

## REFERENCES

- Pitts SR, Niska RW, Xu J, et al: National Hospital Ambulatory Medical Care Survey: 2006 emergency department summary. *Natl Health Stat Rep* 7: 1, 2008.
- <http://www.who.int/mediacentre/factsheets/fs277/en/> (World Health Organization: October 2012, Fact Sheet no. 277: Headache disorders.) Accessed April 28, 2014.
- Kunkle EC, Ray BS, Wolff HG: Studies on headache: the mechanisms and significance of the headache associated with brain tumor. *Bull N Y Acad Med* 18: 400, 1942. [PMID: 19312276]
- Goadsby PJ, Lipton RB, Ferrari MD: Migraine—current understanding and treatment. *N Engl J Med* 346: 257, 2002. [PMID: 11807151]
- Perelson HN: Occipital nerve tenderness; a sign of headache. *South Med J* 40: 653, 1947. [PMID: 20252372]
- Schievink WI: Spontaneous spinal cerebrospinal fluid leaks and intracranial hypotension. *JAMA* 295: 2286, 2006. [PMID: 16705110]
- Goldstein JN, Camargo CA Jr, Pelletier AJ et al: Headache in United States emergency departments: demographics, work-up and frequency of pathological diagnoses. *Cephalalgia* 26: 684, 2006. [PMID: 16686907]
- Perry JJ, Stiell IG, Sivilotti ML et al: Clinical decision rules to rule out subarachnoid hemorrhage for acute headache. *JAMA* 310: 1248, 2013. [PMID: 24065011]
- Edlow JA, Panagos PD, Godwin SA, et al: Clinical policy: critical issues in the evaluation and management of adult patients presenting to the emergency department with acute headache. *Ann Emerg Med* 52: 407, 2008.
- Vinson DR: Treatment patterns of isolated benign headache in U.S. emergency departments. *Ann Emerg Med* 39: 215, 2002. [PMID: 11867972]
- Pascual J, Berciano J: Experience in the diagnosis of headaches that start in elderly people. *J Neurol Neurosurg Psychiatry* 57: 1255, 1994.
- Day JW, Raskin NH: Thunderclap headache: symptom of unruptured cerebral aneurysm. *Lancet* 2: 1247, 1986. [PMID: 2878133]
- Ducros A, Boussier MG. Thunderclap Headache. *BMJ* 346: e8557, 2013. [PMID: 23303883]
- Dilli E: Thunderclap headache. *Curr Neurol Neurosci Rep* 14: 437, 2014. [PMID: 24643327]
- Hobson EV, Craven I, Blank SC: Posterior reversible encephalopathy syndrome: a truly treatable neurologic illness. *Perit Dial Int* 32: 590, 2012.
- Bernard KR, Rivera M: Reversible cerebral vasoconstriction syndrome. *J Emerg Med* 49(1): 26, 2015.
- [https://www.icsi.org/\\_asset/qwrzq/Headache.pdf](https://www.icsi.org/_asset/qwrzq/Headache.pdf) (Beithon J, Gallenberg M, Johnson K, et al: Institute for Clinical Systems Improvement: diagnosis and treatment of headache). Accessed July 30, 2014.
- Mortimer AM, Bradley MD, Stoodley NG, Renowden SA: Thunderclap headache: diagnostic considerations and neuroimaging features. *Clin Radiol* 68: e101, 2013. [PMID: 23245274]
- Lipton RB, Feraru ER, Weiss G, et al: Headache in HIV-1 related disorders. *Headache* 31: 518, 1991.
- Rothman RE, Keyl PM, McArthur JC, et al. A decision guideline for emergency department utilization of noncontrast head computed tomography in HIV-infected patients. *Acad Emerg Med* 6: 1010, 1999.
