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General Summary

Our research activities cover a wide range of topics: disorders at the psychologic and biologic levels, from childhood and adolescence, through adulthood, to the senile period. Sociologic, psychologic, physiologic, and biochemical methods were used.

Research Activities

Psychopathology, psychotherapy and child study group

We have been studying in the fields of psychotherapy, psychopathological and, child psychiatry. In our study on the relationship between developmental disorder and personality disorder, we published a hybrid hypothesis, a hypothesis that bridges the relationship between developmental disability and personalities. We have been studying the understanding and treatment strategies of various diseases; A Study on the Relationship between Religion and Psychotherapy (Ono) Investigation of attention function comparing general psychiatric disorder and developmental disorder (Okino), Long-term prognostic study of borderline personality disorder (Onoda Onoda), Family to ASD long-term withdrawal case Therapeutic Approach (Sugihara), etc. In child psychiatric research, we studied the application of dialectic behavioral therapy to developmental disorders since adolescence, prepared a manual and prepared for enforcement. It was. In addition, in the scientific research conducted by the Ministry of Health, Labor and Welfare, "Survey on Child psychiatrists' involvement with support for intellectual and developmental disabled people in behavioral disorder" was the second year. In this research, a questionnaire survey was conducted for member doctors of the Japan Child and Adolescent Psychiatric Association for the purpose of clarifying to what extent the child psychiatrist has involvement and what kind of difficulties are involved in the disability welfare field. As a result of this survey, nearly half of the child psychiatrists in this field covered, but they also felt various difficulties, and it is necessary to expand specialized training, need for education of staff, enhancement of facilities facilities, medical cooperation These four points of securing the system were considered important in the future.

Morita therapy group

In cooperation with psychotherapists of other schools such as cognitive-behavioral ther-

apy and psychoanalysis, we have been developing programs and materials to train young psychiatrists in order to master the basic techniques of the clinical interview. We continued the following studies this year: practical research towards OCD with Autistic Spectrum Disorder, practical research towards the application of Morita therapy to the patients in adolescence and the patients with 「Hikikomori (withdrawal)」, the psychopathology of social anxiety disorders, factors in the recovery of patients with depression through inpatient Morita therapy, and the application of Morita therapy to the field of palliative medicine.

Psychopharmacology group

In basic research, we performed the following studies in rodents: 1) effect of novel psychotropic on monoamine neurotransmission using microdialysis and radioimmunoassay technique, 2) formation mechanism of drug addiction, 3) neural basis of addiction-related impulsivity, and 4) development of novel anti-craving agent (the final 3 subjects were performed in collaboration with the NTT Communication Science Laboratories and the Department of Psychology, Senshu University). In clinical research, we performed the following studies in humans: 1) the developmental and the psychological and social predictors of recovery in patients with schizophrenia study, 2) regulation of the salience network with antipsychotic agents via dopamine D2/3 receptors, 3) qualitative research on adherence in patients with schizophrenia, 4) the effect of modified electroconvulsive therapy on regulatory factors for gene expression, and 5) symptomatology in menstruation-related mental disorders, atypical psychosis, and acute psychosis. Integration between basic and clinical research is a fundamental concept of the Psychopharmacology group.

Psychophysiology group

Studies examined: 1) changes in sleep structures by cognitive behavioral therapy for insomnia using the cyclic alternating pattern method (CAP), 2) the empirical research regarding the efficacy of the group cognitive behavioral therapy for primary insomnia and depression, 3) The clinical research using MSLT in terms of hypersomnias of central origin, 4) The investigations of bio-markers of fatigue for obstructive sleep apnea syndrome.

Psychogeriatric group

We are currently undertaking a several researches investigating neural basis of neuropsychiatric symptoms and social functions in patients with neurodegenerative disorders and other psychiatric disorder among elderly people using neuropsychological testing, neuroimaging methods such as brain MRI and SPECT, and genetic testing. One study focused on compensation mechanism of anosognosia in Alzheimer's disease (AD), and investigated neural correlates of anosognosia in AD. As a result, we revealed that anosognosia in AD could be correlated with executive dysfunction as well as functional compensation through semantic memory system. Another study focused on effect of DNA methylation on the pathogenesis of AD. Our results suggest that DNA methylation in the NCAPH2/LMF2 promoter region can be a useful biomarker for the diagnosis of AD and amnesic mild cognitive impairment (aMCI), which is associated with hippocampal atrophy through apoptosis. We are going to investigate further impacts of these mechanisms on

patients' behavioral and psychological symptoms of dementia.

General hospital psychiatry group

In a study of interventional therapy based on cognitive-behavioral therapy aimed at preventing recurrences of depression, a computer system and sleep evaluation methods were introduced in addition to a previous evaluation system for more effective presentations and for more precise estimation, respectively. Furthermore, an investigation of new indications for this intervention for atypical depression, bipolar depression, and insomnia was performed. Another study investigated the issues associated with mental care services for patients with digestive tract cancers.

Clinical electroencephalography group

We tried interpretation based on Neo-Jacksonism (Ey H) about the cases that presented the psychotic symptoms associated with epilepsy. Furthermore we reported changes in serum concentrations of AEDs (especially new-antiepileptic drugs) during pregnancy of epileptic patients. A study was performed to prevent the recurrence of depression in patients with epilepsy. We examined the safety and efficacy of psychotropic drugs in several forms of psychosis associated with epilepsy.

Clinical psychology group

We have continued to discuss and study psychotherapeutic processes and the treatment techniques of cognitive behavior therapy, Morita therapy, relief care, psycho-oncology, and social skill training. We have also examined the characteristics of developmental disorders and higher brain dysfunctions through psychological assessments. We invited Dr. Toshikazu Shinotake at a clinical conference and study 'Reading data from psychological tests for developmental disorders-with a focus on WAIS-III', and how to assess them in clinical scenes. Furthermore, we trained graduate students of a clinical psychological course.

Publications

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