

**Lung Transplant
 SRG-011**

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|-------------------------------|--------------------------------------|------------------------|-----------|
| Iowa Medicaid Program: | Pre-Procedure | Effective Date: | 9/11/2009 |
| Revision Number: | 7 | Last Rev Date: | 1/19/2024 |
| Reviewed By: | Lung Transplant Consultant, MMD | Next Rev Date: | 1/17/2025 |
| Approved By: | Medicaid Clinical Advisory Committee | Approved Date: | 9/21/2019 |

Criteria

Pre-procedure review is required.

Lung transplants are considered medically necessary when **ALL** the following are met:

1. Members having end-stage pulmonary disease; **AND**
2. Must have clearance from psycho/social necessity consult. Evaluation should include an assessment of the member’s ability to give informed consent and comply with instructions including drug therapy, as well as assessment of the support systems in place at home or in the community (Level of Evidence: C); **AND**
3. Dental exam and clearance must be provided; **AND**
4. Must be abstinent of all street drugs and alcohol. Physician documentation must specifically address abstinence. Need for laboratory testing to confirm sobriety may be at the discretion of the attending physician; **AND**
5. Documentation of underlying co-morbidity must be provided; **AND**
6. Pertinent lab values must be provided; **AND**
7. Results from a ventilation-perfusion scan are preferred; **AND**
8. Chest computed tomography and/or chest x-ray; **AND**
9. Abdominal ultrasound study; **AND**
10. Pulmonary rehab notes showing satisfactory compliance and attendance; **AND**
11. Cardiac catheterization results; **AND**
12. Results from a tuberculosis skin test; **AND**
13. Pulmonary function tests with FEV1 of 25 percent of the predicted value or less with arterial blood gas results.

Contraindications

Transplantation cannot be approved in the presence of the following:

1. Substance addiction (e.g., alcohol, tobacco, narcotics) that is either active or within the last 6 months; **OR**
2. Malignancy in the last 2 years, with the exception of cutaneous squamous and basal cell tumors. In general, a 5-year disease-free interval is prudent; **OR**

3. Untreatable advanced dysfunction of another major organ system (exception for dual-organ transplants); **OR**
4. Incurable chronic infection including chronic active viral hepatitis B, hepatitis C, and human immunodeficiency virus; **OR**
5. Documented non-compliance or inability to follow through with medical therapy or office follow-up, or both; **OR**
6. Any psychiatric or psychological condition resulting in the inability to cooperate or comply with medical therapy; **OR**
7. Absence of a consistent or reliable social support system.

Relative Contraindications

1. Relative age limit which can span from 65-75 years of age.
2. Severe or symptomatic osteoporosis.
3. Class I obesity with a BMI of 30-35.
4. Severe or progressive malnutrition.
5. Extensive prior thoracic surgery with lung resection.
6. Various high resistant infectious agents such as Aspergillus, Scedosporium, nontuberculous bacterium, multidrug-resistant bacteria, Burkholderia species.
7. HIV infection with a detectable viral load.

Other coverage issues

1. Covered lung transplants are only payable when performed in a facility that meets the requirements under Iowa Administrative Code (IAC) 441-78.3(10).
2. Criteria for covered heart-lung transplants are found under criteria for heart transplants.
3. Donor expenses incurred directly in connection with a covered transplant are payable.
4. Expenses incurred for complications that arise with respect to the donor are covered only if they are directly and immediately attributed to surgery.
5. Expenses of searching for a donor are not covered.

Coding

The following list of codes is provided for reference purposes only and may not be all inclusive. The inclusion of a code does not imply any right to reimbursement or guarantee claim payment, nor does the exclusion of a code imply that its association to the HCPCS/CPT code is inappropriate.

| CPT | Description |
|-------|--|
| 32851 | Lung transplant, single; without cardiopulmonary bypass. |
| 32852 | Lung transplant, single; with cardiopulmonary bypass. |
| 32853 | Lung transplant, double (bilateral sequential or en bloc); without cardiopulmonary bypass. |
| 32854 | Lung transplant, double (bilateral sequential or en bloc); with cardiopulmonary bypass. |

Compliance

1. Should conflict exist between this policy and applicable statute, the applicable statute shall supersede.
2. Federal and State law, as well as contract language, including definitions and specific contract provisions or exclusions, take precedence over medical policy and must be considered first in determining eligibility for coverage.
3. Medical technology is constantly evolving, and Iowa Medicaid reserves the right to review and update medical policy on an annual and as-needed basis.