- Nishijima DK, Offerman SR, Ballard DW, et al: Risk of traumatic intracranial hemorrhage in patients with head injury and preinjury warfarin or clopidogrel use. *Acad Emerg Med* 20: 140, 2013. [PMID: 23406072]
- Ducros A: Reversible cerebral vasoconstriction syndrome. *Lancet Neurol* 11: 906, 2012. [PMID: 22995694]
- Nahed BV, Bydon M, Ozturk AK, Bilguvar K, Bayrakli F, Gunel M: Genetics of intracranial aneurysms. *Neurosurgery* 60: 213, 2007. [PMID: 17290171]
- Gardner KL: Genetics of migraine: an update. *Headache* 46 (Suppl 1): S19, 2006. [PMID: 16927960]
- Eccles R: Understanding the symptoms of the common cold and influenza. *Lancet Infect Dis* 5: 718, 2005. [PMID: 16253889]
- van de Beek D, de Gans J, Spanjaard L, Weisfelt M, Reitsma JB, Vermeulen M: Clinical features and prognostic factors in adults with bacterial meningitis. *N Engl J Med* 351: 1849, 2004. [PMID: 15509818]
- Hinchey J, Chaves C, Appignani B, et al: A reversible posterior leukoencephalopathy syndrome. *N Engl J Med* 334: 494, 1996. [PMID: 8559202]
- Steffen H, Eifert B, Aschoff A, Kolling GH, Volcker HE: The diagnostic value of optic disc evaluation in acute elevated intracranial pressure. *Ophthalmology* 103: 1229, 1996. [PMID: 8764791]
- McCormick JE, Greer RM, Gole GA: Panoptic versus conventional ophthalmoscope. *Clin Exp Ophthalmol* 32: 238, 2004. [PMID: 15180833]
- Dubourg J, Messerer M, Karakitsos D, et al: Individual patient data systematic review and meta-analysis of optic nerve sheath diameter ultrasonography for detecting raised intracranial pressure: protocol of the ONSD research group. *Syst Rev* 2: 62, 2013. [PMID: 23919384]
- Kimberly HH, Shah S, Marill K, Noble V: Correlation of optic nerve sheath diameter with direct measurement of intracranial pressure. *Acad Emerg Med* 15: 201, 2008. [PMID: 18275454]
- Glimaker M, Johansson B, Bell M, et al: Early lumbar puncture in adult bacterial meningitis: rationale for revised guidelines. *Scand J Infect Dis* 45: 657, 2013. [PMID: 23808722]
- Locker TE, Thompson C, Rylance J, et al: The utility of clinical features in patients presenting with nontraumatic headache: an investigation of adult patients attending an emergency department. *Headache* 46(6): 954, 2006.
- Strain JD, Strife JL, Kushner DC, et al: Headache: American College of Radiology appropriateness criteria. *Radiology* 215 (Suppl): 855, 2000. [PMID: 11037510]
- Loder E, Weizenbaum E, Frishberg B, Silberstein S: American Headache Society Choosing Wisely Task Force: choosing wisely in headache medicine: the American Headache Society's list of five things physicians and patients should question. *Headache* 53: 1651, 2013. [PMID: 24266337]
- Douglas AC, Wippold FJ 2nd, Broderick DF, et al: ACR appropriateness criteria: headache. *J Am Coll Radiol* 11: 657, 2014. [PMID: 24933450]
- Gee C, Dawson M, Bledsoe J, et al: Sensitivity of newer-generation computed tomography scanners for subarachnoid hemorrhage: a Bayesian analysis. *J Emerg Med* 43: 13, 2012. [PMID: 22326408]
- Sanyal S, Marckmann P, Scherer S, Abraham JL: Multiorgan gadolinium (gd) deposition and fibrosis in a patient with nephrogenic systemic fibrosis—an autopsy-based review. *Nephrol Dial Transplant* 26: 3616, 2011. [PMID: 21441397]
- Hinson JS, Ehmman MR, Fine DM, et al: Risk of acute kidney injury after intravenous contrast media administration. *Ann Emerg Med* 69(5): 577, 2017.
