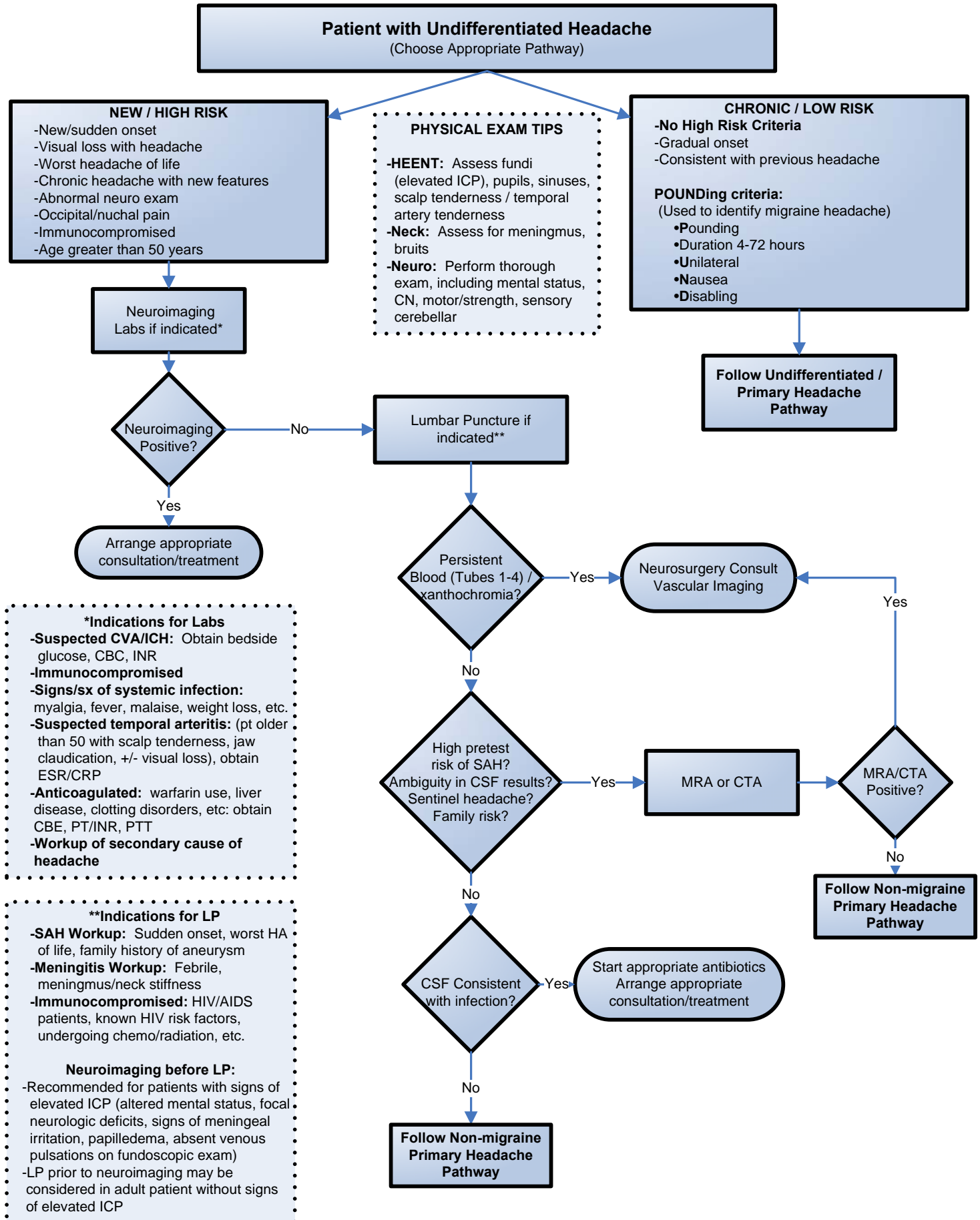


EmergencyKT: Headache



***Indications for Labs**

- Suspected CVA/ICH:** Obtain bedside glucose, CBC, INR
- Immunocompromised**
- Signs/sx of systemic infection:** myalgia, fever, malaise, weight loss, etc.
- Suspected temporal arteritis:** (pt older than 50 with scalp tenderness, jaw claudication, +/- visual loss), obtain ESR/CRP
- Anticoagulated:** warfarin use, liver disease, clotting disorders, etc: obtain CBE, PT/INR, PTT
- Workup of secondary cause of headache**

