

Introduction

# Chronic Management of Primary Headaches in Primary Care: A Literature Review

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**Population** 

Not specific

Adult women

Not specific

Adults

Adults

Adults

Adults with

depression

Not specific

Not specific

Not specific

Adults

Adults

Adults

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#### **Table 1. Included studies**

Introduction	Authors	Origin	Study design	Headaches	Intervention
Headaches are among the most frequent symptoms in primary care consultations, with a significant	Treadwell, 2025	USA	Systematic review and meta-analysis	Migraine	NPIs
burden on public health. In Brazil alone, headaches	Çöme, 2025	Turkey	RCT	Migraine	Alternated nasal breathing (ANB)
account for 9% of acute problem consultations <sup>1</sup> .	Jonker, 2022	UK	Cohort	Migraine	Headache diary app
Furthermore, a study has shown that 6.1% of the	Xie, 2022	China	RCT	Migraine	Tai Chi
Brazilian population lives with chronic daily	Martin, 2021	USA	Review	Migraine	Pharmacological and NPIs
headaches <sup>2</sup> .	Ashina, 2021	UK	Systematic review	Migraine	Pharmacological and NPIs
Given that primary healthcare is founded on the	Minen, 2020	USA	RCT	Migraine	Progressive muscle relaxation
principles of longitudinality, and considering the	Walter, 2020	USA	Review	Primary headaches	Pharmacological and NPIs
extensive literature on preventive therapies for	Blumenfeld, 2020	USA	Manuscript	Migraine	Pharmacological
primary headaches, these services present a	Biglione, 2019	USA	Review	Migraine	Aspirin
valuable opportunity to provide comprehensive care for these patients.	Aguirrezabal, 2019	Spain	RCT	Migraine	Group education
	Robblee, 2019	USA	Review	Migraine	NPIs
This study presents a literature review focused on prophylactic possibilities for primary headaches	Steiner, 2019	UK	Consensus	Primary and secondary headaches	Pharmacological and NPIs
within the context of primary healthcare.	D   0017			Primary and	

Canada

USA

USA

USA

USA

USA

Netherlands

Australia

Legend: NPIs: Non-pharmacological interventions; RCT: Randomized controlled trial

Review

Review

Review

Review

**RCT** 

RCT

Systematic review

Systematic review

secondary headaches

Migraine and tension

Migraine and tension

secondary headaches

Migraine

Migraine

Primary and

Migraine

Migraine

Objectives

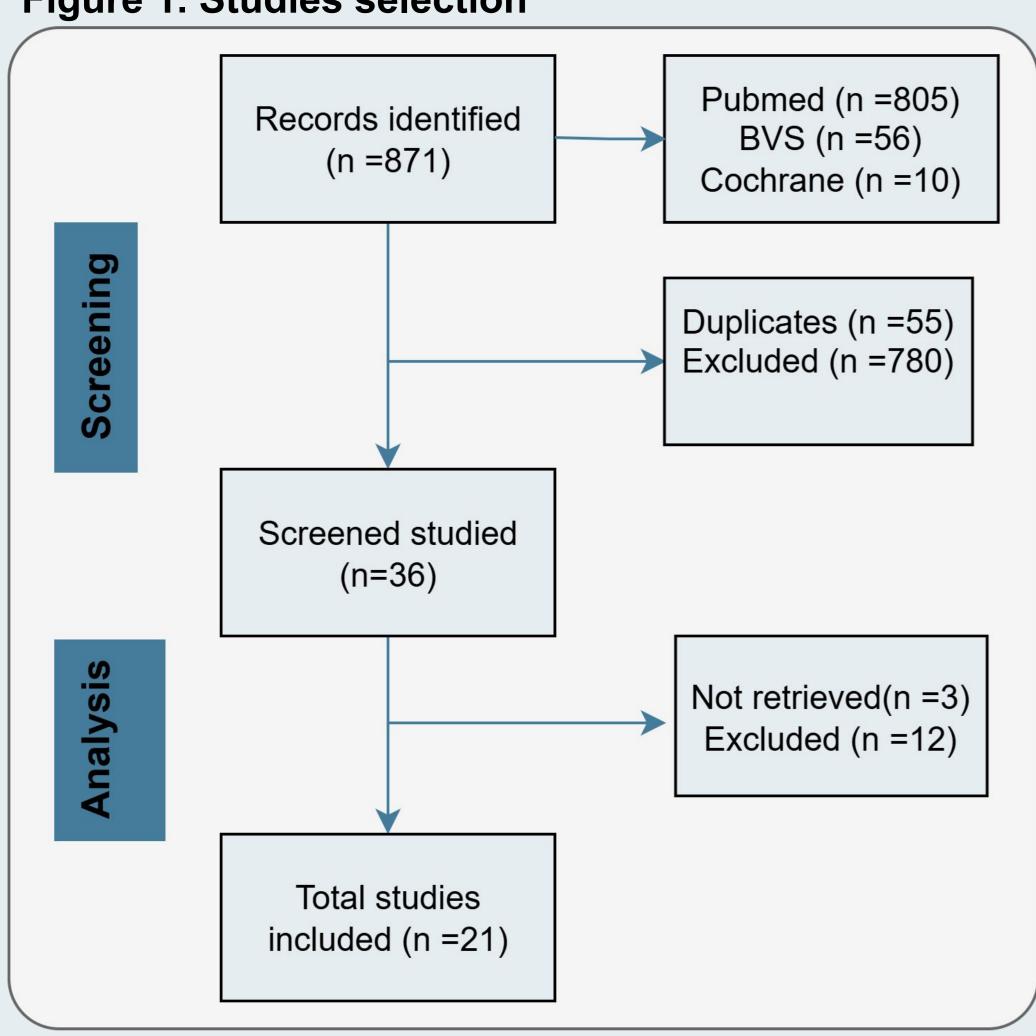
This study aims to evaluate the existing literature on prophylactic treatments for primary headaches. Our specific objectives are:

- To analyze the trends of previously conducted studies and identify potential gaps in the current literature.
- To assess the strategies found and discuss their within the Brazilian applicability potential primary healthcare system.

