In aggregate US commercial data with nonstandardized PAP coverage rules, concordance between existing claims-based definitions and objective PAP use was low. Caution is warranted when applying existing claims-based algorithms to commercial populations.

### STUDY DESIGN

Retrospective analysis of PAP adherence for OSA based on administrative claims data for commercially insured patients (N=213,341)

Compared device usage data vs claims-based algorithms

### RESULTS

#### ADHERENCE

48% adherence in first year based on device usage

Consistently higher use across all metrics compared with claims-based
- 339.9 vs 260 to 290 days of use
- 6.6 vs 5.1 to 5.6 d/wk
- 6.4 vs 4.6 to 5.2 h/d

Between 10% and 84% identified as adherent based on claims with accuracy 53% to 68%

- Patients who used PAP consistently were frequently identified as nonadherent
- Many patients who used PAP inconsistently classified as adherent

In a Commercially Insured Population, How Well Do Claims-Based Algorithms for Adherence Correspond to Objective Use?