- van Crevel H, Hijdra A, de Gans J: Lumbar puncture and the risk of herniation: when should we first perform CT? *J Neurol* 249: 129, 2002. [PMID: 11985377]
- Canhao P, Abreu LF, Ferro JM, et al: Safety of lumbar puncture in patients with cerebral venous thrombosis. *Eur J Neurol* 20: 1075, 2013. [PMID: 23551518]
- Hasbun R, Abrahams J, Jekel J, Quagliarello VJ: Computed tomography of the head before lumbar puncture in adults with suspected meningitis. *N Engl J Med* 345: 1727, 2001. [PMID: 11742046]
- Brunell A, Ridefelt P, Zelano J: Differential diagnostic yield of lumbar puncture in investigation of suspected subarachnoid haemorrhage: a retrospective study. *J Neurol* 260: 1631, 2013. [PMID: 23358626]
- Hop JW, Rinkel GJ, Algra A, van Gijn J: Case-fatality rates and functional outcome after subarachnoid hemorrhage: a systematic review. *Stroke* 28: 660, 1997. [PMID: 9056628]
- Suarez JI, Tarr RW, Selman WR: Aneurysmal subarachnoid hemorrhage. *N Engl J Med* 354: 387, 2006. [PMID: 16436770]
- Carpenter CR, Hussain AM, Ward MJ, et al: Spontaneous subarachnoid hemorrhage: a systematic review and meta-analysis describing the diagnostic accuracy of history, physical exam, imaging, and lumbar puncture with an exploration of test thresholds. *Acad Emerg Med* 23(9): 963, 2016.
- Mayor S: Earlier diagnosis is needed to reduce deaths and disability from aneurysmal subarachnoid haemorrhage. *BMJ* 347: f6925, 2013. [PMID: 24270096]
- Perry JJ, Stiell IG, Sivilotti ML, et al: Sensitivity of computed tomography performed within six hours of onset of headache for diagnosis of subarachnoid haemorrhage: prospective cohort study. *BMJ* 343: d4277, 2011. [PMID: 21768192]
- Edlow JA, Malek AM, Ogilvy CS: Aneurysmal subarachnoid hemorrhage: update for emergency physicians. *J Emerg Med* 34: 237, 2008. [PMID: 18155383]
- Heasley DC, Mohamed MA, Yousem DM: Clearing of red blood cells in lumbar puncture does not rule out ruptured aneurysm in patients with suspected subarachnoid hemorrhage but negative head CT findings. *AJNR Am J Neuroradiol* 26: 820, 2005. [PMID: 15814927]
- Horstman P, Linn FH, Voorbij HA, Rinkel GJ: Chance of aneurysm in patients suspected of SAH who have a “negative” CT scan but a “positive” lumbar puncture. *J Neurol* 259: 649, 2012. [PMID: 21901483]
- O’Laughlin KN, Hoffman JR, Go S, et al: Nonconcordance between clinical and head CT findings: the specter of overdiagnosis. *Emerg Med Int* 2013: 314948, 2013. [PMID: 24222854]
- Frontera JA, Ahmed W, Zach V, et al: Acute ischaemia after subarachnoid haemorrhage, relationship with early brain injury and impact on outcome: a prospective quantitative MRI study. *J Neurol Neurosurg Psychiatry* 86: 71, 2015.
- Verma RK, Kottke R, Anderegg L, et al: Detecting subarachnoid hemorrhage: comparison of combined FLAIR/SWI versus CT. *Eur J Radiol* 82: 1539, 2013. [PMID: 23632159]
- Witsch J, Neugebauer H, Zweckberger K, Juttler E: Primary cerebellar haemorrhage: complications, treatment and outcome. *Clin Neurol Neurosurg* 115: 863, 2013. [PMID: 23659765]
- Kahn K, Finkel A: It is a tumor: current review of headache and brain tumor. *Curr Pain Headache Rep* 18: 421, 2014. [PMID: 24760490]
- Kirby S, Purdy RA: Headaches and brain tumors. *Neurol Clin* 32(2): 423, 2014.