## Methods

This literature review was conducted through searches in the Cochrane Library, PubMed, SciELO, and BVS (Biblioteca Virtual em Saúde) databases. Controlled descriptors and their synonyms related to "primary care" and "primary headaches" were used. Articles were excluded if they addressed solely secondary headaches, focused solely on acute management, or did not involve a primary care context. Duplicates, articles older than 10 years, and those not meeting relevance criteria were excluded. The selection process is described in Figure 1, resulting in 21 articles included in the final analysis.

Figure 1. Studies selection



# Results

Becker, 2017

Millstine, 2017

Silberstein, 2016

Veenstra, 2015

Martin, 2015

Becker, 2015

Singer, 2015

Starling, 2015

In Figure 2, we present the thematic prevalence among the reviewed articles based on the type of headache addressed. All articles covered migraine, with a minority of those with different specifications.

We divided the prophylactic interventions found into

- 1) Pharmacologicals, such as antidepressants, beta-blockers, anticonvulsants and OnabotulinumtoxinA;
- 2) Non-pharmacological (mainly cognitive behavioral therapy, biofeedback, relaxation techniques and lifestyle modification).

One study addressed a structural intervention involving nursing team support. The complete list and prevalence of these interventions are detailed in Table 2.

Table 2. Interventions

Pharmacological(n=10)					NPI(n=18)						
AD	90%	AC	90%	COC	20%	CBT	66.6%	Mindfulness	22.2%	Diary	33.3%
BB	90%	ASA	10%	Other	80%	ANB	5.5%	Biofeedback	61.1%	RT	61.1%
OxA	90%	CGRP	50%			LM	61.1%	Education	50%	Tai Chi	11.1%
									-		

Legend: AD: Antidepressants; BB: Beta-blockers; Oxa: OnabotulinumtoxinA; AC: Other 27.7% Anticonvulsants; ASA: Aspirin; COC: Combined oral contraceptives; LM: Lifestyle modifications; RT: Relaxation techniques

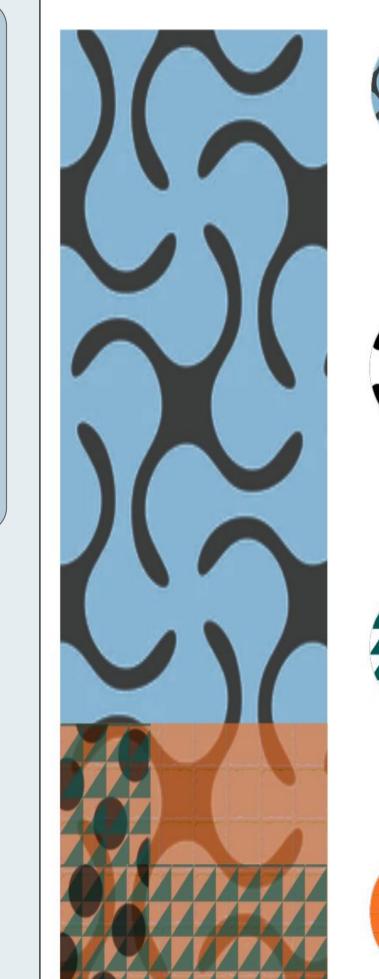
#### Discussion

Medications such as beta-blockers, antidepressants, and anticonvulsants are readily available in public Brazilian healthcare systems, according to Rename<sup>3</sup>, with some classified as basic components that can be effectively initiated and monitored.

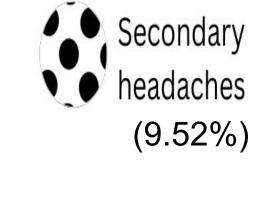
We emphasize the critical role of patient education, lifestyle modifications (e.g., sleep hygiene, stress management), and simple tools like headache diaries, which empower individuals and improve treatment adherence. Furthermore, integrating practices like cognitive-behavioral therapy and acupuncture offers significant benefits in reducing headache frequency and disability.

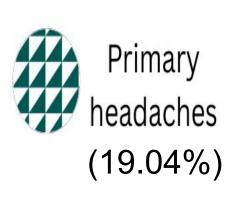
Some primary care resources in Brazil represent a possible mean to included said NPIs, such as eMulti<sup>4</sup> and Programa Academia da Saúde (PAS)<sup>5</sup>.

Figure 2. Headache types prevalence











# Conclusions

The main findings of this review are

Pharmacological and NPIs

Pharmacological and NPIs

Cognitive behavioral therapy

Pharmacological and NPIs

Pharmacological and NPIs

Nursing support

NPIs

NPIs

- an undervaluing of 1. There is prophylactic strategies for tension-type headaches.
- Non-pharmacological approaches represent a valuable therapeutic opportunity that can be effectively integrated into primary care.

Further studies are needed to evaluate the efficacy of interventions within primary healthcare settings. Additionally, given the significant role of medication overuse headache (MOH) found in the literature, its influence in this context requires further exploration.

### References

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