

Optical Coherence Tomography A Clinical Atlas Of Retinal Images

Richard F. Spaide

eye research 64, 1-55, 2018. "Retinal vascular layers imaged by fluorescein angiography and optical coherence tomography angiography" Authors: RF Spaide

Richard Frederick Spaide is an American ophthalmologist and retinal specialist known for his work in retinal diseases and the development of ocular imaging techniques.

Retinal detachment

; Goldman, Darin; Desai, Shilpa J., eds. (2023). Atlas of Retinal OCT: Optical Coherence Tomography (2nd ed.). Amsterdam: Elsevier. ISBN 978-0-323-93104-5

Retinal detachment is a condition where the retina pulls away from the tissue underneath it. It may start in a small area, but without quick treatment, it can spread across the entire retina, leading to serious vision loss and possibly blindness. Retinal detachment is a medical emergency that requires surgery.

The retina is a thin layer at the back of the eye that processes visual information and sends it to the brain. When the retina detaches, common symptoms include seeing floaters, flashing lights, a dark shadow in vision, and sudden blurry vision. The most common type of retinal detachment is rhegmatogenous, which occurs when a tear or hole in the retina lets fluid from the center of the eye get behind it, causing the retina to pull away.

Rhegmatogenous retinal detachment is most commonly...

Choroidal neovascularization

include the feeling of pressure behind your eye. Using modern optical coherence tomography devices, it is possible to detect non-exudative neovascular membranes

Choroidal neovascularization (CNV) is the creation of new blood vessels in the choroid layer of the eye. Choroidal neovascularization is a common cause of neovascular degenerative maculopathy (i.e. 'wet' macular degeneration) commonly exacerbated by extreme myopia, malignant myopic degeneration, or age-related developments.

Cotton wool spots

cotton-wool spots of unknown etiology: management and sequential spectral domain optical coherence tomography documentation" . Clinical Ophthalmology. 5:

Cotton wool spots are opaque fluffy white patches on the retina of the eye that are considered an abnormal finding during a funduscopy exam (also called an ophthalmoscopic exam). Cotton wool spots are typically a sign of another disease state, most common of which is diabetic retinopathy. The irregularly shaped white patches are a result of ischemia, or reduced blood flow and oxygen, in the retinal nerve fiber layer, which is located in the distribution of the capillaries of the superficial layer of the retina. These areas with reduced blood flow reflect the obstruction of axoplasmic flow due to mechanical or vascular causes and the consequential accumulation as a result of decreased axonal transport. This reduced axonal transport can then cause swelling or bulging on the surface layer of...

Annapoorna Kini

textbooks. She is co-author of Atlas of Coronary Intravascular Optical Coherence Tomography, ISBN 3-319-62664-7, Practical Manual of Interventional Cardiology

Annapoorna Kini is an American cardiologist. She is Professor of Cardiology and Interventional Director of Structural Heart Program at Mount Sinai School of Medicine in New York City.

Cellular extensions

layer. As a result, intraoperative optical coherence tomography (iOCT)-guided ERM removal is an alternative approach that may minimize the risk of recurrence

Cellular extensions also known as cytoplasmic protrusions and cytoplasmic processes are those structures that project from different cells, in the body, or in other organisms. Many of the extensions are cytoplasmic protrusions such as the axon and dendrite of a neuron, known also as cytoplasmic processes.

Different glial cells project cytoplasmic processes. In the brain, the processes of astrocytes form terminal endfeet, foot processes that help to form protective barriers in the brain. In the kidneys specialised cells called podocytes extend processes that terminate in podocyte foot processes that cover capillaries in the nephron. End-processes may also be known as vascular footplates, and in general may exhibit a pyramidal or finger-like morphology. Mural cells such as pericytes extend processes...

Outline of cardiology

ultrasound (IVUS): Ultrasonography of a coronary artery. Optical coherence tomography (OCT): Testing through the use of optical scattering for coronary artery

The following outline is provided as an overview of and topical guide to cardiology, the branch of medicine dealing with disorders of the human heart. The field includes medical diagnosis and treatment of congenital heart defects, coronary artery disease, heart failure, valvular heart disease and electrophysiology. Physicians who specialize in cardiology are called cardiologists.

Rabbit

April 2020). "Spectral Domain Optical Coherence Tomography in Awake Rabbits Allows Identification of the Visual Streak, a Comparison with Histology". Translational

Rabbits or bunnies are small mammals in the family Leporidae (which also includes the hares), which is in the order Lagomorpha (which also includes pikas). They are familiar throughout the world as a small herbivore, a prey animal, a domesticated form of livestock, and a pet, having a widespread effect on ecologies and cultures. The most widespread rabbit genera are Oryctolagus and Sylvilagus. The former, Oryctolagus, includes the European rabbit, Oryctolagus cuniculus, which is the ancestor of the hundreds of breeds of domestic rabbit and has been introduced on every continent except Antarctica. The latter, Sylvilagus, includes over 13 wild rabbit species, among them the cottontails and tapetis. Wild rabbits not included in Oryctolagus and Sylvilagus include several species of limited distribution...

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