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Bickerstaff's Neurological Examination in Clinical Practice

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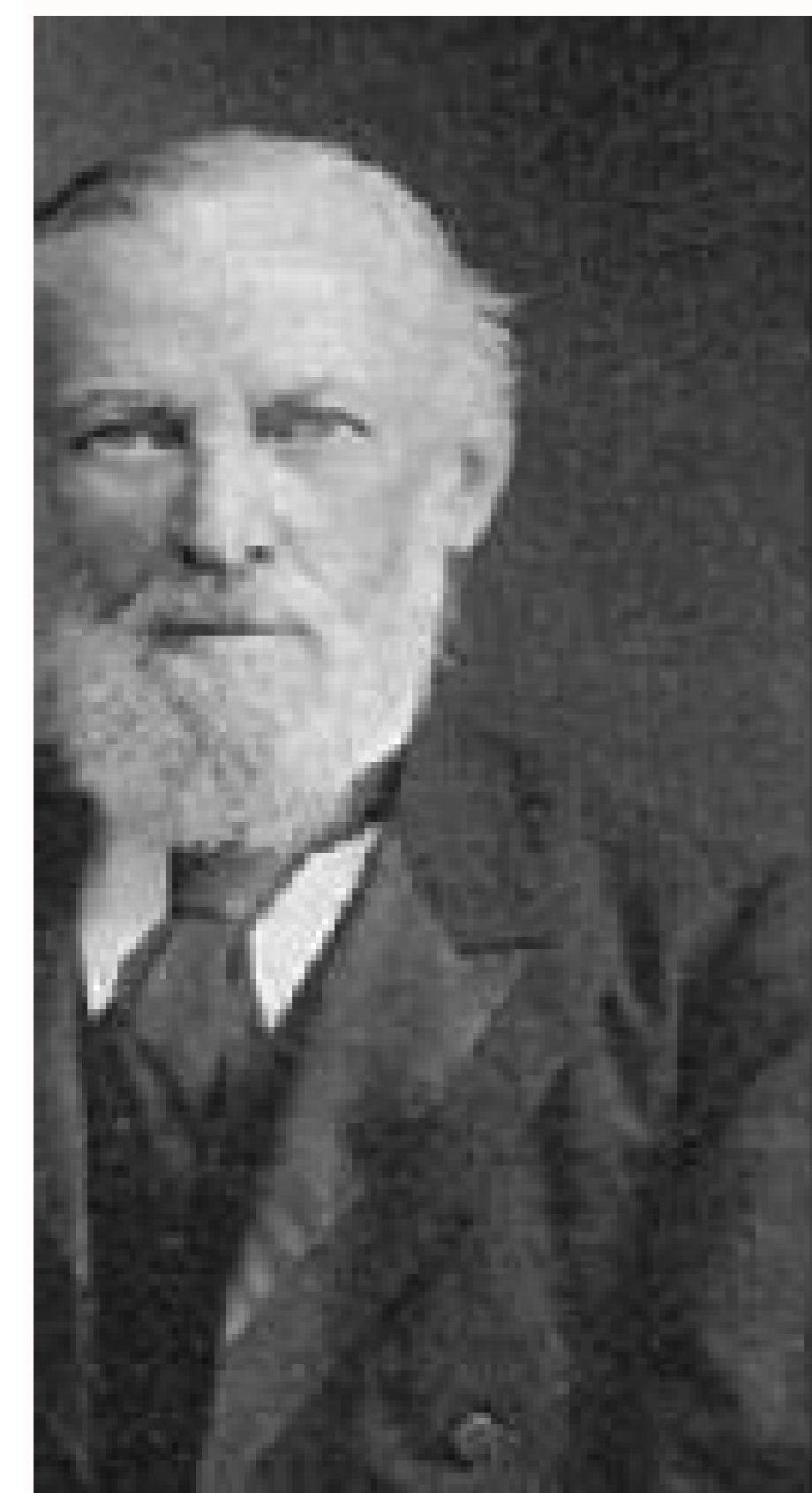
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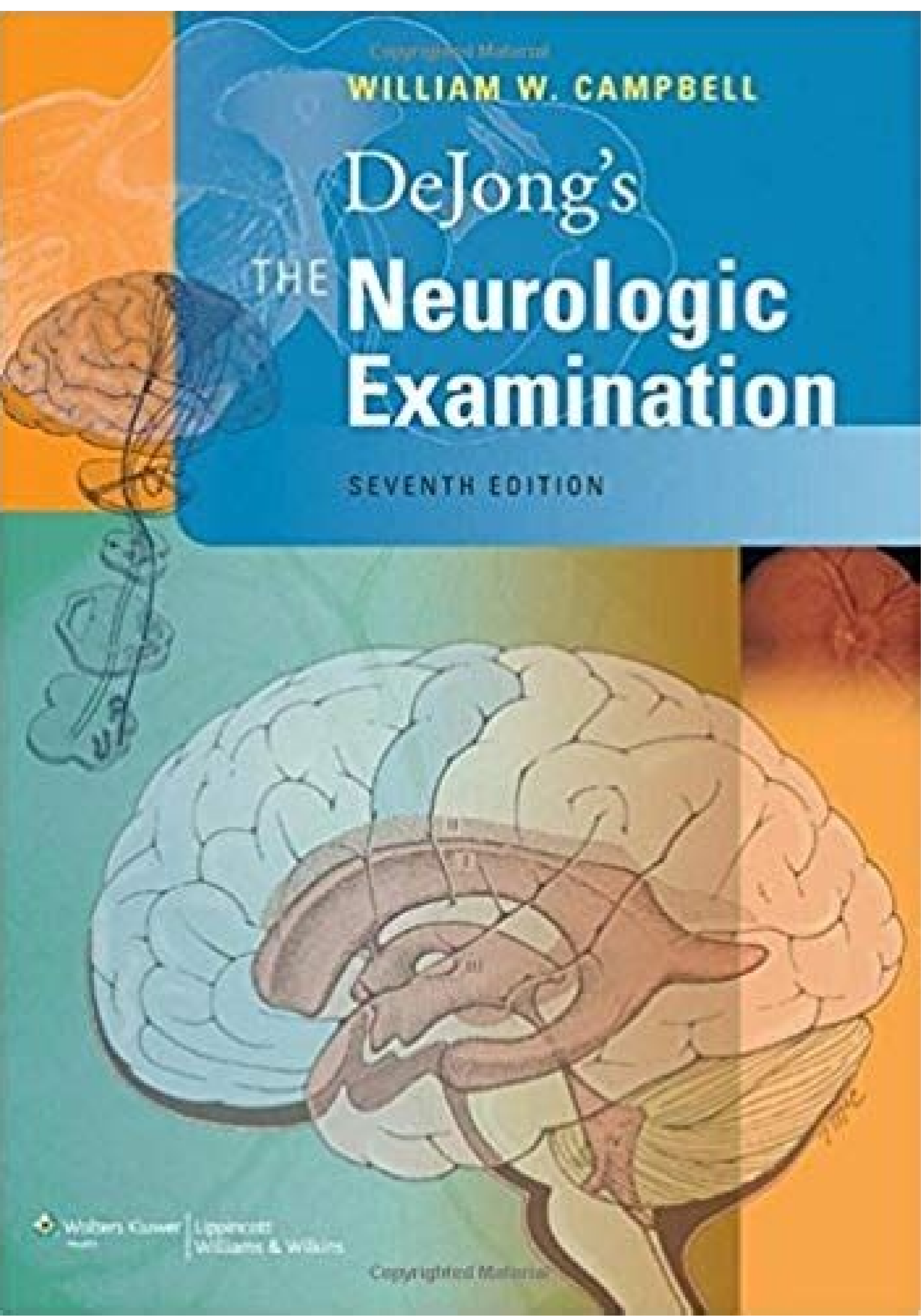
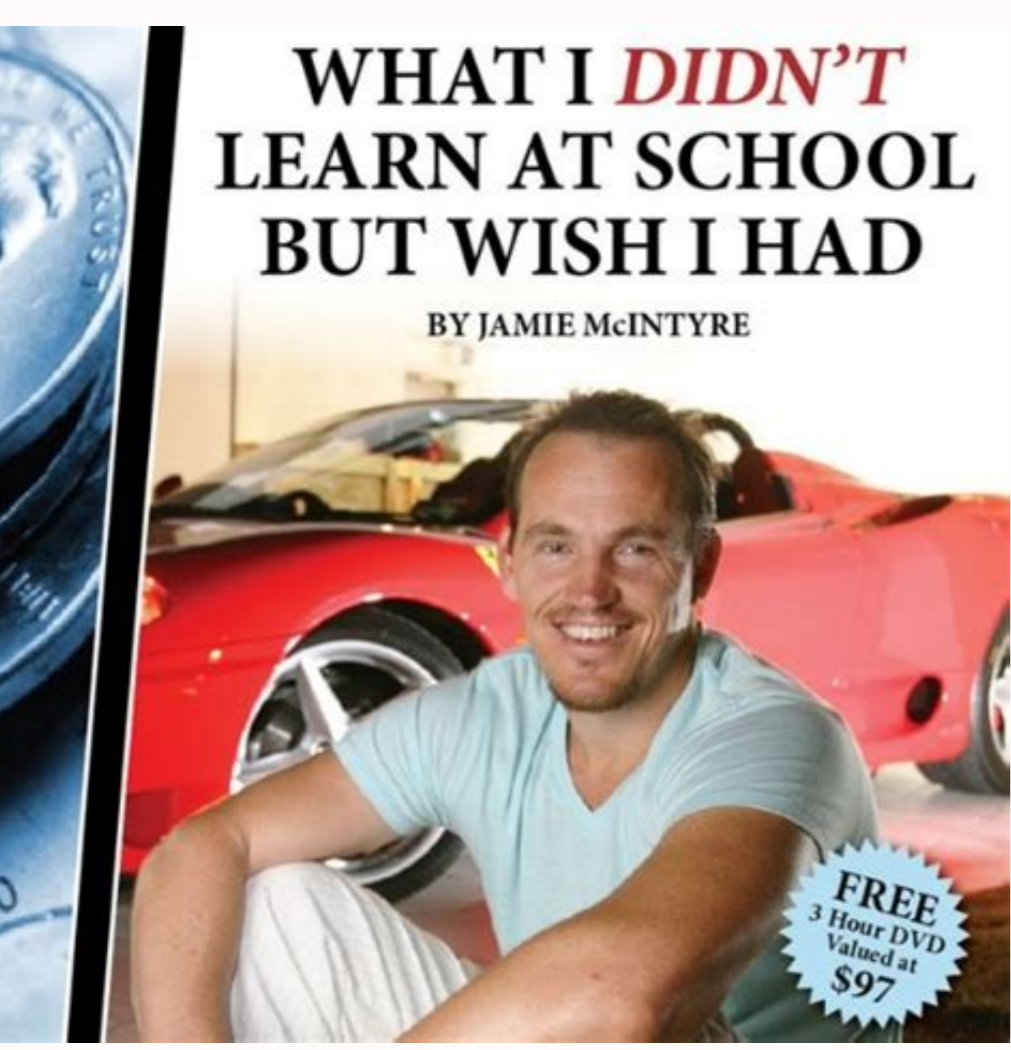


Table 1. Demographic and Clinical Characteristics of the Study Participants

| Characteristic | Mean (SD) | | | | | |
|--|------------|------------------------|------------------------|------------------------|-----------------------|-----------------------|
| | Control | All | C9orf72 Negative | C9orf72 Positive | PLS | PMA |
| No. | 20 | 70 | 59 | 11 | 7 | 4 |
| Sex, No. | | | | | | |
| Male | 12 | 44 | 37 | 7 | 2 | 3 |
| Female | 8 | 26 | 22 | 4 | 5 | 1 |
| Age at onset, y | | 60.4 (12.6) | 60.8 (13.1) | 58.5 (9.4) | 52.4 (13.1) | 66.2 (5.3) |
| Diagnostic delay, mo | | 12.6 (10.1) | 12.7 (10.3) | 12.5 (9.8) | 47.1 (52.7)* | 12.5 (5.3) |
| Age at PET, y | 62.4 (6.4) | 62.1 (12.5) | 62.6 (13.0) | 61.2 (9.2) | 57.5 (12.9) | 67.5 (5.6) |
| Time onset to PET, mo | | 15.2 (10.7) | 15.0 (10.6) | 13.8 (10.2) | 52.3 (52.1)* | 12.5 (5.7) |
