Medical Necessity Guidelines: Hematopoietic Stem-Cell Transplantation (HSCT) for the Treatment of Pediatric Solid Tumors

Effective: December 13, 2017

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<tr>
<td>☑ Applies to:</td>
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<tr>
<td>☑ Tufts Health Plan Commercial Plans products; Fax: 617.972.9409</td>
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<tr>
<td>☑ Tufts Health Direct — Health Connector; Fax: 888.415.9055</td>
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<td>☑ Tufts Health Together — A MassHealth Plan; Fax: 888.415.9055</td>
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<td>☑ Tufts Health Unify — OneCare Plan; Fax: 781.393.2607</td>
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<td>☑ Tufts Health RITOgether — A Rhode Island Medicaid Plan; Fax: 857.304.6404</td>
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<tr>
<td>☑ Tufts Health Freedom Plan products; Fax: 617.972.9409</td>
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Note: While you may not be the provider responsible for obtaining prior authorization, as a condition of payment you will need to make sure that prior authorization has been obtained.

OVERVIEW

Stem cells are cells in the bone marrow that give the body a constant source of blood cells. Stem cell transplants are used to re-supply the bone marrow when it has been destroyed by disease, chemotherapy, or radiation. Depending on the source of the stem cells, this procedure may be called a bone marrow transplant, a peripheral blood stem cell transplant, or a cord blood transplant (American Cancer Society, 2007).

Hematopoietic stem cell transplantation (HSCT) is a rapidly evolving technique that offers a potential cure for hematologic cancers (leukemias, lymphomas, myeloma) and other hematologic disorders (e.g., primary immunodeficiency, aplastic anemia, myelodysplasia). HSCT may be autologous or allogeneic; bone marrow, peripheral blood, or umbilical cord stem cells may be used. Peripheral blood has largely replaced bone marrow as a source of stem cells, especially in autologous HSCT because stem cell harvest is easier, and neutrophil and platelet counts recover faster. Umbilical cord HSCT has been mainly restricted to children because the number of stem cells is low (Merck Manual, 2006).

Pediatric solid tumors are a heterogeneous group of neoplasms that include rhabdomyosarcomas, the Ewing’s sarcoma family of tumors, Wilms’ tumor, retinoblastoma, hepatoblastoma, and germ cell tumors. All have a variety of histopathologic types and different staging or clinical grouping systems (Hayes, 2006).

To initiate the prior authorization process, it is necessary to complete and submit the Stem Cell Transplant Request for Coverage Form.

COVERAGE GUIDELINES

Autologous HSCT

Tufts Health Plan may authorize coverage of high-dose chemotherapy followed by autologous HSCT for the treatment of the following:

1. Relapsed Wilms’ tumor
2. Metastatic retinoblastoma
3. Relapsed Ewing’s sarcoma, not responsive to other therapies.
4. Relapsed Peripheral Neuroectodermal Tumor (PNET): primary metastatic or bulky disease, not responsive to other therapies.
5. Relapsed Rhabdomyosarcoma, not responsive to other therapies.
6. Relapsed Desmoplastic small round cell tumor, not responsive to other therapies.
7. Hepatoblastoma: Primary metastatic or recurrent.
**Allogeneic HSCT**
Tufts Health Plan does not cover myeloablative allogeneic HSCT for the treatment of any other pediatric solid tumor.

**Non-myeloablative Allogeneic HSCT**
Tufts Health Plan does not cover non-myeloablative allogeneic HSCT for the treatment of any other Pediatric solid tumor.

