INTRODUCTION

This reading list was prepared by the Chief Examiner with input from other experienced CSCN EEG examiners. The list was prepared to assist candidates in their preparation for the CSCN EEG examination. This list is not intended to be all inclusive and a quick perusal will reveal overlap (or duplication) of some topics. Some individuals will undoubtedly prefer one publication, textbook, or EEG atlas compared to another that covers the same or similar material. It is not the intention of the Examination Board to promote (or exclude) specific references and the following are put forward only as potentially useful sources of information. You may wish to use this reading list in conjunction with the CSCN EEG Examination Board "Outline of Content" to pick up documents.

EEG STANDARDS AND TECHNOLOGY

(Note: Candidates are strongly encouraged to review the published guidelines listed below).

TEXTBOOKS

  - Comment: An excellent "general" EEG technology text BUT NOT useful for important DIGITAL EEG technical aspects (see other references, below)

Review Papers and Selected Book Chapters


- International Organization of Societies for Electrophysiological Technology. Guidelines for Digital EEG. http://www.osef.org/plaatjes/GuidesdigitEEGOSETJG1299RTF%5B1%5D.doc
Canadian Society of Clinical Neurophysiologists  
(CSCN) EEG Examination  

2017 READING LIST


• Harper PF, Sannit TS. A review of International Ten-Twenty System of Electrode Placement. Grass Instrument Company. 1974. (Note: may purchase via www.grass-telefactor.com and follow links to educational literature; alternatively most EEG Laboratories likely have this publication available).


Canadian Society of Clinical Neurophysiologists (CSCN) EEG Examination

2017 READING LIST


  - Comment: This chapter, and particularly the sections on analog-to-digital conversion and digital filters, is particularly well written.


Canadian Society of Clinical Neurophysiologists (CSCN) EEG Examination

2017 READING LIST

• Koutroumanidis M. et al. The role of EEG in the diagnosis and classification of the epilepsy syndromes: a tool for clinical practice by the ILAE Neurophysiology Task Force (Part 2). Epileptic Disord. 2017 Dec 1;19(4):385-437


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PHYSIOLOGY

REVIEW PAPERS


  - Comment: A relatively simple "first read" of a potentially difficult topic that is covered in more depth in other papers/chapters cited below.


- Blumenfeld H. Cellular and network mechanisms of spike-wave seizures Epilepsia 46 (suppl 9): 21-33, 2005


- Gloor P, Ball G, Schaul N. Brain lesions that produce delta waves in the EEG Neurology 1977 27: 326-33

- Amzica F. Physiology of sleep and wakefulness as it relates to the physiology of epilepsy. Journal of Clinical Neurophysiology 2002; 19(6):488-503

  - Comment: A very useful discussion of the anatomy – physiology of the mesial temporal lobe.

REVIEW PAPERS

- Blume, WT. Drug effects on EEG. J Clin Neurophysiol 2006; 23(4): 306-311
  - Comment: This review gives a new nomenclature of ICU EEG patterns, the old terms are still useful for many EEGers and will be accepted for the EEG exam.
Canadian Society of Clinical Neurophysiologists
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2017 READING LIST


EEG REFERENCE TEXTBOOKS

  ○ Comment: very easy to read, succinct text.


EEG ATLASES

Comment: These volumes should be used by candidates to enhance EEG pattern recognition skills.


