Bibliographic Cite	PMID Link	Literature Type	Level of Evidence	Purpose	Population	Intervention and Outcome Measures	Results / Recommendations	Study Limitiations
Chen WH, Chu MY, Lin YC. Sexual behavior, function and satisfaction in headache associated with sexual activity: A systematic review of literature. Advances in Sexual Medicine. 2017; 7:65-81.	N/A	Systematic review	Low	strategy for prevention or correction of sexual adversity	The authors searched on patients with headaches related to sexual activity and their partners before and after treatment. The main interests were to find out the sexual history (premorbid sexual history like sexual orientation, preference, abuse and others), sexual behavior (partnering, pattern of sexual act, specificity of sexual act, trigger of pain, pain factor), and sexual function (libido, arousal, and orgasm) in HSA patients, and sexual satisfaction in HSA patients and their partners.		type of headache associated with sexual activity. The HSA occurs more frequently in	The authors note a primary study limitation that almost all of the HSA studies and reports focused only on the etiology, diagnosis, and treatment. The data of sexual behavior, function, and satisfaction before, under, and after treatment is sparse.
Dubosh NM, Bellolio MF, Rabinstein AA, et al. Sensitivity of Early Brain Computed Tomography to Exclude Aneurysmal Subarachnoid Hemorrhage: A Systematic Review and Meta-Analysis. Stroke. 2016;47(3):750-5.	26797666	Systematic review and meta analysis	High a-			Thirteen of the estimated 8907 patients had a missed SAH (incidence 1.46 per 1000) on brain CTs within 6 hours of headache onset. Overall sensitivity of the CT was 0.987 (95% confidence intervals, 0.971-0.994) and specificity was 0.999 (95% confidence intervals, 0.993-1.0).	A total of 882 titles were reviewed and 5 articles met inclusion criteria, including an estimated 8907 patients. Thirteen had a missed SAH (incidence 1.46 per 1000) on brain CTs within 6 hours. Overall sensitivity of the CT was 0.987 (95% confidence intervals, 0.971-0.994) and specificity was 0.999 (95% confidence intervals, 0.933-1.0). The pooled likelihood ratio of a negative CT was 0.010 (95% confidence intervals, 0.003, 0.034), CONCLUSIONs: in patients presenting with thunderclap headache and normal neurological examination, normal brain CT within 6 hours of headache is extremely sensitive in ruling out aneurysmal SAH.	Small number of included studies
Evans RW, Burch RC, Frishberg BM, et al. Neuroimagig for migraine: The American Headache Society systematic review and evidence-based guideline. Headache. 2020; 60(2):318-336.	<u>31891197</u>	Systematic review	Moderate	To provide updated evidence based recommendations about when to obtain neuroimaging in patients with migraine.	review if they studied adults 18 and over who were seeking outpatient	Medline, Web of Science, and Cochrane Clinical Trials were searched from 1973 to August 31, 2018. Reviewers identified studies, extracted data, and assessed the quality of the evidence in duplicate. We assessed study quality using the Newcastle-Ottawa Scale.	Ten studies evaluated the utility of CT only, 9 MRI only, and 4 evaluated both. Common abnormalities included chronic ischemia or atrophy with CT and MRI scanning, and non-specific white matter lesions with MRI. Clinically meaningful abnormalities requiring intervention were relatively rare. Clinically significant neuroimaging abnormalities in patients with headches consistent with migraine without atypical features or red flags appeared no more common than in the general population. Recommendations. —There is no necessity to do neuroimaging in patients with headches consistent with migraine with hower a normal neurologic examination, and there are no atypical features or red flags present. Grade A Neuroisal, prolonged, or persistent aura; increasing frequency, severity, or change in clinical features, first or worst migraine, migraine with horistnem aura; migraine with chuision, migraine with notor manifestations (hemiplegic migraine), late-life migraine accompaniments, aura without headache, side-locked headache, and posttraumatic headache. Most of these are consensus based with little or no literature support.	
