



EFFECTIVE DATE: 07|01|1999

POLICY LAST REVIEWED: 01|21|2026

OVERVIEW

Home spirometry devices allow for the monitoring of pulmonary function in the home. Their primary proposed use is by lung transplant recipients to aid in the early diagnosis of infection and rejection. They can potentially also be used in other situations that require pulmonary function monitoring.

MEDICAL CRITERIA

Not applicable

PRIOR AUTHORIZATION

Not applicable

POLICY STATEMENT

Medicare Advantage Plans

Home monitoring of pulmonary function is not covered as the evidence is insufficient to determine the effects of the technology on health outcomes.

Commercial Products

Home monitoring of pulmonary function is not medically necessary as the evidence is insufficient to determine the effects of the technology on health outcomes.

COVERAGE

Benefits may vary between groups/contracts. Please refer to the appropriate section of the Benefit Booklet, Evidence of Coverage or Subscriber Agreement for not medically necessary/not covered benefits/coverage.

BACKGROUND

In the immediate post-operative period, lung transplant recipients must be carefully monitored for the development of either rejection episodes or infectious complications. Monitoring techniques include complete pulmonary function testing, serial chest X-rays, bronchioalveolar lavage, and transbronchial biopsy. Transbronchial biopsy is thought to be the only objective method of distinguishing between these 2 common complications. Transbronchial biopsy is typically performed on a routine schedule, with additional biopsies performed if the patient becomes symptomatic. Home spirometry is proposed as a technique to provide daily monitoring to promptly identify presymptomatic patients who may benefit from a diagnostic transbronchial biopsy.

Home spirometry uses battery-operated spirometers that permit regular daily measurement of pulmonary function in the home, typically forced expiratory volume in 1 second (FEV-1) and forced vital capacity (FVC). The device has been primarily investigated among lung transplant recipients as a technique to provide early diagnosis of infection and rejection. Home spirometry may also be referred to as ambulatory spirometry.

There are few studies on home spirometry use and most of the available literature did not evaluate the impact of home spirometry use on health outcomes. The evidence is insufficient that home spirometry improves the net health outcome and, thus, the technology is considered not medically necessary.

CODING

Medicare Advantage Plans and Commercial Products

The following codes are not covered for Medicare Advantage Plans and not medically necessary for Commercial Products:

- 94014** Patient-initiated spirometric recording per 30-day period of time; includes reinforced education, transmission of spirometric tracing, data capture, analysis of transmitted data, periodic recalibration and physician review and interpretation
- 94015** Patient-initiated spirometric recording per 30-day period of time; recording (includes hook-up, reinforced education, data transmission, data capture, trend analysis, and periodic recalibration)
- 94016** Patient-initiated spirometric recording per 30-day period of time; physician review and interpretation only

RELATED POLICIES

None

PUBLISHED

Provider Update, March 2026

Provider Update, March 2025

Provider Update, March 2024

Provider Update, April 2023

Provider Update, June 2022

REFERENCES

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2. Fracchia C, Callegari G, Volpato G et al. Monitoring of lung rejection with home spirometry. *Transplant Proc* 1995; 27(3):2000-1. 3.
3. Adam TJ, Finkelstein SM, Parente ST et al. Cost analysis of home monitoring in lung transplant recipients. *Int J Technol Assess Health Care* 2007; 23(2):216-22. 4.
4. Kugler C, Fuehner T, Dierich M et al. Effect of adherence to home spirometry on bronchiolitis obliterans and graft survival after lung transplantation. *Transplantation* 2009; 88(1):129-34.
5. Guihot A, Becquemin MH, Couderc LJ et al. Telemetric monitoring of pulmonary function after allogeneic hematopoietic stem cell transplantation. *Transplantation* 2007; 83(5):554-60. 6.
6. Brouwer AF, Roorda RJ, Brand PL. Comparison between peak expiratory flow and FEV(1) measurements on a home spirometer and on a pneumotachograph in children with asthma. *Pediatr Pulmonol* 2007; 42(9):813-8.

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