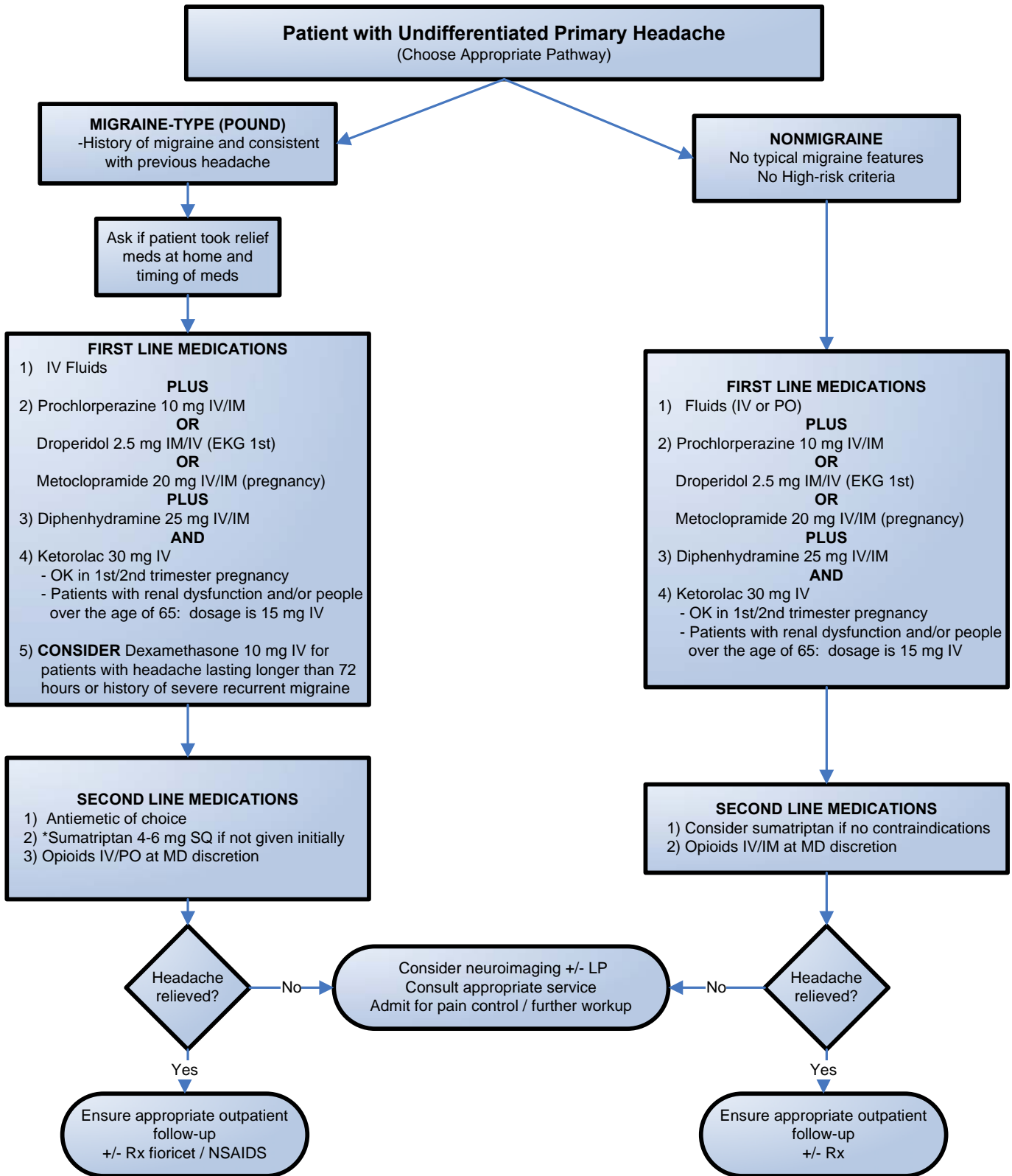
****Indications for LP**

- SAH Workup:** Sudden onset, worst HA of life, family history of aneurysm
- Meningitis Workup:** Febrile, meningismus/neck stiffness
- Immunocompromised:** HIV/AIDS patients, known HIV risk factors, undergoing chemo/radiation, etc.

