized in innovative

research into neurobiological mechanisms of developmental disorders as well as clinical and neuropsychological assessments of children with neuropsychiatric disorders such as ADHD, Conduct Disorder, Schizophrenia and Autism Spectrum Disorders. The Department of Child and Adolescent Psychiatry deals with approximately 1800 new children and adolescents with ADHD per year (including both in- and outpatients). In addition, they have a database of more than 2500 children with ADHD including clinical, medication and neuropsychological data.

7. **University College Cork** (UCC) has one of Ireland's most successful and active research programmes. UCC has research income which is consistently one of the highest in the country and it has an outstanding international reputation in research across all faculties. The School of Pharmacy provides world class standards in teaching and research and is recognised for excellence in both areas in Ireland.

UCC has a strong research ethics governance structure promoting an ethical approach to research across UCC. The Academic Council Research Committee comprises three sub-committees of which one is the Clinical Research Ethics Committee of the Cork Teaching Hospitals (CREC) dealing with clinical research involving human participants, their identifiable data or tissue. This Committee is recognised by the Department of Health and Children as a nationally competent ethics committee for clinical trials under the European Communities and provides a wealth of experience on ethical issues of clinical trials. Suzanne McCarthy was an expert member of the Great Ormond Street/Institute of Child Health (GOSH/ICH) research ethics committee for a number of years and has dealt extensively with ethical issues in paediatric clinical research. UCC has also been involved previously in ethical aspects of European projects.

8. **Katholieke University of Leuven**, (KU LEUVEN) UPC-Psychiatric Centre is a large University Hospital based psychiatric service, specialising in top level clinical care. The UPC Child and Adolescent Department is headed by Prof. M. Danckaerts. The main areas of research at the centre are Schizophrenia, Depression, Epidemiology, Autism and ADHD. The clinical and research child and adolescent team consists of 9 child and adolescent psychiatrists and 10 trainees. The Child and Adolescent Psychiatry Department consists of 70 inpatient places, a liaison child psychiatry service, 8 forensic places, some outreach facilities, an Autism reference centre and a large outpatient clinic. More than 600 new patients are seen in the outpatient clinic and a specialist ADHD outpatient programme is also run. All children and adolescents are diagnosed according to a standard protocol. Some 200 new cases are seen each year in this clinic, of which approximately 60% are diagnosed with ADHD. Psycho-education and Parent Management Training programmes are also available as well as medication titration and monitoring modules. The ADHD outpatient service has participated in several international multisite clinical trials over the past decade. Recently, a teacher behaviour modification tool has been developed at the centre.

9. **The University of Cagliari** (UNICA) Department of Neuroscience is a leading Italian institution for basic and clinical psychopharmacology research. The *Centre for Pharmacological Therapies in Child & Adolescent Neuropsychiatry*, headed by Professor Alessandro Zuddas, is specialized in clinical care and research in neuropsychiatric disorders in children and adolescents. The clinical research is embedded in the Unit of Child Neuropsychiatry at the Cagliari University Hospital. The Unit has inpatient, day hospital and outpatient facilities and receives about 700 new child and adolescent patients referrals per year. For several projects, UNICA has developed a partnership with the Istituto Superiore di Sanità (ISS). The ISS is the scientific advisory body of the National Health System in Italy, collaborates with the Ministry of Health in preparing and implementing scientific and health planning, promotes programmes and clinical trials consistent with the

objectives of the National Health Plan and acts as a coordinator of medicines for paediatric research, surveillance and public health at the national and international level.

10. The Institut National pour la Santé et la Recherché Biomédicale (INSERM) is the French organisation dedicated to health research in France. Prof. Falissard was the Principal Investigator of the MHP study (Mental Health in Prison, 2003-2007). He has been and is co-investigator/methodological advisor on more than 30 research projects that have led to publications in international peer reviewed journals.

He has been the Head of INSERM U669 (PSIGIAM, Paris Sud Innovation Group in Adolescents Mental Health), a laboratory comprising of 110 members, since 2005. Prof. Falissard sits on the scientific boards of many foundations, as well as the Board of the International Journal of Methods in Psychiatric Research and is Statistical Advisor to the European Psychiatry Journal. He is past president of the scientific board of “Faculté de Médecine Paris-Sud” and has co-authored more than 130 papers indexed in the PubMed database.

