

Supplementary Materials

Neurotransmitter Imbalance in Cluster Headache: A Systematic Review of Mechanisms and
Therapeutic Targets

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Table S1. Search strategies utilized for the systematic search.

Database	Search strategy
PubMed	("Cluster Headache"[Mesh] OR "cluster headache"[tiab] OR "cluster headaches"[tiab]) AND ("Neurotransmitter Agents"[Mesh] OR "neurotransmitters"[tiab] OR "neurotransmitter imbalance"[tiab] OR "monoamines"[tiab] OR "dopamine"[tiab] OR "serotonin"[tiab] OR "glutamate"[tiab] OR "GABA"[tiab] OR "acetylcholine"[tiab]) AND ("Physiopathology"[Mesh] OR "pathophysiology"[tiab] OR "mechanism"[tiab] OR "mechanisms"[tiab] OR "therapeutic target"[tiab] OR "therapeutic targets"[tiab] OR "treatment"[tiab] OR "drug target"[tiab])
Embase (Ovid)	('cluster headache'/exp OR 'cluster headache':ti,ab) AND ('neurotransmitter'/exp OR 'neurotransmitter imbalance':ti,ab OR neurotransmitters:ti,ab OR dopamine:ti,ab OR serotonin:ti,ab OR glutamate:ti,ab OR gaba:ti,ab OR acetylcholine:ti,ab) AND ('physiopathology'/exp OR pathophysiology:ti,ab OR mechanism:ti,ab OR mechanisms:ti,ab OR 'therapeutic target':ti,ab OR 'therapeutic targets':ti,ab OR treatment:ti,ab OR 'drug target':ti,ab)
Scopus	TITLE-ABS-KEY ("cluster headache") AND TITLE-ABS-KEY ("neurotransmitter" OR "neurotransmitter imbalance" OR "dopamine" OR "serotonin" OR "glutamate" OR "GABA" OR "acetylcholine" OR "monoamines") AND TITLE-ABS-KEY("mechanism" OR "mechanisms" OR "pathophysiology" OR "therapeutic target" OR "therapeutic targets" OR "drug target" OR "treatment")

Supplementary Table 2. Template for data extraction.

[illegible]