| Time diagnosis to PET, mo | | 2.1 (3.5) | 2.3 (3.8) | 1.3 (1.0) | 5.3 (15.1) | 0.1 (0.6) |
| Awaji-Shima diagnostic category, definite/probable/possible, No. | | 32/29/9 | 21/29/9 | 11/0/0 | | |
| Onset type, S/B | | 48/21 | 40/18 | 8/3 | 6/1 | 3/1 |
| FVC, % | | 93.9 (24.0) | 93.3 (21.6) | 96.8 (35.0) | 119.0 (9.3) * | 97.7 (35.0) |
| ALS FRS-R score | | 36.3 (7.2) [n = 46] | 36.2 (6.1) [n = 40] | 32.5 (12.7) [n = 6] | 39.2 (6.9) [n = 4] | 41.2 (3.4) [n = 4] |

Abbreviations: ALS, amyotrophic lateral sclerosis; B, bulbar; FRS-R, Functional Rating Scale-Revised; FVC, forced vital capacity; PET, positron-emission tomography; PLS, primary lateral sclerosis; PMA, progressive muscular atrophy; S, spinal.
* P < .05 compared with all ALS.



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easy-to-locate boxes.Offers evidence-based medical insights in assessing the value of specific tests. Preface The struggle between technology and bedside medicine is nothing new. In his preface to Robert WartenbergcAAA 1953 Diagnostic Tests in Neurology, Sir Gordon Holmes lamented, eAAAThere has been within recent years an increasing