Kamtchum-Tatuene J, Kenteu B, Fogang YF, et al. Neuroimaging findings in headache with normal neurologic examination: Systematic review and meta- analysis. J Neurol Sci. 2020; 416:116997.	32623142	Systematic review and meta analysis	Moderate a-	To determine if pooled estimates of the prevalence of unexpected findings in patients with headache and normal neurologic examination support current expert opinion-based neuroimaging guidelines.	A total of 41 studies (15,760 participants) were included. All observational studies reporting neuroimaging findings in patients with headache and normal neurologic examination. from inception to September 30, 2017, and without language restriction were included in the search. Case series (< 30 participants), letters, editorials, commentaries, and studies with insufficient description of the methods or not reporting specific data for patients with headache and normal neurologic examination were excluded.	Disagreements regarding study inclusion were resolved through consensus. The inter-rater agreement for study selection was assessed using a non-weighted Cohen's kappa. For each study included, the risk of bias was independently assessed by two investigators using an adapted version of the Risk of Bias Tool for Prevalence Studies. The overall and disease-specific prevalence of unexpected findings were pooled through random-effects meta-analysis.	were all classified as having low to moderate risk of bias, with 37 (90.2%) having a low risk. There was 86% agreement between the investigators for the risk of bias assessment ( $\kappa = 0.60$ ). The overall prevalence of unexpected findings and normal	The included studies did not provide data on the cardiovascular risk factors (atrial fibrillation, diabetes mellitus, smoking, obesity) and other comorbidities (HIV infection, auto-immune and coagulation disorders, history of stroke or seizure) that may not cause an abnormal neurologic examination but could influence the prevalence of abnormal findings on neuroimaging. Detailed information about the clinical characteristics of headaches were also not provided, notably the presence and nature of red flags. The authors also note that they could not perform an in-depth assessment of the relative imports of recent high-resolution imaging techniques on the prevalence of unexpected findings because most of the included reports did not provide a comprehensive description of the imaging device and protocols used.

Walton M, Hodgson R,		Systematic	Moderate	To evaluate diagnostic	A total of 37 studies were included. To	Data were extracted on study methods, patient, intervention	Twelve studies had a low risk of bias for all domains, the other 25 were at risk of bias.	A limitation of this review was the substantial heterogeneity
Eastwood A, et al. Management		review		strategies in the	meet inclusion criteria, studies had to	and reference standard characteristics, outcome measures,	Eight studies assessing the Ottawa SAH clinical decision rule were pooled; sensitivity	in the study methods and population characteristics of the
of patients presenting to the				management of	assess any care pathway for ruling out	adverse events and results. Where sufficient information was	99.5% (95% CI 90.8 to 100), specificity 24% (95% CI 15.5 to 34.4). Four studies	included studies. The evidence base included too few
emergency department with				neurologically intact patients	SAH (including clinical decision rules	reported, diagnostic accuracy data were extracted into 2×2	assessing CT within 6 hours of headache onset were pooled; sensitivity 98.7% (95% CI	patients, given the
sudden onset severe headache:				presenting to the ED with	and specific diagnostic tests, such as CT	tables to calculate sensitivity, specificity, false positive and false	96.5 to 100), specificity 100% (95% CI 99.7 to 100). The sensitivity of CT beyond 6	rarity of SAH events, missed diagnoses and alternative non-
Systematic review of diagnostic				non-traumatic sudden onset	or LP) in neurologically intact adult	negative rates. Subgroups were analyzed separately to account	hours was considerably lower (≤90%; 2 studies). Three studies assessing lumbar	SAH pathologies. This led to heterogeneity in the results of
accuracy studies. Emerg Med J.				severe headache with a	patients presenting to hospital with a	for underlying differences in diagnostic strategies. Where	puncture (LP; spectrophotometric analysis) following negative CT were pooled;	some meta-analyses, and potentially meant uncertainty was
2022; 39(11):818-825.				clinical suspicion of	sudden onset severe headache	results could not be pooled, they were synthesized narratively	sensitivity 100% (95% CI 100 to 100), specificity 95% (95% CI 86.0 to 98.5). The authors	underestimated in others. There was a lack of research
				subarachnoid hemorrhage	(reaching maximum intensity within 1	along with reported adverse event data.	conclude that the Ottawa SAH Rule rules out further investigation in only a small	evidence on the small subgroup of patients who present to
	35361627			(SAH).	hour), with a clinical suspicion of SAH.		proportion of patients. CT undertaken within 6 hours (with expertise of a	hospital several days after headache onset. Diagnosis of SAH
	55501027				Studies of patients who had suffered a		neuroradiologist or radiologist who routinely interprets brain images) is highly	in such patients is particularly challenging and there is a lack
					head injury (ie, traumatic headache)		accurate and likely to be sufficient to rule out SAH; CT beyond 6 hours is much less	of guidance and consistency in how these patients are
					were excluded. Any primary study		sensitive. The CT-LP pathway is highly sensitive for detecting SAH and some	assessed.
					design (other than single case study)		alternative diagnoses, although LP results in some false positive results.	
					was eligible for inclusion.			