This presentation discusses the advantages of integration of pharmacological, psychological and other treatment modalities in the management of impaired sexual arousal and proposes a stepwise integrated approach to this disorder in both males and females.

CS01.03

Integrated treatment of female and male orgasmic disorders

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For about a century male ejaculatory disorders were considered to be caused mainly by psychological disturbances. However, since the 1990s, daily SSRI treatment has become very popular to delay ejaculation in men with lifelong PE. In addition, research has shown that it is likely that the persistent occurring very short ejaculation times of less than 1 minute in lifelong PE are related to neurobiological dysfunction in the central nervous system. On the other hand, epidemiological studies have shown that "complaints" of PE may not only occur in men with very short intravaginal ejaculation latency times (IELTs) but also in men with normal and even long ejaculation latency durations of, for example, 20 minutes. As their complaints are probably highly psychologically determined, treatment by counseling, psychotherapy of other non-medical interventions have been suggested. Integration of drug treatment, psycho-education, counseling and psychotherapy increases the chances for better coping mechanism in men affected by ejaculatory and orgasm problems. For female orgasmic disorders, particularly anorgasmia, medication is not yet available. Primary female anorgasmia is difficult to treat as multiple factors are involved in its pathophysiology. Neurobiological and pharmacological research is needed to develop drug treatment for those women who would like to alter this state. But with or without drug treatment, counseling may be of great value and contribute to better coping styles.

Symposium: Animal models of CNS disorders. Effects of drug treatments

S06.01

Gene-environment interaction in an animal model of depression

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Background: Both genes and environment play a role in depression. Data indicate that in addition to monoamines, other endogenous compounds, such as neuropeptides, as well as hippocampal cell loss/neurogenesis may be important in pathophysiology and treatment of depression. Finally, it is not clear whether early intervention could alleviate or prevent the disorder. Consequently, we studied neuropeptides in animal models: (i) a genetic model, the Flinders Sensitive Line (FSL) rat and their controls, FRL line, (ii) an environmental model, early maternal separation that mimics early life trauma in humans - experiences that predict adult life psychopathology, and (iii) maternal separation superimposed on the genetic FSL model

Methods: Behavior was studied when the animals reached adulthood, and brain neurochemistry and cell proliferation postmortem. On postnatal days (PND) 2–14, FSL and FRL pups were maternally

separated for 180. Escitalopram or vehicle were started on PND 44. Porsolt swim test was done on PND 64-65.

Results: baseline FSL-FRL differences were found in the Porsolt swim test and in brain neuropeptides, in particular NPY and CGRP in selected brain regions. Cell proliferation was also affected. Moreover, maternal separation and escitalopram also differentiated between the strains

Conclusions: Both genes and environment play a role in "depression" but the consequences of early life events are more deleterious in genetically vulnerable individuals. Neurochemical, in particular NPY and CRH, and cell proliferation changes indicate that we may have identified some biological correlates of depression. potential strategy to alleviate adult life psychopathology.

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S06.02

High and low anxiety rat model: Emotionality, neuropeptides and $\operatorname{aggression}^{\bigstar}$

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The selective breeding of Wistar rats for high (HAB) versus low (LAB) anxiety-related behaviour resulted in two rat strains which have been validated as a suitable animal model for studying neurochemical and genetic mechanisms underlying anxiety- and depression-related disorders. The robust differences in the anxiety phenotype are accompanied by alterations in neuroendocrine and neuronal stress-responsiveness to various stimuli, and in relevant brain neurotransmitter systems including arginine vasopressin (AVP), CRF and serotonin, and by impaired hippocampal neurogenesis. Manipulation of the endogenous vasopressin or oxytocin systems reveals their significant involvement as neuromodulators of anxiety behaviour in HAB rats.

HAB and LAB rats also provide an excellent model for studying interactions between early environmental factors (i.e. early life stress: prenatal stress, maternal separation) and the genetic predisposition for either high or low stress susceptibility. Thus, differential, partly opposite effects of prenatal or postnatal stress on adult emotionality, stress coping, neuropeptide expression patterns within the hypothalamus or hippocampal cell survival have been found in adult HAB and LAB rats.

Finally, selection for low trait anxiety in LAB rats goes along with the development of high intermale aggression during the resident-intruder test, and with a generally high neuroendocrine and neuronal response to social stimuli. Therefore, LAB males may develop as a promising animal model for studying neurobiological mechanisms of pathological aggression and its link to the genetically determined level of anxiety.

