ABSTRACTS

The Following abstracts represent other papers read in the meeting. They are only published in abstract form as they only represent work in progress or are to be published in full elsewhere.

THE PARADOXES OF DEPRESSION IN ADOLESCENCE

Ann de Braconier-d’Alcantara1, Jan de Mol2 & Jacquerie Florence3

1Centre Thérapeutique pour Adolescents, Child and adolescent department, Cliniques Universitaires Saint-Luc, Université Catholique de Louvain, Avenue Hippocrate 10, 1200 Bruxelles, Belgium; ann.dalcantara@uclouvain.be
2Faculté de psychologie, Université Catholique de Louvain, Louvain-La-Neuve, Belgium
3Cliniques Universitaires UCL saint-Luc, Bruxelles, Belgium

Background: Depression is structurally part of adolescence. It is linked, on the one hand, to the mourning of childhood and the need for parting from those figures who provided love and security in the past and, on the other hand, to the requests addressed to responsible young individuals as they are now invited to become citizens respecting rules and laws.

Subjects and methods: Qualitative research will explain some paradoxes related to depression in adolescence.

Results: Depression in adolescence relates to educational principles when a child is asked to choose and decide for himself rather than being guided by the structured power of well-meaning adults. Access to maturity implies constraints and efforts. In addition, culture influences society's values at a public as well as a private level through the media and the economic system. Culture has created a new status for juvenile depression. Depression scales and massive antidepressant medication distort understanding of juvenile depression.

Conclusions: A clinical-built of depression concerning an adolescent requires a case to case interpretation so as to adapt the therapeutic answer to each individual situation. Same symptoms, even very dangerous ones, can be caused by many different etiologies.

Key words: depression – adolescence – paradoxe - social representation

SCHOOL REFUSAL IN ADOLESCENTS:
INDIVIDUAL AND FAMILIAL CHARACTERISTICS

Véronique Delvenne1, Souskias Estelle2 & Aviva Depauw3

1Université Libre de Bruxelles, Child and Adolescent Psychiatry Department, Hôpital Universitaire des Enfants Reine Fabiola, Avenue Jean-Joseph Crocq Nr 15, 1020 Brussels, Belgium; Veronique.delvenne@huderf.be
2Université Libre de Bruxelles, Brussels, Belgium
3Université Libre de Bruxelles, Brussels, Belgium

Background: School refusal or school phobia is a common anxiety disorder which seems to increase in the adolescent population in our western countries. Few studies have clearly evaluated these adolescents and few elements are proposed to treat them.

Subjects and methods: First, we have made a complete literature review on school refusal or school phobia. Next, we prospectively recruited 20 adolescents with school refusal. We have investigated individual characteristics like anxiety, depression, self esteem and conduct symptoms. In addition, we have evaluated family functioning and past history of psychiatric disorders in parents.

Results: School refusal is one of the most common serious anxious disorder in adolescence with a usual pejorative evolution. Few articles have been published on this topic with formal evaluation of the patients and their families. We will discuss our results in comparison with the literature and we will propose specific therapeutic actions.

Conclusions: More prospective researches need to be conducted to evaluate the adolescent population with symptoms of school refusal particularly in connection with anxiety or depressive disorders and treatment proposals. In addition, particular family organisation and familial anxiety disorders are usually found.

Key Words: school refusal - school phobia - adolescence
A POSSIBLE ROLE OF GUT MICROBIOTA IN THE BEHAVIORAL CONTROL OF ALCOHOL-DEPENDENT SUBJECTS

Philippe de Timary¹, Sophie Leclercq¹, Patrice Cani¹, Sébastien Matamoros¹, Peter Stärkel¹, Frederik Bäckhed², Valentina Tremaroli², Kristin Verbeke³ & Nathalie Delzenne¹

¹Université catholique de Louvain, Department of Adult Psychiatry and Institute of Neuroscience and Louvain Drug Research Institute, Avenue Hippocrate 10, 1200 Brussels, Belgium; philippe.detimary@uclouvain.be
Stärkel Peter: MD, PhD. Université catholique de Louvain, Department of Adult Psychiatry, Institute of Neuroscience and Louvain Drug Research Institute, Brussels, Belgium
²Department of Molecular and Clinical Medicine, University of Gothenburg, Gothenburg, Sweden
³LForCe, Leuven, Belgium

Background: In a recent study, we have shown that clinical symptoms of alcohol dependence such as depression and alcohol-craving were related to increases in gut permeability and inflammation. These observations suggest that the gut could influence behavior. However, the nature of the intestinal processes involved in the change in gut permeability and in inflammation and their relation to psychological symptoms is still unknown.

Subjects and methods: We compared 13 non-cirrhotic alcohol-dependent (AD) subjects hospitalized for a detoxification program with 15 healthy controls matched for age, sex and BMI. Gut permeability was measured using 51Cr-EDTA. Fecal samples were collected to analyze the gut microbiota composition (using pyrosequencing and qPCR) and metabolomic analysis (GC/MS) was used to assess the gut microbiota function. The inflammatory pathways that were stimulated by gut-derived bacterial products were also analyzed in peripheral blood mononuclear cells (PBMC) at the mRNA level. We also used self-reported questionnaires to assess the psychological symptoms of these patients (depression (BDI), anxiety (STAI) and alcohol craving (OCDS). The analyses were performed twice, at the first day of alcohol withdrawal and after 18 days of abstinence.