- Kirby S, Purdy RA: Headache and brain tumors. *Curr Neurol Neurosci Rep* 7(2): 110, 2007.
- Forsyth PA, Posner JB: Headaches in patients with brain tumors: a study of 111 patients. *Neurology* 43(9): 1678, 1993.
- Navi BB, Reichman JS, Berlin D, et al: Intracerebral and subarachnoid hemorrhage in patients with cancer. *Neurology* 74(6): 494, 2010.
- Alvis-Miranda HR, Milena Castellar-Leones S, Alcalá-Cerra G, Rafael Moscote-Salazar L: Cerebral sinus venous thrombosis. *J Neurosci Rural Pract* 4: 427, 2013. [PMID: 24347950]

62. Fischer C, Goldstein J, Edlow J: Cerebral venous sinus thrombosis in the emergency department: retrospective analysis of 17 cases and review of the literature. *J Emerg Med* 38: 140, 2010. [PMID: 20031365]
63. de Bruijn SF, Stam J, Kappelle LJ: Thunderclap headache as first symptom of cerebral venous sinus thrombosis. CVST Study Group. *Lancet* 348: 1623, 1996. [PMID: 8961993]
64. Girot M, Ferro JM, Canhao P, et al: Predictors of outcome in patients with cerebral venous thrombosis and intracerebral hemorrhage. *Stroke* 38(2): 337, 2007.
65. Iurlaro S, Beghi E, Massetto N, et al: Does headache represent a clinical marker in early diagnosis of cerebral venous thrombosis? A prospective multicentric study. *Neurol Sci* 25 (Suppl 3): S298, 2004. [PMID: 15549568]
66. Agostoni E: Headache in cerebral venous thrombosis. *Neurol Sci* 25 (Suppl 3): S206, 2004. [PMID: 15549538]
67. Lee VH: Clinical spectrum of reversible posterior leukoencephalopathy syndrome. *Arch Neurol* 65: 205, 2008. [PMID: 18268188]
68. Ducros A, Boukobza M, Porcher R, et al: The clinical and radiological spectrum of reversible cerebral vasoconstriction syndrome. A prospective series of 67 patients. *Brain* 130: 3091, 2007. [PMID: 18225032]
69. Hunder GG, Bloch DA, Michel BA, et al: The American College of Rheumatology 1990 criteria for the classification of giant cell arteritis. *Arthritis Rheum* 33: 1122, 1990. [PMID: 2202311]
70. Detsky ME, McDonald DR, Baerlocher MO, et al: Does this patient with headache have a migraine or need neuroimaging? *JAMA* 296(10): 1274, 2006.
71. Sanderson JC, Devine EB, Lipton RB, et al: Headache-related health resource utilisation in chronic and episodic migraine across six countries. *J Neurol Neurosurg Psychiatry* 84: 1309, 2013. [PMID: 23813744]
72. Valade D: Chronic migraine. *Rev Neurol (Paris)* 169: 419, 2013. [PMID: 23602118]
73. Eken C: Critical reappraisal of intravenous metoclopramide in migraine attack: a systematic review and meta-analysis. *Am J Emerg Med* 33(3): 331, 2015.
74. Orr SL, Friedman BW, Christie S, et al: Management of adults with acute migraine in the emergency department: the American Headache Society evidence assessment of parenteral pharmacotherapies. *Headache* 56: 911, 2016.
75. Friedman BW, Cabral L, Adewunmi V, et al: Diphenhydramine as adjuvant therapy for acute migraine. An ED-based randomized clinical trial. *Ann Emerg Med* 67(1): 32, 2016.
