

Adjudication Guideline

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Rule Category: Medical

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Abstract

For Members

Spirometry is a simple test used to help diagnose and monitor certain lung conditions by measuring how much air can be breath out in one forced breath. It's carried out using a device called a spirometer, which is a small machine attached by a cable to a mouthpiece.

Conditions that can be picked up and monitored using spirometry include:

- asthma a long-term condition in which the airways become periodically inflamed (swollen) and narrowed
- chronic obstructive pulmonary disease (COPD) a group of lung conditions where the airways become narrowed
- cystic fibrosis a genetic condition in which the lungs and digestive system become clogged with thick, sticky mucus
- pulmonary fibrosis scarring of the lungs.

For Medical Professionals

Spirometry measures the rate at which the lung changes volume during forced breathing maneuvers. Spirometry begins with a full inhalation, followed by a forced expiration that rapidly empties the lungs. Expiration is continued for as long as possible or until a plateau in exhaled volume is reached. These efforts are recorded and graphed. Spirometry is a powerful tool that can be used to detect, follow, and manage patients with lung disorders. There can be:

- 1. Restrictive ¹: such as Pulmonary fibrosis, Neuromuscular disorders, pulmonary oedema
- 2. Obstructive 1: such as Chronic obstructive pulmonary disease (COPD), Asthma, Bronchiectasis/cystic fibrosis, Bronchiolitis, a1 - antitrypsin deficiency

Approved by: Daman

Responsible: Medical Standards & Research

Related Adjudication Guidelines: NA

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PUBLIC



Scope

The scope of this adjudication rule is to highlight the medical necessity and coverage of spirometry for all health insurance plans administered by DAMAN subject to policy terms and conditions.

Adjudication Policy

Eligibility / Coverage Criteria

Indications for spirometry ¹

- A. The evaluation of symptoms, signs or abnormal investigations:
 - 1. Symptoms:
 - chronic cough lasting 8 weeks or longer ²
 - chronic dyspnoea lasting more than one month ³
 - wheeze is asthmatic patients, orthopnoea, sputum production
 - 2. Signs:
 - chest deformity (barrel chest)
 - cyanosis
 - prolonged expiration
 - wheeze/stridor
 - 3. unexplained crackles
- B. Investigations 4: To evaluate abnormal lab tests such as:
 - 1. Pulse oxygen saturation Assessment of oxygen saturation can be used to identify a gas transfer defect and to titrate the amount of oxygen needed to maintain adequate oxygenation.
 - 2. Arterial blood gases ABGs are a helpful adjunct to pulmonary function testing in selected patients. The primary role of measuring ABGs in stable outpatients is to confirm hypercapnia when it is suspected based on clinical history (e.g., respiratory muscle weakness, advanced COPD), an elevated serum bicarbonate level, and/or chronic hypoxemia
- C. To follow the course of disease and assess prognosis (Obstructive/restrictive/Asthma), Please refer to table 2.
- D. To monitor therapy 4:
 - when performed before and after bronchodilator, it is useful to assess for asthma
 or other causes of airflow obstruction in the evaluation of chronic cough. It is also
 used to monitor a broad spectrum of respiratory diseases, including asthma,
 COPD, interstitial lung disease, and neuromuscular diseases affecting respiratory
 muscles.
 - 2. It be used to monitor response to biologic drugs
- E. To assess preoperative risk in patients ⁴:
 Spirometry is useful for determining the risk of postoperative pulmonary complications in certain high-risk situations, including patients known to have COPD or asthma, current smokers, and those scheduled for thoracic or upper abdominal surgery. If spirometry demonstrates moderate to severe obstruction and the surgery can be delayed, a prophylactic program of pulmonary hygiene, including smoking cessation, inhaled bronchodilators or glucocorticoids, and possibly antibiotics for bronchitis, will



reduce the risk. However, the results of spirometry alone should not be used to deny surgery. Combining the results of spirometry with radioisotope or CT lung scans is also useful for predicting the remaining lung function following a lobectomy or pneumonectomy

F. Screening for employment status at risk of having pulmonary disease.

Table 2. Suggested pattern based on FEV1 & FVC 5:

Suggested Pattern	FEV1/FVC	FVC
Normal	Normal	Normal
Restrictive	Normal	Decreased
Obstructive	Decreased	Normal
Mixed (obstructive/Restrictive)	Decreased	Decreased

Contraindications 6

If any of the following have occurred recently, then it may be better to wait until the patient has fully recovered before carrying out spirometry.

