**NeuroLogic Exam: An Anatomical Approach to the Neurological Exam Using Video and English or Spanish Audio and Caption Tracks**

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http://medstat.med.utah.edu/neurologicexam

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**ABSTRACT**

A video resource for the Web combining basic science (anatomy) and clinical diagnostic skills (neurology) has been developed by a team of medical students, faculty, and community physicians. The collaborative effort is the result of a collaboration among the clinical sciences while studying basic science as well as a means of targeting medical faculty for students on clinical rotation. The emphasis is on learning to examine, in a logical way, so that by the end of the exam the problem can be localized. Each of the six modules has an introductory module, followed by video cases related to neurology. The video cases are illustrated with videos of patients with abnormal findings. There is self-assessment for each module. Several cases are being developed for students to produce media materials for the program. The final feature is a review of basic neuroanatomy for students given to the source of the contributed material.

**INTENDED AUDIENCE**

• Interns and Residents in Internal Medicine
• Neurology
• Medical Students Learning Diagnosis
• Medical Students Learning Anatomy
• Neurology Students during Clerkship

**POTENTIAL USES IN CURRICULUM**

• Lecture Lecture
• Problem based case
• Production Examination
• Objective Structured Clinical Exam - OSCE
• Language Training

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**TECHNICAL INFORMATION**

- Movie Clips:
  - Movie file size: vary from 200K - 1MB
  - Movie clip length: 5 to 10 minutes
  - Movies can be viewed at twice their original size
  - Images of movies can be enlarged to full size

- Audio and Caption Tracks
  - Versions of the movies exist in English or Spanish
  - Users can choose to have the English audio track, the Spanish audio track, or both
  - Captions are available in both English and Spanish
  - Captions can be turned on or off during playback

- Video Resources
  - Video resources can be accessed independently as they are not linked to the main site
  - Videos are also available for download

- Media Resources
  - Media resources can be downloaded independently of the main site
  - Videos, audio, and caption tracks can be combined to create a single QuickTime movie

- Copyright and Use
  - Materials may be copied, downloaded, and incorporated into other non-commercial teaching materials
  - Users are required to retain copyright to all material and request permission for use
  - Users are asked to provide information about their use of the material

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**MEDIA RESOURCES**

- NeuroLogic Exam
- NeuroLogic CASES
- NeuroLogic Coordination Exam
- NeuroLogic Anatomy
- NeuroLogic Abnormal Exam Quiz

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**COORDINATION**

- Coordination Exam
- Normal Exam
- Abnormal Exam Quiz

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**AURAL AND CAPTION TRACKS**

- Each video clip has audio tracks and captioning options. The captioning options are available in English or Spanish as well as being useful for the many Spanish speaking students in the world.

- How were the audio tracks added to the videos?
- How were the captioning options added to the videos?

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**TECHNICAL INFORMATION**

- How were the movies produced?
  - Movie Assembly: QuickTime Pro
  - Video Compression: Cleaner 5
  - Editing: Adobe Premiere 6
  - Camera: Canon mini DV XL1s
  - Image creation: Adobe PhotoShop
  - LiveStage Professional, an application from Totally Hip Software, Inc., was used to create interactive client-side video quizes

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**Downloadable movies**

- Videos can also be downloaded from the site

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