

ANIM0005: Pathology and Diagnostic Imaging I (Academic Year 2018/19)

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59 items

Pre-reading list for ANI (11 items)

We have devised a pre-term reading list and several exercises in order to help you to familiarise yourself with some key foundations in the field of Neuroimaging before you arrive to start the Advanced Neuroimaging MSc. We strongly encourage you to study the following literature, especially in areas where your expertise is limited, so that you may make a sure start to the course

Maths

<http://www.sosmath.com/algebra/algebra.html> - attempt all exercises in the "Solving Equations" section. <http://www.sosmath.com/calculus/calculus.html> - attempt the following exercises: Those in the "Differentiation" section as far as, and including, "Derivatives of Trigonometric Functions" Those in the "Integration" section as far as "More on the area problem" <http://www.sosmath.com/trig/trig.html> - attempt the exercises in the "Angle Measures" and the title page of the "Trigonometric Functions" section.

Foundation mathematics - K. A. Stroud, Dexter J. Booth, 2009

Book

Imaging Physics

The Basics of MRI

Webpage

Physical principles of medical imaging - Perry Sprawls, c1993

Book

Neuroradiology

The human brain coloring book - Marian Cleeves Diamond, Arnold B. Scheibel, Lawrence M. Elson, c1985

Book

Neuroradiology: the requisites - David M. Yousem, Rohini Nadgir, 2017

Book

Statistics

Statistics at square one - Michael J. Campbell, T. D. V. Swinscow, 2009

Book

Statistics at Square One | The BMJ

Webpage

(C2I103) Neurological Vasculitis - Benjamin (3 items)

Vasculitic neuropathies - Kelly Graham Gwathmey, Ted Michael Burns, Michael Paul Collins, P James Bonham Dyck, 2014-01

Article

Adult primary central nervous system vasculitis - Carlo Salvarani, Robert D Brown, Gene G Hunder, 2012-08

Article

PET Imaging of Atherosclerotic Disease: Advancing Plaque Assessment from Anatomy to Pathophysiology - Nicholas R. Evans, Jason M. Tarkin, Mohammed M. Chowdhury, Elizabeth A. Warburton, James H. F. Rudd, 2016-6

Article

(C2I108) AIDS - Davies (3 items)

HIV, dementia and antiretroviral drugs: 30 years of an epidemic - Hadi Manji, H R Jäger, Alan Winston, 2013-10

Article

HIV-associated neurocognitive disorder - David B Clifford, Beau M Ances, 2013-11

Article

HIV-associated opportunistic infections of the CNS - Ik Lin Tan, Bryan R Smith, Gloria von Geldern, Farrah J Mateen, Justin C McArthur, 2012-07

Article

(C2I107) Central Nervous System Infections - Davies (11 items)

Viral infections of the nervous system - Richard T. Johnson, c1998

Book

Infections of the central nervous system - 2014

Book

Infectious diseases of the nervous system - Larry E. Davis, Peter G. E. Kennedy, 2000

Book

Viral encephalitis in humans - John Booss, Margaret M. Esiri, c2003

Book

Acute Viral Encephalitis - Kenneth L. Tyler, 2018-08-09

Article

Antibody-Mediated Encephalitis - Josep Dalmau, Francesc Graus, 2018-03[Article](#)

Management of suspected viral encephalitis in adults – Association of British Neurologists and British Infection Association National Guidelines - T. Solomon, B.D. Michael, P.E. Smith, F. Sanderson, N.W.S. Davies, I.J. Hart, M. Holland, A. Easton, C. Buckley, R. Kneen, N.J. Beeching, 2012-4

[Article](#)

Emerging Viral Infections of the Central Nervous System, part 1 - Kenneth L. Tyler, 2009-08-01

[Article](#)

Emerging Viral Infections of the Central Nervous System, part 2 - Kenneth L. Tyler, 2009-09-01

[Article](#)

Infections of the nervous system - N. Davies, G. Thwaites, 2011-03-08

[Article](#)

Adjunctive dexamethasone in bacterial meningitis: a meta-analysis of individual patient data - Diederik van de Beek, Jeremy J Farrar, Jan de Gans, Nguyen Thi Hoang Mai, Elizabeth M Molyneux, Heikki Peltola, Tim E Peto, Irmeli Roine, Mathew Scarborough, Constance Schultsz, Guy E Thwaites, Phung Quoc Tuan, AH Zwinderman, 2010-03

[Article](#)**STROKE****(C2S02) Clinical Presentation of Stroke - Best** (2 items)

Clinical perfusion MRI: techniques and applications - Peter B. Barker, Xavier Golay, Greg Zaharchuk, 2013

[Book](#)

Thrombectomy 6 to 24 Hours after Stroke with a Mismatch between Deficit and Infarct - Raul G. Nogueira, Ashutosh P. Jadhav, Diogo C. Haussen, Alain Bonafe, Ronald F. Budzik, Parita Bhuvra, Dileep R. Yavagal, Marc Ribo, Christophe Cognard, Ricardo A. Hanel, Cathy A. Sila, Ameer E. Hassan, Monica Millan, Elad I. Levy, Peter Mitchell, Michael Chen, Joey D. English, Qaisar A. Shah, Frank L. Silver, Vitor M. Pereira, Brijesh P. Mehta, Blaise W. Baxter, Michael G. Abraham, Pedro Cardona, Erol Veznedaroglu, Frank R. Hellinger, Lei Feng, Jawad F. Kirmani, Demetrius K. Lopes, Brian T. Jankowitz, Michael R. Frankel, Vincent Costalat, Nirav A. Vora, Albert J. Yoo, Amer M. Malik, Anthony J. Furlan, Marta Rubiera, Amin Aghaebrahim, Jean-Marc Olivot, Wondwossen G. Tekle, Ryan Shields, Todd Graves, Roger J. Lewis, Wade S. Smith, David S. Liebeskind, Jeffrey L. Saver, Tudor G. Jovin, 2018-01-04

