

CADTH Reference List

Replacement of Continuous Positive Airway Pressure Machines and Supplies

October 2021

Authors: Camille Santos, Hannah Loshak

Cite As: *Replacement of Continuous Positive Airway Pressure Machines and Supplies*. (CADTH reference list: summary of abstracts). Ottawa: CADTH; 2021 Oct.

Disclaimer: The information in this document is intended to help Canadian health care decision-makers, health care professionals, health systems leaders, and policy-makers make well-informed decisions and thereby improve the quality of health care services. While patients and others may access this document, the document is made available for informational purposes only and no representations or warranties are made with respect to its fitness for any particular purpose. The information in this document should not be used as a substitute for professional medical advice or as a substitute for the application of clinical judgment in respect of the care of a particular patient or other professional judgment in any decision-making process. The Canadian Agency for Drugs and Technologies in Health (CADTH) does not endorse any information, drugs, therapies, treatments, products, processes, or services.

While care has been taken to ensure that the information prepared by CADTH in this document is accurate, complete, and up to date as at the applicable date the material was first published by CADTH, CADTH does not make any guarantees to that effect. CADTH does not guarantee and is not responsible for the quality, currency, propriety, accuracy, or reasonableness of any statements, information, or conclusions contained in any third-party materials used in preparing this document. The views and opinions of third parties published in this document do not necessarily state or reflect those of CADTH.

CADTH is not responsible for any errors, omissions, injury, loss, or damage arising from or relating to the use (or misuse) of any information, statements, or conclusions contained in or implied by the contents of this document or any of the source materials.

This document may contain links to third-party websites. CADTH does not have control over the content of such sites. Use of third-party sites is governed by the third-party website owners' own terms and conditions set out for such sites. CADTH does not make any guarantee with respect to any information contained on such third-party sites and CADTH is not responsible for any injury, loss, or damage suffered as a result of using such third-party sites. CADTH has no responsibility for the collection, use, and disclosure of personal information by third-party sites.

Subject to the aforementioned limitations, the views expressed herein do not necessarily reflect the views of Health Canada, Canada's provincial or territorial governments, other CADTH funders, or any third-party supplier of information.

This document is prepared and intended for use in the context of the Canadian health care system. The use of this document outside of Canada is done so at the user's own risk.

This disclaimer and any questions or matters of any nature arising from or relating to the content or use (or misuse) of this document will be governed by and interpreted in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein, and all proceedings shall be subject to the exclusive jurisdiction of the courts of the Province of Ontario, Canada.

The copyright and other intellectual property rights in this document are owned by CADTH and its licensors. These rights are protected by the Canadian *Copyright Act* and other national and international laws and agreements. Users are permitted to make copies of this document for non-commercial purposes only, provided it is not modified when reproduced and appropriate credit is given to CADTH and its licensors.

About CADTH: CADTH is an independent, not-for-profit organization responsible for providing Canada's health care decision-makers with objective evidence to help make informed decisions about the optimal use of drugs, medical devices, diagnostics, and procedures in our health care system.

Funding: CADTH receives funding from Canada's federal, provincial, and territorial governments, with the exception of Quebec.

Questions or requests for information about this report can be directed to requests@cadth.ca

Key Message

- No evidence-based guidelines were identified regarding the replacement and maintenance of continuous positive airway pressure machines and supplies for adults with obstructive sleep apnea.

Research Question

What are the evidence-based guidelines regarding the replacement and maintenance of continuous positive airway pressure machines and supplies for adults with obstructive sleep apnea?

Methods

Literature Search Methods

A limited literature search was conducted by an information specialist on key resources including MEDLINE, the Cochrane Database of Systematic Reviews, the international HTA database, the websites of Canadian and major international health technology agencies, as well as a focused internet search. The search strategy comprised both controlled vocabulary, such as the National Library of Medicine's MeSH (Medical Subject Headings), and keywords. The main search concept was continuous positive airway pressure. CADTH-developed search filters were applied to limit retrieval to guidelines. Where possible, retrieval was limited to the human population. The search was also limited to English-language documents published between January 1, 2016 and September 21, 2021. Internet links were provided, where available.

Selection Criteria and Summary Methods

One reviewer screened literature search results (titles and abstracts) and selected publications according to the inclusion criteria presented in Table 1. Full texts of study publications were not reviewed. The Overall Summary of Findings was based on information available in the abstracts of selected publications. Open-access full-text versions of evidence-based guidelines were reviewed when abstracts were not available and relevant recommendations were summarized.

Results

No evidence-based guidelines were identified regarding the replacement and maintenance of continuous positive airway pressure machines and supplies for adults with obstructive sleep apnea.

References of potential interest that did not meet the inclusion criteria are provided in Appendix 1.

Table 1: Selection Criteria

Criteria	Description
Population	Adults (≥ 18 years of age) with obstructive sleep apnea
Intervention	CPAP machines and supplies
Comparator	Not applicable
Outcomes	Recommendations regarding best practices (e.g., cleaning and maintenance protocols, recommended replacement intervals for CPAP machines and supplies [e.g., masks, filters, tubing])
Study designs	Evidence-based guidelines

CPAP = continuous positive airway pressure.

Overall Summary of Findings

No relevant evidence-based guidelines were identified regarding the replacement and maintenance of continuous positive airway pressure machines and supplies for adults with obstructive sleep apnea; therefore, no summary can be provided.

References

Guidelines and Recommendations

No literature identified.

Appendix 1: References of Potential Interest

Guidelines and Recommendations

Methods Not Specified

1. Evaluation background: continuous positive airway pressure (CPAP) units. Plymouth Meeting (PA): ECRI Institute; 2020: www.ecri.org. Accessed 2021 Sep 22.
2. Positive airway pressure units, noninvasive. Plymouth Meeting (PA): ECRI Institute; 2020: www.ecri.org. Accessed 2021 Sep 22.

Additional References

3. American Sleep Apnea Association. Care and replacement of CPAP equipment; 2021: <https://www.sleepapnea.org/treat/cpap-therapy/care-and-replacement-of-cpap-equipment/> Accessed 2021 Sep 22.