76. Kelley NE, Tepper DE: Rescue therapy for acute migraine, part 2: neuroleptics, antihistamines, and others. *Headache* 52: 292, 2012. [PMID: 22309235]
77. Kelley NE, Tepper DE: Rescue therapy for acute migraine, part 3: opioids, NSAIDs, steroids, and post-discharge medications. *Headache* 52: 467, 2012. [PMID: 22404708]
78. Engindeniz Z, Demircan C, Karli N, et al: Intramuscular tramadol vs. diclofenac sodium for the treatment of acute migraine attacks in emergency department: a prospective, randomised, double-blind study. *J Headache Pain* 6: 143, 2005. [PMID: 16355295]
79. Worthington I, Pringsheim T, Gawel MJ, et al: Canadian Headache Society guideline: acute drug therapy for migraine headache. *Can J Neurol Sci* 40 (5 Suppl 3): S1, 2013. [PMID: 23968886]
80. Gilmore B, Michael M: Treatment of acute migraine headache. *Am Fam Physician* 83: 271, 2011. [PMID: 21302868]
81. Wall M, Kupersmith MJ, Kiebertz KD, et al: The idiopathic intracranial hypertension treatment trial: clinical profile at baseline. *JAMA Neurol* 71: 693, 2014. [PMID: 24756302]
82. Friedman DI, Liu GT, Digre KB: Revised diagnostic criteria for the pseudotumor cerebri syndrome in adults and children. *Neurology* 81: 1159, 2013. [PMID: 23966248]
83. Fiorito-Torres F, Rayhill M, Perloff M: Idiopathic intracerebral hypertension (IIH)/pseudotumor: removing less CSF is best (I9-1.006). *Neurology* 82 (10 Suppl): I9-1.006, 2014.
84. Friedman DI, Jacobson DM: Idiopathic intracranial hypertension. *J Neuroophthalmol* 24: 138, 2004. [PMID: 15179068]
85. Friedman DI: The pseudotumor cerebri syndrome. *Neurol Clin* 32: 363, 2014. [PMID: 24703535]
86. Arendt K, Demaerschalk BM, Wingerchuk DM, Camann W: Atraumatic lumbar puncture needles: after all these years, are we still missing the point? *Neurologist* 15: 17, 2009. [PMID: 19131853]
87. Frank LR, Paxson A, Brake J: Spontaneous intracranial hypotension—a case report. *J Emerg Med* 28: 427, 2005. [PMID: 15837024]
88. Liao YJ, Dillon WP, Chin CT, McDermott MW, Horton JC: Intracranial hypotension caused by leakage of cerebrospinal fluid from the thecal sac after lumboperitoneal shunt placement. Case report. *J Neurosurg* 107: 173, 2007. [PMID: 17639890]
89. Spears RC: Low-pressure/spinal fluid leak headache. *Curr Pain Headache Rep* 18: 425, 2014. [PMID: 24760494]
90. Basurto Ona X, Uriona Tuma SM, Martinez Garcia L, Sola I, Bonfill Cosp X: Drug therapy for preventing post-dural puncture headache. *Cochrane Database Syst Rev* 2: CD001792, 2013. [PMID: 23450533]
91. Van Horn A, Chamberlain MC: Neoplastic meningitis. *J Support Oncol* 10: 45, 2012. [PMID: 22005214]
92. Nesbitt AD, Goadsby PJ: Cluster headache. *BMJ* 344: e2407, 2012. [PMID: 22496300]
93. Petersen AS, Barloese MC, Jensen RH: Oxygen treatment of cluster headache: a review. *Cephalalgia* 34(13): 1079, 2014.
94. Morgan A, Jessop V: Best BETs from the Manchester Royal Infirmary. BET 2: should intranasal lidocaine be used in patients with acute cluster headache? *Emerg Med J* 30(9): 769, 2013.
95. Lagman-Bartolome AM: Metabolic headaches. *Neurol Clin* 32: 451, 2014. [PMID: 24703539]
96. Nedeltchev K, der Maur TA, Georgiadis D, et al: Ischaemic stroke in young adults: diagnosis and recurrence. *J Neurol Neurosurg Psychiatry* 76(2): 191, 2005.