[Article](#)**(C2S09) CT Angiography & MR Angiography - Al Busaidi** (4 items)

The AAPM/RSNA physics tutorial for residents. An introduction to MR angiography. - D

Saloner, 1995-03

Article

Application of Basic Principles of Physics to Head and Neck MR Angiography:

Troubleshooting for Artifacts - Shilpa Pandey, Michael Hakky, Ellie Kwak, Hernan Jara, Carl A. Geyer, Sami H. Erbay, 2013-05

Article

AAPM/RSNA Physics Tutorial for Residents: Topics in CT - Dianna D. Cody, 2002-09

Article

Two-dimensional time-of-flight MR angiography of the lower extremities: artifacts and pitfalls. - J A Kaufman, D McCarter, S C Geller, A C Waltman, 1998-07

Article

(C2S11) Ultrasound Doppler - Barratt (5 items)

Diagnosis and management of carotid atherosclerosis - A. Thapar, I. H. Jenkins, A. Mehta, A. H. Davies, 2013-03-18

Article

Grading Carotid Stenosis Using Ultrasonic Methods - Gerhard-Michael von Reutern, Michael-Wolfgang Goertler, Natan M. Bornstein, Massimo Del Sette, David H. Evans, Michael-Wolfgang Goertler, Andreas Hetzel, Manfred Kaps, Fabienne Perren, Alexander Razumovsky, Toshiyuki Shiogai, Ekaterina Titianova, Pavel Traubner, Narayanaswamy Venketasubramanian, Lawrence K.S. Wong, Masahiro Yasaka, 2012-03

Article

RadioGraphics

Journal

AIUM Practice Guideline for the Performance of a Transcranial Doppler Ultrasound Examination for Adults and Children - 2012-09

Article

Cerebral Autoregulation in Stroke - Marcel J.H. Aries, Jan W. Elting, Jacques De Keyser, Berry P.H. Kremer, Patrick C.A.J. Vroomen, 2010-11

Article

(C2TR02) Radiology of Trauma - Davagnanam (7 items)

Head Trauma - Patricia C. Davis, 2007-09-01

Article

Imaging for the Diagnosis and Management of Traumatic Brain Injury - Jane J. Kim, Alisa D. Gean, 2011-1

Article

Head Trauma - Alisa D. Gean, Nancy J. Fischbein, November 2010

Article

Imaging of Head Trauma - Tarek A. Hijaz, Enzo A. Cento, Matthew T. Walker, 2011-1

Article

Guidelines for the Management of Acute Cervical Spine and Spinal Cord Injuries: Congress of Neurological Surgeons - AANS/CNS Joint Guidelines Committee, March 2013

Webpage

Head injury: assessment and early management: Guidance and guidelines: NICE clinical guideline No. 176 - January 2014

Webpage

Spinal injury: assessment and initial management: Guidance and guidelines: NICE clinical guideline no. 41 - February 2016

Webpage

(C2S02) Small vessel disease - ischaemic and haemorrhagic manifestations - Werring (2 items)

Neuroimaging standards for research into small vessel disease and its contribution to ageing and neurodegeneration - Joanna M Wardlaw, Eric E Smith, Geert J Biessels, Charlotte Cordonnier, Franz Fazekas, Richard Frayne, Richard I Lindley, John T O'Brien, Frederik Barkhof, Oscar R Benavente, Sandra E Black, Carol Brayne, Monique Breteler, Hugues Chabriat, Charles DeCarli, Frank-Erik de Leeuw, Fergus Doubal, Marco Duering, Nick C Fox, Steven Greenberg, Vladimir Hachinski, Ingo Kilimann, Vincent Mok, Robert van Oostenbrugge, Leonardo Pantoni, Oliver Speck, Blossom C M Stephan, Stefan Teipel, Anand Viswanathan, David Werring, Christopher Chen, Colin Smith, Mark van Buchem, Bo Norrving, Philip B Gorelick, Martin Dichgans, 2013-08

Article

Cerebral small vessel disease: from pathogenesis and clinical characteristics to therapeutic challenges - Leonardo Pantoni, 2010-07

Article

NEUROLOGICAL INTERVENTIONS

INFLAMMATION AND INFECTIONS

(C2II05) Imaging approach to infections (viral, bacterial and fungal) - Hoskote (6 items)

Community-Acquired Bacterial Meningitis in Adults - Diederik van de Beek, Jan de Gans, Allan R. Tunkel, Eelco F.M. Wijdicks, 2006-01-05

Article

Antimicrobial Treatment of Serious Gram-Negative Infections in Newborns - James W. Gray, Hirminder Ubhi, Philip Milner, 2014-2

Article

A Concise Critical Analysis of Serologic Testing for the Diagnosis of Lyme Disease - Roberta L. DeBiasi, 2014-12

Article

Brain Abscess - 2014-10-30

Article

HIV-associated opportunistic infections of the CNS - Ik Lin Tan, Bryan R Smith, Gloria von Geldern, Farrah J Mateen, Justin C McArthur, 2012-07

Article

Brain Proton Magnetic Resonance Spectroscopy - Débora Bertholdo, Arvemas Watcharakorn, Mauricio Castillo, 2013-8

Article

TRAUMA

DEMYELINATION