Medical necessity guidelines have been developed for determining coverage for member benefits and are published to provide a better understanding of the basis upon which coverage decisions are made. They include concise clinical coverage criteria based on current literature review, consultation with practicing physicians in the service area who are medical experts in the particular field, FDA and other government agency policies, and standards adopted by national accreditation organizations. Criteria are revised and updated annually, or more frequently if new evidence becomes available that suggests needed revisions.

References

441 IAC 78.1(20)"a"(6).

Ohler, L. & Cupples, S., (2008). Core Curriculum for Transplant Nurses. Mosby Elsevier, Philadelphia, PA.

Listing Criteria for Heart Transplantation (Guidelines) (J Heart Lung Transplant 2006:25(9): 1024-1042).

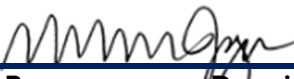

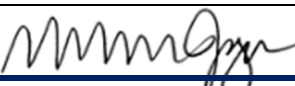
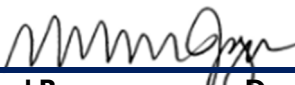
International Guidelines for the Selection of Lung Transplant Candidates: 2006 Update - A Consensus Report from the ISHLT Pulmonary Scientific Council (Consensus Document) (J Heart Lung Transplant 2006:25(7) 745-755).

Chambers DC. The International Thoracic Organ Transplant Registry of the International Society for Heart And Lung Transplantation: 38 adult lung transplantation report–2021.

Weil D, Journal of Heart Lung Transplant 2015; 34:1. Consensus document with selection of lung transplant candidates.

Development of utilization management criteria may also involve research into other state Medicaid programs, other payer policies, consultation with experts and review by the Medicaid Clinical Advisory Committee (CAC). These sources may not be referenced individually unless they are specifically published and are otherwise applicable to the criteria at issue.

Criteria Change History

| Change Date | Changed By | Description of Change | Version |
|---|----------------------------|---|---------|
| Signature | | | |
| Change Date | Changed By | Description of Change | Version |
| Signature | | | |
| Change Date | Changed By | Description of Change | Version |
| 1/19/2024 | CAC | Annual specialist review. Added Relative Contraindications sub-section. | 7 |
| Signature William (Bill) Jagiello, DO  | | | |
| Change Date | Changed By | Description of Change | Version |
| 1/20/2023 | CAC | Annual specialist review. | 6 |
| Signature William (Bill) Jagiello, DO  | | | |
| Change Date | Changed By | Description of Change | Version |
| 1/21/2022 | CAC | Annual specialist review. Formatting changes. | 5 |
| Signature William (Bill) Jagiello, DO  | | | |
| Change Date | Changed By | Description of Change | Version |
| 1/16/2015 | Medical Director | Added last paragraph in References. | 4 |
| Signature William (Bill) Jagiello, DO  | | | |
| Change Date | Changed By | Description of Change | Version |
| 11/27/2013 | Lung transplant consultant | Criterion #10 - added "showing satisfactory compliance and attendance". Criterion #13 - added "with FEV1 of 25 percent of the predicted value or less with arterial blood gas results". | 3 |
| Signature | | | |
| Change Date | Changed By | Description of Change | Version |
| 3/22/2013 | Policy | Additions to criteria to reflect details contained in 441 IAC 78.1(20)"a" (6). | 2 |
| Signature | | | |
| Change Date | Changed By | Description of Change | Version |
| 1/18/2013 | CAC | Re-ordering and new information added to Criteria #1-#12. Added Contraindications. Added information under References. | 1 |
| Signature | | | |