COMPRESSIVE ORTHOSES FOR CORRECTION OF PECTUS CARINATUM AND EXCAVATUM

The purpose of this document is to assist providers enrolled in the Connecticut Medical Assistance Program (CMAP) with the information needed to support a medical necessity determination for the use of compressive orthoses to correct pectus carinatum. By clarifying the information needed for prior authorization of services, HUSKY Health hopes to facilitate timely review of requests so that individuals obtain the medically necessary care they need as quickly as possible.

Pectus carinatum is a chest wall deformity caused by overgrowth of the sternum and costal cartilage resulting in an outward protrusion of the sternum. Chondrogladiolar prominence, also known as “chicken breast” or “keel chest”, is the most common type of deformity where the middle and lower portions of the sternum protrude and arch forward. The costal cartilages are concave and usually symmetrically depressed, accentuating the sternal prominence. Chondromanubrial prominence, also known as “pigeon breast” is a more complex and substantially less common form of the deformity where the upper portion of the sternum protrudes anteriorly, and the body of the sternum is deviated posteriorly.

Pectus carinatum is typically noted in childhood and usually worsens during adolescence. Pectus carinatum is primarily a cosmetic concern. When cardiopulmonary function is assessed in patients with pectus carinatum, the findings are generally normal. Pulmonary function tests, chest x-rays and echocardiographs are useful in determining the presence and extent of any cardiopulmonary compromise.

Until recently, the primary treatment for pectus carinatum was surgical reconstruction of the chest wall, however studies suggest that non-operative bracing with a compression orthosis may be an effective, non-invasive treatment modality for mild or moderate forms of the deformity.

Note: Requests for surgical correction of pectus carinatum are reviewed using InterQual® criteria in conjunction with the Department of Social Services’ (DSS) definition of Medical Necessity.

Pectus excavatum is a congenital deformity in which the sternum and rib cage grow abnormally resulting in a “caved-in” or sunken appearance of the chest. While the sunken breastbone is often noticeable shortly after birth, the severity of pectus excavatum typically worsens during adolescence. Pectus excavatum is primarily a cosmetic concern. Surgery is generally reserved for individuals with moderate to severe signs and symptoms due to compression of the heart and lungs.

Note: Requests for surgical correction of pectus excavatum are reviewed using InterQual® criteria in conjunction with the Department of Social Services’ (DSS) definition of Medical Necessity.

CLINICAL GUIDELINE
Coverage guidelines for the use of compressive orthoses to correct pectus carinatum and excavatum are made in accordance with the Department of Social Services (DSS) definition of Medical Necessity. The following criteria are guidelines only. Coverage determinations are based on an assessment of the individual

Please note that authorization is based on medical necessity at the time the authorization is issued and is not a guarantee of payment. Payment is based on the individual having active coverage, benefits and policies in effect at the time of service.

To determine if a service or procedure requires prior authorization, CMAP Providers may refer to the Benefit and Authorization Grids summaries on www.ct.gov/husky by clicking on “For Providers” followed by “Benefit Grids”. For a definitive list of benefits and service limitations, CMAP Providers may access the CMAP provider fee schedules and regulations at www.ctdssmap.com.
and their clinical needs. If the guidelines conflict with the definition of Medical Necessity, the definition of Medical Necessity shall prevail. The guidelines are as follows:

**Pectus Carinatum**
Use of a compressive orthosis to correct pectus carinatum is generally considered medically necessary when the following criteria are met:

1. The costal cartilage has been assessed and found to be flexible; AND
2. The individual has been evaluated for scoliosis (compressive orthoses to correct pectus carinatum are typically not indicated for individuals with moderate to severe scoliosis); AND
3. The individual is willing to adhere to the recommended bracing protocol (number of hours and length of use) as ordered by the physician; AND
4. There is documented evidence of cardiopulmonary compromise (i.e., dyspnea, fatigue, chest pain, exercise intolerance, wheezing) and/or complications resulting from pectus carinatum.