Results: Gut permeability was higher in AD subjects and was associated with specific alterations in the gut microbiota composition and function. The leaky gut allowed the translocation of gut-derived bacterial toxins such as lipopolysaccharides (LPS) and peptidoglycans (PGN) to the systemic circulation. Correlation analyses revealed that the gut permeability was strongly related to psychological symptoms of alcohol-dependence, at both times of withdrawal. The bacterial toxins simulated their Toll-like receptors in PBMCs and activated specific inflammatory pathways that were found to correlate with alcohol-craving. The alcohol withdrawal induced a decrease in gut permeability and in LPS-associated inflammatory pathways. However, 18 days of abstinence did not restore the gut microbiota composition, except in some specific species.

Conclusion: These observations suggest that alterations at the level of the gut microbiota influence the gut permeability and activate specific inflammation pathways that are related to psychological symptoms of alcohol-dependence. Altogether these observations are consistent with a role of inflammation as one mediator of a gut-brain communication in AD patients.

Key words: alcohol-dependence - gut microbiota – inflammation - intestinal permeability - alcohol-craving

SENSORY PROCESSING IN YOUNG PATIENTS WITH AUTISM SPECTRUM DISORDERS (ASDS): A STUDY OF THE CORRELATION BETWEEN THE SENSORY PROFILE AND THE CLINICAL EVOLUTION OF THE ASDS

Razvana Stanciu & Véronique Delvenne

Université Libre de Bruxelles, Child and Adolescent Psychiatry Department, Hôpital Universitaire des Enfants Reine Fabiola, Avenue Jean-Joseph Crocq Nr 15, 1020 Brussels, Belgium; rstanciu@ulb.ac.be

Background: Sensory abnormalities have been reported since the first descriptions of ASDs. In the last years an increasing interest in these symptoms has arisen, around the question of their possible part in the physio- and psychopathology of autism as well as their potential use as early alerting signs. They have been recently added to the diagnostic criteria of the DSM-5. This on-going study investigates the relation between sensory processing anomalies and the social/communication symptoms in ASDs in a twofold design.
Subjects and methods: The cross-sectional part of the study investigates the patterns of sensory abnormalities in 50 children with ASDs (age 2.5 to 5 years) assessed with the Sensory Profile questionnaire. As secondary outcomes, we are looking for differences between these patterns in the severity of social and communication symptoms (social affect score in the ADOS, Vineland Adaptive Behavior Scale) and in the global development impairment (PEP-R). Among these children, those aging 2.5 to 3.5 years will be enrolled in a follow-up study. The different measures will be repeated after two years, to show whether different clinical trajectories can be observed and whether they are associated with different sensory patterns in the initial clinical presentation.

Results: First results of the cross-sectional part reveal that different patterns of sensory anomalies are correlated to different degrees in the severity of ASDs and tend to discriminate different populations in children with ASDs.

Conclusions: Sensory anomalies are core symptoms of ASDs and are an essential parameter in the early evaluation process of very young children with ASDs.

Keywords: autism – sensory – severity - early signs

NEUROLEPTIC MALIGNANT-LIKE SYNDROME AFTER SURGERY IN A PATIENT TAKING LEVODOPA

Vito Infante

Psychiatry resident, Department of Psychiatry, Université Catholique de Louvain, Cliniques Universitaires St. Luc, Av. Hippocrate, 1200 Bruxelles, Belgium vito.infante@uclouvain.be

Background: We present a case of a patient with symptoms indicative of neuroleptic malignant syndrome after sudden dopaminergic agents withdrawal.

Subjects and methods: A search of the literature up to December 2013 was performed using the MEDLINE search engine. English-language articles, with no restriction regarding the type of articles, were identified using the search terms: levodopa withdrawal, neuroleptic malignant-like syndrome, neuroleptic malignant syndrome, Parkinson's disease.

Results: A 85-years old male patient with an history of Parkinson's disease was admitted via the emergency department for an Acute abdomen and subsequently found to have appendicitis. Following the emergent Appendectomy his usual dopaminergic agents (l-dopa - pramipexole) were held due to complications following the surgery. The consultation/liaison psychiatrist was called following agitation and acute confusion. Upon examination the patient was found to have acute confusion, fever of 39°C, rigidity, elevated creatinine kinase (>2000 Ul/L) and acute renal impairment due to rhabdomyolysis. The symptoms were consistent with neuroleptic malignant-like syndrome (NMLS) likely associated to L-dopa withdrawal. The patient was immediately transferred to the Intensive Care Unit were Nasogastric L-Dopa was the therapy that was initiated.

Conclusions: We want to underline the importance of the pathophysiological mechanism that implies the reduction of availability of dopamine for the D-2 receptors, that can follow the interruption of dopaminergic medication in patients suffering of Parkinson’s disease. Early recognition and quick decision making can increase the outcomes of a condition that still has a fatal potential. We believe that this can be a useful tool for consultation/liaison psychiatrists in the general hospital.

Key words: levodopa - neuroleptic malignant-like syndrome - substance withdrawal syndrome