tendency to rely more and more on laboratory, mechanical and other such methods of investigation of patients suffering with symptoms of nervous disorder at the expense of careful clinical observation.eAAA DeJongcAAA The Neurologic Examination PDF In his introduction to the book, Wartenberg devoted five pages to a section titled Clinic versus
Laboratory, in which he observed, eAAAThere is a growing and deplorable tendency to overload neurological diagnostics with mechanical, technical and laboratory procedures and to overemphasize their importance.eAAA the art of diagnosing with the eyes, ears and fingertips is steadily losing ground.eAAA Some of the technology Wartenberg was
exhorting against included: EEG, pneumoencephalography, myelography, EMG, and chronaximetry. Wartenberg quoted Moritz Romberg, who wrote of eAAAthe great aim which we must seek to achieve, the emancipation of medical science from the trammels of mere mechanical technicalities.eAAA DeJongcAAA The Neurologic Examination PDF
Romberg wrote this in 1840. These pioneering clinicians could not begin to imagine the Today and today's clinicians would undoubtedly be equally amazed by technology still to come, assuming that humanity survives to see it. The authors' career arc has witnessed the evolution of cerebral radioisotope scans, pneumoencephalography and
chromosomal analysis of 3T magnetic resonance imaging, pet scans and next generation sequencing. But the neurological examination was an anchor during the evolution of this technology. The clinical meeting provided the basis on which everything else is built. Without it, all this wonderful technology may never have escaped the laboratory. You
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studies and illustrative tables clarify differentials and clinical results, while anatomical and examination illustrations ensure good technique. Distinguished by Incorporation of a Intuitive, clinical focus, which allows you to quickly get practical knowledge that you can apply in practice immediately, containing a full-color style and numerous new images
that highlight important topics in easy-to-find boxes for a successful examination. Features of the N3-Nervous System General Physical Exam5-General Index of the Neurological Examination System6-Global and Microscopic Anatomy of Brain Hemispheres and Focal Neuropathies44- Neck and Back Pain45- Other Musculoskeletal Disorders46- The
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