#### **SIGNIFICANCE:**

The treatment of hypertension through health promoting, nonpharmacological methods may be sought by individuals looking for an improved quality of life. Lifestyle modifications for hypertensive patients can lead to a decrease in blood pressure, improved health habits, and possibly a decrease in the amount of medications taken.

## **SEARCH STRATEGY:**

When gathering research for our project, we utilized the following databases: MEDLINE, PubMed, Academic Search Premier, Cochrane Library, and CINAHL. The key words we used during our search included "hypertension," "stress management," "non-pharmacological," and "holistic approach." The articles chosen from the databases included a systematic review, a narrative review, single experimental studies, quasi-experimental studies, and a clinical guideline.

# **REVIEW OF EVIDENCE:**

- improve lipid and blood glucose profiles (Ziv, A. et al. 2013). LOE II
- LOE V
- exercise that need to lower blood pressure (Subramanian, H. et al. 2011). LOE II
- outcomes for hypertensive patients (Chang, A. 2012). LOE III
- result in medication cessation (Dusek, J. et al. 2008). LOE II
- blood pressure (Murphy, S. et al. 2011). LOE III
- 2009). LOE V
- LOE III

## **NON-PHARMACOLOGICAL TECHNIQUES** FOR HYPERTENSION MANAGEMENT Anna Grace Blackman, Marybeth Norton, Aaron Vollenweider, Seth Perry, Cora Wolfington, and Caroline Wisdom





PICO QUESTION: Among adults with hypertension, can nonpharmacological techniques be as effective as drug therapy alone to control and lower blood pressure?

Hypertensive individuals can make lifestyle changes that lower BP, reduce medication usage, ar

• Yoga and yoga-like interventions are useful for lowering BP in patients (Tyagi, A. & Cohen, M. 2014

· Salt reduction and yoga should be advocated for those who are not able to perform physic

Nursing-led empowerment therapy has the potential to improve the standard of care and t

Relaxation and lifestyle modifications have the potential to significantly reduce blood pressure a

Regardless of whether a patient has a comorbidity, naturopathy and yoga are beneficial in loweri

• To successfully treat hypertension a holistic approach is necessary (DeSimone, E. & Crowe,

• Tai Chi has the potential to lower blood pressure in hypertensive patients (Lo, H. M. et al. 2012

Adherence and use of pharmacological treatments are important; however, nonpharmacological methods still have the potential to significantly improve blood pressure (James, P. 2014). LOE I

To further studies for the treatment of hypertension, researchers should explore the beneficial effects of physical activity and diet on systolic and diastolic blood pressure. There is currently research that supports these practices, but perhaps additional longitudinal studies could be conducted that discuss the costs of pharmacological treatments in comparison to nonpharmacological treatments. Researchers should also strive to establish more well-designed studies that eliminate extraneous variables in patient outcomes. In implementing these improvements, it is imperative that health care providers receive additional education on complementary and alternative medicines.



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### **RECOMMENDATIONS:**

- improve clinical outcomes. - Grade: A
- psychological needs, and physiological needs. - Grade: A
- grains, fruits, and vegetables. - Grade: A
- Grade: B
- hypertension.
  - Grade: B





**DISCUSSION:** 

 Nurse practitioners should incorporate non-pharmacological interventions in the treatment and management of hypertension to

Nurses should utilize a holistic approach by addressing dietary needs,

• For patients unable to participate in physical activity, nurses should encourage a reduction in salt intake and a balanced diet of whole

 Nurses should teach patients to utilize relaxation techniques daily, such as breathing exercises and meditation to lower blood pressure.

Nurses should encourage yoga practices when treating patients with