

6th World Conference on
NEUROLOGY AND NEUROSURGERY
&
2nd World Congress on
OBSTETRICS AND GYNECOLOGY

March 27-28, 2019 | Paris, France

Neuro-advise: A comprehensive multi-functional clinical decision support system for diagnosis of neurological disorders

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Although neurological disorders are one of the most serious health threats leading to disability and death worldwide, misdiagnosis is a relatively common challenge in neurological practice that can result in inappropriate delivery of healthcare services and long-term adverse outcomes to the patient. Many diagnostic errors can be prevented by a focused neurological examination and a rapid access to diagnostic possibilities. Compared to routine practice, this targeted approach is performed faster and is more precise. NeuroAdvise is a medical application that offers a practical guide to focused examination, differential diagnosis, and step-by-step investigation of neurological syndromes with an artificial intelligent expert system. The application covers most of the clinical syndromes, anatomical lesions, and neurological disorders and can be used by neurologists, neurosurgeons, general physicians and all other healthcare professionals involved in neurological patient care. The main features of NeuroAdvise application including “Clinical

Approach”, “Anatomic Approach”, and “Paraclinical Approach” provide a unique list of differential diagnosis for any patient according to underlying demographic and clinical characteristics. “Clinical Approach” provides a targeted examination program and helps in lesion localization. “Anatomic Approach” helps in evaluation of anatomical lesions. “Paraclinical Approach” helps in interpretation of test results such as neuro-radiological abnormalities. In general, the application helps healthcare professionals in making better clinical decisions and improves neurological patient care.



Biography

Hadi Gharebaghian Azar has completed his MD at 2006 from Shahid Beheshti University of Medical Sciences, Tehran, Iran and achieved Neurology Board Certification at 2012 from School of Medicine, Kermanshah University of Medical Sciences, Iran. He is now assistant professor of Neurology in Kermanshah University of Medical Sciences, Iran. He is the director of NeuroAdvise application, worked on data collection and software development for more than 7 years in collaboration with an IT company in Kermanshah, Iran. He published NeuroAdvise application at September 2018. He has conducted 5 clinical trials in the fields of multiple sclerosis, diabetic polyneuropathy, and ischemic stroke, which are currently in progress.

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