11. EUNETHYDIS is a network of scientists (animal and human research), clinicians and clinical researchers, cardiologists, pharmacologists and neuroscientists dedicated to the study and treatment of children with Attention Deficit Hyperactivity Disorder (ADHD) or Hyperkinesia. EUNETHYDIS has 40 full members and 120 junior members throughout the EU countries and has held an annual meeting for the last 20 years. Full members of EUNETHYDIS usually hold positions as chairs or heads of department and research institutions. They have all individually contributed both clinically and scientifically to the study of ADHD. Usually members of EUNETHYDIS have at least 20 international peer-reviewed papers on or related to ADHD. EUNETHYDIS has been extremely influential in the care and management of ADHD in European countries and is recognised by institutions such as “The American Academy of Child and Adolescent Psychiatry”, “European Child and Adolescent psychiatry” and the American Psychiatric Association” as the key European organisation on ADHD.

12. Vadaskert Child Psychiatry Hospital (VCAH) and outpatient Clinic is one of the leading Institutes of Hungarian child and adolescent psychiatry. To date, it is the only Institute in Hungary specialized in the treatment and intervention of mental disorders in children. Since its founding in 1993, more than 25,000 patients with different mental disorders and from different geographical origins within Hungary have been treated. With regard to the patients, the hospital manages approximately 5 to 10 new patients with ADHD a week and about 500 patients taking ADHD medication with regular check-up's. In addition to the clinical work, the Vadaskert Child Psychiatry Hospital is a highly respected research and educational centre.

13. Therakind is a paediatric healthcare company with strong drug formulation, clinical development and regulatory capabilities. Focusing on paediatric medicine, the company has the expertise to develop a product from idea through to regulatory approval. The company identifies niche areas of unmet medical needs and works with other drug development companies on a collaborative basis. Therakind was created in 2006 in collaboration between IPSO Ventures the School of Pharmacy, University of London, to address the significant unmet need for paediatric drugs.

14. The Evelina Children's Hospital (ECH) is attached to St Thomas' Hospital as part of the Guy's & St Thomas' NHS Foundation Trust and together manages all aspects of heart disease from foetal life, through infancy and childhood into adult life. Research takes place into physiological, interventional and surgical aspects of heart disease. There is a large cardiac magnetic resonance unit and echocardiography department. The echocardiography department undertakes all

currently used clinical techniques and is leading on the development of 3-dimensional echocardiography. There is a full electrophysiological service with a special interest in the causes of and prevention of sudden death. There is a large paediatric and adult renal unit that undertakes transplantation at all ages. The paediatric unit has extensive experience in the use of 24-hour ambulatory blood pressure monitoring across the paediatric age range in clinical and research settings

15. The Istituto Superiore di Sanità (ISS) is the scientific advisory body of the National Health System in Italy, namely of the Ministry of Health, the Regions and the Local Health Unit. The funding of the ISS is public, namely coming from the budget of the Ministry of Health or from governmental funding. ISS has scientific, organisational, administrative and accounting independence but its activities are monitored by the Ministry of Health. It undertakes research, experimental, control and training functions in relation to Public Health in Italy. ISS acts as a coordinator of medicines for children research, surveillance and public health actions at the national and international level. ISS is one of key bodies targeting health-related aspects of medicines for children in Italy.

16. University of Southampton (SOTON) Developmental Brain-Behaviour Laboratory has a particular interest in the neuro-developmental basis of Attention Deficit Hyperactivity Disorder. The Director, Professor Sonuga-Barke, has researched extensively in this area focusing on the role of motivational factors such as delay aversion in AD/HD. Experimental studies have explored this across paradigms - memory, cognitive style, self-control, timing and time use. More recently their studies of the relationship between cognitive and motivational factors have led to the adoption of a dual pathway model. His research is currently exploring the relationship between delay aversion, executive function and millisecond timing in causal models of ADHD using genetic, imaging and neuropsychological technologies. Most recently his work has focused on the possible role of default mode network as an alternative site for dysfunction in ADHD. He is currently establishing a new EEG lab to study this phenomenon as it is expressed in very low frequency oscillation in patterns of brain activity.