- Haemoptysis of unknown origin
- Pneumothorax
- Unstable cardiovascular status, recent myocardial infarction or pulmonary embolism
- Thoracic, abdominal or cerebral aneurysms
- Recent eye surgery
- Acute disorders affecting test performance, such as nausea or vomiting
- Recent thoracic or abdominal surgical procedures

Eligible clinician specialty

Eligible Clinician Speciality
General Practitioner
Medical Practitioner
Critical Care Medicine
Neurology
General Paediatric
Emergency Medicine
Pediatric Cardiology
Family Medicine



Cardiovascular Disease Internal Medicine Paediatrics/ Pulmonology Internal Medicine/ Pulmonary Disease Paediatric Intensive Care Physical Medicine and Rehabilitation Cardiology Paediatric Neurology Respiratory Medicine Critical Care Medicine Critical Care Med / Infectious Diseases Rheumatology Medical Oncology Allergy and Immunology. Internal Medicine/ Medical Oncology Internal Medicine/ Rheumatology Internal Medicine/ Cardiovascular Disease Paediatric Immunology and Allergy Infectious Diseases Paediatric Emergency Medicine Emergency Medicine/ Critical Care Adolescent Medicine Pulmonary Disease Paediatric Rheumatology Cardiology/Interventional cardiology Paediatric Oncology Paediatric Infectious Disease Occupational Medicine **Emergency Medical Services** Paediatric Pulmonology Internal Medicine/ Critical Care Medicine Pulmonary Disease/ Critical Care Medicine Internal Medicine/ Neurology



Internal Medicine/ Infectious Diseases		
Clinical Immunology & Allergy		
Rheumatology/Immunology and Allergy		
Respiratory Medicine/ Critical Care Medicine		
Internal Medicine / Pulmonary Disease / Critical Care Medicine		
Paediatrics/ Cardiology		
Emergency Medicine / Undersea and Hyperbaric Medicine		
Paediatrics/ Critical Care Medicine		
Int Med/Pulmonary and Sleep Medicine		
Paediatric Rehabilitation Medicine		
Paediatrics/ Infectious Diseases		
Allergy		
Family Medicine / Adolescent Medicine		
Cardiac Surgery		

Requirements for Coverage

Failure to submit, upon request or when requesting a clinical history, indication the need for testing will result in rejection of claim.

Non-Coverage

Not covered for visitor plans

Payment and Coding Rules

Please apply regulator payment rules and regulations and relevant coding manuals for ICD, CPT, etc.

Denial codes: Regulator denial codes with description are elaborated for reference. These are specialized codes directed by regulator, that explains the reason of rejection of the service by DAMAN to the providers.

Code	Code description
MNEC-003	Service is not clinically indicated based on good clinical practice
MNEC-004	Service is not clinically indicated based on good clinical practice, without additional supporting diagnoses/activities
CODE-010	Activity/diagnosis inconsistent with clinician specialty



Appendices

Additional Information

JAWADA clinical quality KPI: not applicable

A. References

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- 3. https://www.aafp.org/afp/2012/0715/p173.html#:~:text=Chronic%20dyspnea%20has%20been%20defined,When%20shortness%20of%20breath%20is
- 4. https://www.uptodate.com/contents/overview-of-pulmonary-function-testing-in-adults?search=spirometry&source=search_result&selectedTitle=2~150&usage_type=default&display_rank=2
- 5. https://www.aappublications.org/content/32/12/25
- 6. https://breathe.ersjournals.com/content/8/3/232
- 7. https://www.lung.org/lung-health-diseases/lung-procedures-and-tests/spirometry
- 8. https://www.brit-thoracic.org.uk/quality-improvement/clinical-resources/copd-spirometry/spirometry/
- 9. https://www.health.qld.gov.au/__data/assets/pdf_file/0026/147653/qh-gdl-386.pdf
- 10. https://www.aappublications.org/content/32/12/25
- 11. https://wwwn.cdc.gov/nchs/data/nhanes/2011-2012/manuals/spirometry_procedures_manual.pdf
- 12. https://www.dynamed.com/evaluation/pulmonary-function-tests#GUID-161F0DD5-CC3F-485A-94D0-520A4ED0B7A1

B. Revision History

Date	Change(s)
09/02/2021	Release of V1.0