



MRI Atlas of Pituitary Pathology

By Kevin M. Pantalone DO ECNU CCD, Stephen E. Jones PhD, Robert J. Weil, Amir H. Hamrahian

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MRI Atlas of Pituitary Imaging focuses on magnetic resonance imaging (MRI), the imaging modality of choice for the evaluation of pituitary disorders, since it provides a detailed anatomy of the pituitary gland and surrounding structures, particularly the soft tissues. A basic understanding and interpretation of MRI is important for many clinicians outside of the field of radiology, especially endocrinologists who may receive limited formal training in such areas.

This concise **Atlas** includes a brief review of the principles of magnetic resonance imaging and then reinforces these principles by utilizing a case-based approach to review various pituitary pathologies. The **Atlas** serves as a strong clinical teaching aid for endocrinologists, radiologists, and neurosurgeons in training. It also serves as a great reference for physicians who are currently in practice.

- Provides readers with a simple, visual approach for the evaluation of pituitary images
- Features 160 high-resolution images of the most common to the rarest of disorders affecting the pituitary
- Serves an audience of fellows, residents, and clinicians in endocrinology, radiology, neurosurgery, and anyone involved in the multidisciplinary diagnosis of pituitary disease

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Editorial Review

About the Author

Dr. Pantalone is a board certified Associate Staff Endocrinologist at Cleveland Clinic in Cleveland, Ohio. He currently serves as the Director of Clinical Research in the Department of Endocrinology. Dr. Pantalone is a graduate of Ohio University College of Osteopathic Medicine. He completed his internal medicine residency and endocrinology fellowship at Cleveland Clinic. His clinical focus is on the glycemic management of type 2 diabetes, as well as the diagnosis and management of low testosterone in men, thyroid disorders, and pituitary tumors.

Stephen Jones completed his undergraduate education at Caltech and earned a PhD in experimental physics at Cornell University, and thereafter was on the research faculty at MIT doing plasma physics and astrophysics. His wife, a psychiatrist, encouraged his growing interest in neuroscience and long desire to become a doctor, and he entered medical school at Tufts University. He completed all of his post-graduate training at Massachusetts General Hospital, finishing with a neuroradiology fellowship. For the past eight years he has been a staff member at the Cleveland Clinic, dividing his time between clinical neuroradiology and neuroimaging research.

Dr. Amir Hamrahan is chief Endocrinology in the Medical Subspecialties Institute at Cleveland Clinic Abu Dhabi. He has received his medical degree from Hacettepe University in Ankara, Turkey. He did his internal medicine residency at the University of North Dakota and endocrinology fellowship at Case Western Reserve University. He joined Cleveland Clinic in 2000. He specializes in Endocrinology, Diabetes, and Metabolism and has special interests in pituitary and adrenal disorders. Dr. Hamrahan has published more than 65 peer-reviewed articles, along with more than 70 abstracts and book chapters. He has served as co-author on American Association of Clinical Endocrinologists (AACE) adrenal incidentaloma, Cushing and acromegaly guidelines, and has participated in the international consensus conferences on diagnosis and management of acromegaly. He has served as the principal investigator for a number of pituitary related clinical research studies, and co-directed an annual Pituitary Day Conference in Cleveland from 2005 to 2014. He is a professor of Medicine at the Cleveland Clinic Lerner College of Medicine of Case Western Reserve University.

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