Neuroimaging before LP:

- Recommended for patients with signs of elevated ICP (altered mental status, focal neurologic deficits, signs of meningeal irritation, papilledema, absent venous pulsations on fundoscopic exam)
- LP prior to neuroimaging may be considered in adult patient without signs of elevated ICP

EmergencyKT: Headache



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 **Consider as first line treatment if patient has not taken DHE/
 triptans in last 24 hours, has used triptans in past with good
 response and has no contraindications (CAD, CVA, Reynaud's,
 pregnancy, etc).

ACEP Headache Categories	
I. Critical secondary causes requiring emergent diagnosis and treatment	SAH/ICH, CVA, meningitis, encephalitis, brain tumor with elevated ICP, temporal arteritis, dural sinus thrombosis
II. Critical secondary causes not requiring emergent treatment but urgent follow-up/admission	Brain tumor with no signs of elevated ICP, aneurysm or AVM without ICH
III. Benign/reversible secondary causes	HTN, sinusitis, post-LP headache
IV. Primary causes of headache	Migraine, tension, cluster

- 1) AD, Smith LA, McQuay HJ, et al. Pharmacological treatments for acute migraine: quantitative systematic review. *Pain* 2002;97(3):247-57
- 2) Detsky ME, McDonald DR, Baerlocher MO, et al. Does this patient with headache have a migraine or need neuroimaging? *JAMA* 2006;296(10):1274-83
- 3) Miner JR, et al. "Sumatriptan for treatment of undifferentiated primary headaches in ED". *Am J Emerg Med* 2007 January;25(1)60-4.
- 4) Winner P, Ricalde O, Le Force B, et al. A double-blind study of subcutaneous dihydroergotamine vs subcutaneous sumatriptan in the treatment of acute migraine. *Arch Neurol* 1996;53(2):180-4.
- 5) Friedman et al. "A randomized controlled trial of prochlorperazine versus metoclopramide for treatment of acute migraine." *Ann Emerg Med* 2008 Oct;52(4):399-406.
- 6) Ramirez-Lassepas et al. "Predictors of intracranial pathologic findings in patients who seek emergency care for headache." *Arch Neurol* 1997 Dec; 54(12):1506-9.
- 7) Colman I et al. Parenteral dexamethasone for acute severe migraine headache: meta-analysis of randomised controlled trials for preventing recurrence." *BMJ* 2008 Jun 14;336(7657):1359-61
- 8) Silberstein et al "Practice parameter: evidence-based guidelines for migraine headache (an evidence-based review): report of the Quality Standards Subcommittee of the American Academy of Neurology." *Neurology* 2000;55:754-62.
- 9) Tornabee S. et al. "Evaluating the use and timing of opioids for the treatment of migraine headaches in the emergency department." *The Journal of Emergency Medicine* 2009;36(4): 333-337.
-) Friedman B, et al. "The relative efficacy of meperidine for treatment of acute migraine: a meta-analysis of randomized controlled trials." *Ann Emerg Med.* 2008;52:705-713.
- 11) Edlow JA, Panagos PD, et al. "Clinical Policy: Critical Issues in the Evaluation and Management of Adult Patients Presenting to the Emergency Department with Acute Onset Headache." *Ann Emerg Med* 2008;52:407-436.
- 12) Edlow, JA et al. "Aneurysmal Subarachnoid Hemorrhage: Update for Emergency Physicians" *The Journal of Emergency Medicine*;34(3):237-251.
- 13) Petzold, A "Spectroscopy for Cerebrospinal Fluid Analysis" *Neurocrit. Care* 2006;04:153-162.
- 14) Byyny RL et al. "Sensitivity of Noncontrast Cranial Computed Tomography for the Emergency Department Diagnosis of Subarachnoid Hemorrhage" *Ann Emerg Med.* 2008;51:697-703.
- 15) Colman I, et al. "Parenteral dihydroergotamine for treatment of migraine headache: a systemic review of the literature". *Ann Emerg Med* 2005 Apr;45(4):393-401.