

SYLLABUS

Program	Medicine
TRACK	NEUROSCIENCES
COURSE	Developmental Neuropsychobiology and Related Diseases
CODE AND CREDITS	33532-02
HOURS	30
TERM:	Starting in 2016/1

OBJECTIVES: At the end of the course, students will be able to:

- Assess the impact of neurological diseases and mental disorders / psychiatric manifestations that occur in childhood and adolescence;
- Understand the normal development of children;
- Be familiar with development assessment tools;
- Be familiar with physiopathogeny, signs, symptoms and psychodynamics of most common neurological diseases and psychiatric disorders in childhood and adolescence;
- Be familiar with the clinical and laboratory diagnosis and diagnostic imaging methods of the most common neurological diseases and psychiatric disorders that occur during childhood and adolescence;
- Be familiar with the treatment of most common neurological diseases and psychiatric disorders that occur during childhood and adolescence.

COURSE DESCRIPTION:

The course will provide students with insights into the diagnosis of normal child development and recognition of neurological and psychiatric disorders that may affect their development.

METHODOLOGY:

Professors will make use of multimedia resources to teach the course in class, but the more practical activities will employ different teaching / learning models. In practical activities, professors will use videos and other resources for the development of skills for diagnostics.

- Welcome by professors and introduction to the course;
- Conference: Revisiting the normal development of the central nervous system and its associated disorders;
- Introduction: The assessment of development: an overview within the historical context;
- Practical activities: Scales of Infant Development;
- Prematurity and Low birthweight: implications on neurodevelopment;
- Practical activities: Premature infant follow-up;
- Misbehavior: Psychosis? Mood Disorders? Disruptive Disorders?;
- Practical activities: Clinical cases;
- Autism Spectrum Disorder - from Development to Adulthood;

Department's Stamp and Signature:

Av. Ipiranga, 6690 – Building 60 – Office 302
 Zip Code: 90619-610 – Porto Alegre – RS
 Phone: 51 3320.3015
 Email address: medicina@pucrs.br
www.pucrs.br/medicina

- Practical activities: Most common scales, Observation Protocols, "clinical vignettes" and videos on stimulation and therapeutic work;
- Effects of Bullying and cyberbullying;
- Practical activities: Dealing with bullying in clinical practice;
- ADHD as a neurodevelopmental disorder: neurobiology and associated factors;
- Practical activities: Diagnostic Scales, Neuropsychological Assessment - some executive functions and attention instruments;
- Impact of Epilepsy and malnutrition on developing CNS;
- Practical activities: Semiology of Seizures (video session);
- Sleep and sleep disorders in childhood and adolescence;
- Practical activities: Polysomnography: clinical cases;
- Understanding Elimination Disorders;
- Practical activities: From diapers to underwear (options / resources to assist children), psychotherapy and pharmacotherapy (discussion);
- The influence of technology on development and relationships (social networks, dating apps, relationships in the digital era);
- Practical activities: technology as a resource for rehabilitation and stimulation of children;
- Tics and OCD: concepts and circuits;
- Practical activities: video session;
- Neurobiology of social rejection and loneliness;
- Practical activities: case discussion;
- Anxiety disorders;
- Practical activities: Different approaches to psychotherapy.

BIBLIOGRAPHY:

• BASIC:

1. - VOLPE, J. J. Neurology of the newborn Saunders. (última edição disponível).
2. - REY, Joseph M. IACAPAP - Textbook of Child Neurology and Adolescent Mental Health. (ed), 2012, Australasian Psychiatry. (<http://www.iacapap-textbook-of-child-and-adolescent-mental-health>)
3. - WILEY John & Sons. J Reed and J Warner-Rogers. Child Neuropsychology: Concepts, Theory and Practice. New York: John Wiley & Sons, 2000.

• COMPLEMENTARY:

1. - REYNOLDS, Cecil; FLETCHER-JANZEN, Elaine. Handbook of Clinical Child Neuropsychology. Norton Colorado: Springe, 2009.
2. - BROWN, KEYNES, LUNSDEN. The Developing Brain. E.U.A: Oxford Press ISBN 9780198547938, 2001.
3. - STILES, REILLY, LEVINE, TRAUNER, NASS. Neural Plasticity and Cognitive Development. E.U.A: Oxford Press ISBN 9780195389944, 2001.
4. - CHARNEY, BUXBAUM, SKLAR, NESTLER. Neurobiology of Mental Illness. 4th ed. E.U.A: Oxford Press ISBN 9780199934959, 2012.
5. - Journals: Developmental Medicine and Child Neurology, Early Human Development, Pediatric Neurology. Ed 1 (ano 2), 2008.

Department's Stamp and Signature:

Av. Ipiranga, 6690 – Building 60 – Office 302
Zip Code: 90619-610 – Porto Alegre – RS
Phone: 51 3320.3015
Email address: medicina@pucrs.br
www.pucrs.br/medicina