Use of a compressive orthosis to correct pectus carinatum for all other indications is generally considered not medically necessary but may be considered medically necessary based on an assessment of the individual and their unique clinical needs.

**Pectus Excavatum**
The use of a compressive orthosis to correct pectus excavatum is generally considered not medically necessary. Correction of mild pectus excavatum is usually cosmetic in nature. Surgery is typically the recommended treatment for individuals with a moderate to severe deformity leading to compression of the heart and lungs. However, requests for a compressive orthosis to correct pectus excavatum will be reviewed and may be considered medically necessary based on an assessment of the individual and their unique clinical needs.

**NOTE: EPSDT Special Provision**
Early and Periodic Screening, Diagnosis, and Treatment (EPSDT) is a federal Medicaid requirement that requires the Connecticut Medical Assistance Program (CMAP) to cover services, products, or procedures for Medicaid enrollees under 21 years of age where the service or good is medically necessary health care to correct or ameliorate a defect, physical or mental illness, or a condition identified through a screening examination. The applicable definition of medical necessity is set forth in Conn. Gen. Stat. Section 17b-259b (2011) [ref. CMAP Provider Bulletin PB 2011-36].

**PROCEDURE**
Prior authorization for compressive orthoses to correct pectus carinatum is required. Coverage determinations will be based upon a review of requested and/or submitted case-specific information.

The following information is needed to review requests for compressive orthoses to correct pectus carinatum:

1. Fully completed Outpatient Prior Authorization Request Form or fully completed authorization request via on-line web portal;
2. A prescription from a licensed physician enrolled in the Connecticut Medical Assistance Program (CMAP);
3. A description of the specific bracing protocol (number of hours of required wear per day and planned length of use);
4. Documentation from the medical record supporting the medical necessity of the orthosis including,
but not limited to:

a. Current symptoms or complaints related to deformity (i.e. dyspnea, fatigue, chest pain, exercise intolerance, wheezing etc.);

b. Presence of any associated musculoskeletal abnormalities and/or associated syndromes;

c. Findings of a recent physical exam (within 3 months) to include severity of defect and flexibility of costal cartilage;

d. Results of any testing related to current symptoms or complaints (i.e. electrocardiogram, echocardiogram, chest x-ray, CT scan, pulmonary function tests); and

e. Office notes documenting a discussion with patient, where bracing regimen explained and patient verbalized willingness and ability to adhere to regimen;

5. Pricing information (Actual Acquisition Cost (AAC) and breakdown of labor*); and

6. Other information as requested.

*Ref: DSS Pricing Policy for MEDS items available at:
http://www.huskyhealthct.org/providers/policies_procedures.html#

**NOTE:** Labor costs for future visits and future modifications will not be included in the initial cost of the orthosis. All future modifications are to be billed using HCPCS code L4205 – Repair of orthotic device, labor component, per 15 minutes. Providers are allowed to bill 2 units for subsequent follow up visits.

**EFFECTIVE DATE**  
This Policy is effective for prior authorization requests for compressive orthoses to correct *pectus carinatum* for individuals covered under the HUSKY Health Program beginning August 1, 2017.

**LIMITATIONS**  
N/A

**CODES:**

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<tr>
<td>L1499</td>
<td>Spinal orthotic, not otherwise specified</td>
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<tr>
<td>L4205</td>
<td>Repair of orthotic device, labor component, per 15 minutes</td>
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**DEFINITIONS**

1. **HUSKY A:** Connecticut children and their parents or a relative caregiver; and pregnant women may qualify for HUSKY A (also known as Medicaid). Income limits apply.

2. **HUSKY B:** Uninsured children under the age of 19 in higher income households may be eligible for HUSKY B (also known as the Children’s Health Insurance Program) depending on their family income level. Family cost-sharing may apply.

3. **HUSKY C:** Connecticut residents who are age 65 or older or residents who are ages 18-64 and who are blind, or have another disability, may qualify for Medicaid coverage under HUSKY C (this includes Medicaid for Employees with Disabilities (MED-Connect), if working). Income and asset limits apply.