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S06.03

The nitric oxide pathway in anxiety and stress-related disorders

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Affective disorders are widely distributed disorders with severe social and economic effects. Strong evidence underlines that effective treatment helps to restore function and quality of life. Unfortunately,

patients with major affective disorders respond variably and, at times, unpredictably to different treatments, which underline the need of alternative approaches. Due to the action of most modern antidepressant drugs, serotonergic mechanisms have traditionally been suggested to play major roles in the pathophysiology. However, recent clinical evidence strongly suggests involvement of neurodegenerative pathology in the disease. Since there is accumulating evidence that the novel neurotransmitter NO acts as a neuromodulator, and participate in several sub-cellular processes, such as cellular memory and neuronal toxicity, nitrergic pathways may have an important role in hippocampal degenerative pathology and cognitive deficits seen in patients with affective disorders.

A few clinical and several pre-clinical studies, strongly suggests involvement of the nitric oxide (NO) signalling pathway in these disorders (Harvey 1996). Several of the conventional neurotransmitters, including serotonin, glutamate and GABA, are intimately regulated by NO (Wegener et al. 2000). Interestingly, distinct classes of antidepressants (Imipramine, Tianeptine, Citalopram and Paroxetine) have been found to modulate the NO level in the living rat hippocampus in clinically relevant doses (Wegener et al. 2003). Moreover, our recent work, using selective inhibitors of phosphodiesterase 5, indicate that the whole NO signalling pathway may play a major role in the behavioural and neurochemical effects observed.

The NO system is therefore a potential target for antidepressant and anxiolytic drug action in acute therapy as well as in prophylaxis. **Keywords:** Depression, Nitric Oxide, Neurotransmitter,

References

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Symposium: Quality of care in emergency psychiatry: New perspectives

S07.01

Therapeutic alliance in emergency psychiatry: A newly validated questionnaire

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The development of a therapeutic alliance with the patient is a challenge for emergency psychiatry. The therapeutic alliance could reduce the number of non-voluntary admissions and of compulsory administration of medication. Moreover, a better dialogue with the

patients could increase the patients' compliance with ambulatory care, and could prevent inutile hospitalizations. To evaluate the level of satisfaction with the emergency psychiatric treatment we created and validated a 10-item questionnaire. The questionnaire focuses on the "human quality" and the empathy of the psychiatrist, but also on his professional skills, the delay in the waiting room before medical evaluation, the level of satisfaction concerning the proposed care and a comparison between psychiatrists, nurses and the security staff. The same questionnaire is proposed to the patients and to the psychiatrists. The validation is still running and focuses on around 5000 patients admitted in emergency during one year (June 2007-June 2008). Preliminary results are discussed, taking into account diagnosis and differences between patients and psychiatrists about their therapeutic alliance.

S07.02

Specific staff educational crisis intervention for the management of violent behaviour in emergency - The interest of a follow-up study?

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The interest of educational programs concerning crisis intervention in the managament violent behaviour remains a challenge for emergencies departments. A preliminary study done in Geneva (Caihol et al., 2007) showed a significant reduction in violent behavior during 5 months in emergency psychiatry, after the introduction of a specific educational program. The aim of this study was to evaluate the impact of a specific staff educational crisis intervention on managing violent behaviour after the end of the 5 month planned study. Thus, two year after the initial study, we re-evaluated the impact of the educational program by another project focusing on the management of agitation in emergency. We included all patients admitted in emergency during a same 5-month period (N= around 2000 patients), in order to determine if the promising initial published data could be extended on long term? The percentage of patients with violent behaviour will be compared with the data of the previous study, before and after educational programs. The results will be correlated with different factors which could influence the data: sociodemographic factors, diagnosis, staff characteristics.

Cailhol L, Allen M, Moncany AH, Cicotti A, Virgillito S, Barbe RP, Lazignac C, Damsa C. Violent behavior of patients admitted in emergency following drug suicidal attempt: a specific staff educational crisis intervention. Gen Hosp Psychiatry 2007;29: 42-44.

S07.03

The impact of a specific diagnosis and intervention program for managing patients with suicidal thoughts and behaviour

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Quality of care in emergency psychiatry is correlated with rapid diagnose, application of validated clinical guidelines for emergencies and focus on therapeutic alliance. We propose a specific diagnosis and intervention program for the management of patients with suicidal thoughts and behaviour. The specificity of this program involves the evaluation of the level of suicidal risk, the lethality of