97. Putaala J, Metso AJ, Metso TM, et al: Analysis of 1008 consecutive patients aged 15 to 49 with first-ever ischemic stroke: the Helsinki young stroke registry. *Stroke* 40(4): 1195, 2009.
98. Engelter ST, Grond-Ginsbach C, Metso TM, et al: Cervical artery dissection: trauma and other potential mechanical trigger events. *Neurology* 80(21): 1950, 2013.
99. Debette S, Grond-Ginsbach C, Bodenmann M, et al: Differential features of carotid and vertebral artery dissections: the CADISP study. *Neurology* 77(12): 1174, 2011.
100. Silbert PL, Mokri B, Schievink WI: Headache and neck pain in spontaneous internal carotid and vertebral artery dissections. *Neurology* 45(8): 1517, 1995.
101. Biouesse V, Touboul PJ, D'Anglejan-Chatillon J, et al: Ophthalmologic manifestations of internal carotid artery dissection. *Am J Ophthalmol* 126(4): 565, 1998.
102. Sturzenegger M, Huber P: Cranial nerve palsies in spontaneous carotid artery dissection. *J Neurol Neurosurg Psychiatry* 56(11): 1191, 1993.
103. Provenzale JM, Sarikaya B: Comparison of test performance characteristics of MRI, MR angiography, and CT angiography in the diagnosis of carotid and vertebral artery dissection: a review of the medical literature. *AJR Am J Roentgenol* 193(4): 1167, 2009.
104. Weaver LK: Clinical practice. Carbon monoxide poisoning. *N Engl J Med* 360(12): 1217, 2009.
105. Heckerling PS, Leikin JB, Terzian CG, et al: Occult carbon monoxide poisoning in patients with neurologic illness. *J Toxicol Clin Toxicol* 28(1): 29, 1990.
106. Bozeman WP, Myers RA, Barish RA: Confirmation of the pulse oximetry gap in carbon monoxide poisoning. *Ann Emerg Med* 30(5): 608, 1997.
107. Buckley NA, Juurlink DN, Isbister G, et al: Hyperbaric oxygen for carbon monoxide poisoning. *Cochrane Database Syst Rev* 4: CD002041, 2011.
108. Nawar RN, AbdelMannan D, Selman WR, Arafah BM: Pituitary tumor apoplexy: a review. *J Intensive Care Med* 23: 75, 2008. [PMID: 18372348]
109. Lubina A, Olchovsky D, Berezin M, et al: Management of pituitary apoplexy: clinical experience with 40 patients. *Acta Neurochir (Wien)* 147(2): 151, 2005.
110. Sibal L, Ball SG, Connolly V, et al: Pituitary apoplexy: a review of clinical presentation, management and outcome in 45 cases. *Pituitary* 7(3): 157, 2004.
111. Humphries RL, Stone CK, Bowers RC: Colloid cyst: a case report and literature review of a rare but deadly condition. *J Emerg Med* 40: e5, 2011. [PMID: 18814994]
112. Spears RC: Colloid cyst headache. *Curr Pain Headache Rep* 8: 297, 2004. [PMID: 15228889]
113. Bonomi L, Marchini G, Marraffa M, et al: Epidemiology of angle-closure glaucoma: prevalence, clinical types, and association with peripheral anterior chamber depth in the Egna-Neumarkt Glaucoma Study. *Ophthalmology* 107(5): 998, 2000.
114. Saw SM, Gazzard G, Friedman DS: Interventions for angle-closure glaucoma: an evidence-based update. *Ophthalmology* 110(10): 1869, 2003.
115. Choong YF, Irfan S, Menage MJ: Acute angle closure glaucoma: an evaluation of a protocol for acute treatment. *Eye (Lond)* 13(Pt 5): 613, 1999.
116. American College of Obstetricians and Gynecologists, Task Force on Hypertension in Pregnancy: Hypertension in pregnancy. Report of the American College of Obstetricians and Gynecologists' task force on hypertension in pregnancy. *Obstet Gynecol* 122(5): 1122, 2013.