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Appraisal

In adults with chronic obstructive pulmonary disease, long-term telerehabilitation and unsupervised home-based treadmill training reduced hospitalisations and emergency department presentations compared with usual care [commentary]

Commentary

There is growing importance placed on offering patients choice in their health and care, and increasing interest in alternative models of rehabilitation, both of which are addressed in this timely and complex trial, for which the authors should be congratulated.

Zanaboni and colleagues demonstrated significantly lower incidence rates of combined hospitalisations and emergency department visits amongst participants with chronic obstructive pulmonary disease who underwent 2 years of telerehabilitation or unsupervised rehabilitation compared with those receiving standard care.

The primary outcomes used in previous trials of long-term/maintenance rehabilitation programs have typically included rehabilitation-specific or disease-specific measures (eg, BODE index). The use of healthcare resource utilisation data as the primary outcome in this trial was novel, meaningful to patients and highly relevant to healthcare funders.

The result of the primary analysis is impressive, but the rationale underpinning it is unclear, as the authors were unable to provide intervention fidelity data and did not undertake qualitative research to explore participants' experiences and healthcare-seeking behaviours. In addition, it would be informative to understand why the incidence rates were similar for resource-intensive telerehabilitation and unsupervised rehabilitation where participants were provided with a treadmill. This in conjunction with the health economic analysis could inform rehabilitation policy.

One of the purposes in offering choice in rehabilitation programs is to increase access to these services. However, 38% of adults did not meet the inclusion criteria because of their home environment. This reinforces the need for inclusive programs to ensure equity of access. Additionally, alternative programs require specific investment by healthcare funders and care must be taken to avoid further reducing the availability of gold-standard in-person rehabilitation. Further exploration of where alternative programs should be placed in care pathways and how patients are supported in choosing the most appropriate program is required.

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References

- 1. Cox NS, et al. Cochrane Database Syst Rev. 2021:1:CD013040.
- 2. Guell M, et al. Am J Respir Crit Care Med. 2017;195:622-629.