4. **HUSKY D:** Connecticut residents who are ages 19-64 without dependent children and who: (1) do not qualify for HUSKY A; (2) do not receive Medicare; and (3) are not pregnant, may qualify for HUSKY D (also known as Medicaid for the Lowest-Income populations).

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5. **HUSKY Health Program**: The HUSKY A, HUSKY B, HUSKY C, HUSKY D and HUSKY Limited Benefit programs, collectively.

6. **HUSKY Limited Benefit Program or HUSKY, LBP**: Connecticut's implementation of limited health insurance coverage under Medicaid for individuals with tuberculosis or for family planning purposes and such coverage is substantially less than the full Medicaid coverage.

7. **Medically Necessary or Medical Necessity**: (as defined in Connecticut General Statutes § 17b-259b) Those health services required to prevent, identify, diagnose, treat, rehabilitate or ameliorate an individual's medical condition, including mental illness, or its effects, in order to attain or maintain the individual's achievable health and independent functioning provided such services are: (1) Consistent with generally-accepted standards of medical practice that are defined as standards that are based on (A) credible scientific evidence published in peer-reviewed medical literature that is generally recognized by the relevant medical community, (B) recommendations of a physician-specialty society, (C) the views of physicians practicing in relevant clinical areas, and (D) any other relevant factors; (2) clinically appropriate in terms of type, frequency, timing, site, extent and duration and considered effective for the individual's illness, injury or disease; (3) not primarily for the convenience of the individual, the individual's health care provider or other health care providers; (4) not more costly than an alternative service or sequence of services at least as likely to produce equivalent therapeutic or diagnostic results as to the diagnosis or treatment of the individual's illness, injury or disease; and (5) based on an assessment of the individual and his or her medical condition.

8. **Prior Authorization**: A process for approving covered services prior to the delivery of the service or initiation of the plan of care based on a determination by CHNCT as to whether the requested service is medically necessary.

**RESOURCES AND REFERENCES:**
- Centers for Medicare and Medicaid Services (CMS), Health Care Procedural Coding System Level II Manual: 2019

**PUBLICATION HISTORY**

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<th>Status</th>
<th>Date</th>
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<tr>
<td>Update</td>
<td>June 2018</td>
<td>Update to Resources and References Section. Change approved</td>
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<table>
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| Update to Clinical Guideline section for both Pectus Carinatum and Excavatum. Modified language regarding scoliosis, further defined bracing regimen, provided specific examples of cardiopulmonary compromise. Moved clinical information needed for review to Procedure section of policy. Removed language regarding bracing for pectus excavatum being investigational. Added Correction of mild pectus excavatum is usually cosmetic in nature. Surgery is typically the recommended treatment for individuals with a moderate to severe deformity leading to compression of the heart and lungs. However, requests for a compressive orthosis to correct pectus excavatum will be reviewed and may be considered medically necessary based on an assessment of the individual and their unique clinical needs.

Update to Procedure section. Expanded list of information required for medical necessity review to include:
A more detailed description of the specific bracing protocol; documentation from the medical record supporting the medical necessity of the orthosis including, but not limited to: current symptoms or complaints related to deformity (i.e. dyspnea, fatigue, chest pain, exercise intolerance, wheezing etc.); presence of any associated musculoskeletal abnormalities and/or associated syndromes; findings of a recent physical exam (within 3 months) to include severity of defect and flexibility of costal cartilage; results of any testing related to current symptoms or complaints (i.e. electrocardiogram, echocardiogram, chest x-ray, CT scan, pulmonary function tests); and office notes documenting a discussion with patient, where bracing regimen explained and patient verbalized willingness and ability to adhere to regimen.

Updates to Reference section.
Changes approved at the May 8, 2019 CHNCT Medical Reviewer meeting. Changes approved by the CHNCT Clinical Quality Subcommittee on June 19, 2019.

Approved by DSS on June 21, 2019.