**LIMITATIONS**
None

**CODES**
The following HCPCS/CPT codes require prior authorization:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>38204</td>
<td>Management of recipient hematopoietic progenitor cell donor search and cell acquisition</td>
</tr>
<tr>
<td>38205</td>
<td>Blood-derived hematopoietic progenitor cell harvesting for transplantation, per collection; allogeneic</td>
</tr>
<tr>
<td>38206</td>
<td>Blood-derived hematopoietic progenitor cell harvesting for transplantation, per collection; autologous</td>
</tr>
<tr>
<td>38207</td>
<td>Transplant preparation of hematopoietic progenitor cells; cryopreservation and storage</td>
</tr>
<tr>
<td>38230</td>
<td>Bone marrow harvesting for transplantation</td>
</tr>
<tr>
<td>38240</td>
<td>Bone marrow or blood-derived peripheral stem transplantation; allogeneic</td>
</tr>
<tr>
<td>38241</td>
<td>Bone marrow or blood-derived peripheral stem cell transplantation; autologous</td>
</tr>
<tr>
<td>38242</td>
<td>Bone marrow or blood-derived peripheral stem cell transplantation; allogeneic donor lymphocyte infusions</td>
</tr>
<tr>
<td>38243</td>
<td>Hematopoietic progenitor cell (HPC); HPC boost</td>
</tr>
<tr>
<td>S2140</td>
<td>Cord blood harvesting for transplantation, allogeneic</td>
</tr>
<tr>
<td>S2142</td>
<td>Cord blood-derived stem-cell transplantation, allogeneic</td>
</tr>
<tr>
<td>S2150</td>
<td>Bone marrow or blood-derived stem cells (peripheral or umbilical), allogeneic or autologous, harvesting, transplantation, and related complications; including: pheresis and cell preparation/storage; marrow ablative therapy; drugs, supplies, hospitalization with outpatient follow-up; medical/surgical, diagnostic, emergency, and rehabilitative services; and the number of days of pre-and post-transplant care in the global definition</td>
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**REFERENCES**
APPROVAL HISTORY
November 2006: Reviewed by the Clinical Coverage Criteria Committee.

Subsequent endorsement date(s) and changes made:
- March 16, 2007: New Format
- April 25, 2008: Reviewed and renewed without changes
- April 6, 2009: Additional diagnoses covered for pediatric solid tumors: Neuroblastoma, Ewing’s sarcoma, primitive neuroectodermal tumor, rhabdomyosarcoma, desmoplastic small round cell tumors, and hepatoblastoma. Additional references also added.
- November 1, 2009: Reviewed by Medical Affairs Medical Policy Committee, no changes.
- December 2010: Reviewed at MSPAC. Limited efficacy for patients with: Ewing’s Sarcoma/PNET, desmoplastic small round cell tumor rhabdomyosarcoma and now only covered as treatment of relapsed disease not responsive to other therapies.
- December 14, 2011: Reviewed by Integrated Medical Policy Advisory Committee (IMPAC), no changes
- December 12, 2012: Reviewed by IMPAC, coding updated
- December 11, 2013: Reviewed by IMPAC, renewed without changes
- December 10, 2014: Reviewed by IMPAC, renewed without changes
- September 2015: Branding and template change to distinguish Tufts Health Plan products in "Applies to" section. Added Tufts Health Freedom Plan products, effective January 1, 2016.
- October 14, 2015: Reviewed by IMPAC, renewed without changes
- July 20, 2016: Reviewed by IMPAC, renewed without changes
- November 9, 2016: Reviewed by IMPAC, renewed without changes
- November 23, 2016: Contact information updated
- April 2017: Added RITogether Plan product to template. For MNGs applicable to RITogether, effective date is August 1, 2017
- September 18, 2017: Administrative update
- December 13, 2017: Reviewed by IMPAC, renewed without changes

BACKGROUND, PRODUCT AND DISCLAIMER INFORMATION
Medical Necessity Guidelines are developed to determine coverage for benefits, and are published to provide a better understanding of the basis upon which coverage decisions are made. We make coverage decisions using these guidelines, along with the Member’s benefit document, and in coordination with the Member’s physician(s) on a case-by-case basis considering the individual Member's health care needs.

Medical Necessity Guidelines are developed for selected therapeutic or diagnostic services found to be safe and proven effective in a limited, defined population of patients or clinical circumstances. They include concise clinical coverage criteria based on current literature review, consultation with practicing physicians in our service area who are medical experts in the particular field, FDA and other government agency policies, and standards adopted by national accreditation organizations. We revise and update Medical Necessity Guidelines annually, or more frequently if new evidence becomes available that suggests needed revisions.

Medical Necessity Guidelines apply to the fully insured Commercial and Medicaid products when Tufts Health Plan conducts utilization review unless otherwise noted in this guideline or in the Member’s benefit document, and may apply to Tufts Health Unify to the same extent as Tufts Health Together. This guideline does not apply to Tufts Medicare Preferred HMO, Tufts Health Plan Senior Care Options or to certain delegated service arrangements. For self-insured plans, coverage may vary depending on the terms of the benefit document. If a discrepancy exists between a Medical Necessity Guideline and a self-insured Member’s benefit document, the provisions of the benefit document will govern. Applicable state or federal mandates or other requirements will take precedence. For CareLink Members, Cigna conducts utilization review so Cigna’s medical necessity guidelines, rather than these guidelines, will apply.

Treating providers are solely responsible for the medical advice and treatment of Members. The use of these guidelines is not a guarantee of payment or a final prediction of how specific claim(s) will be adjudicated. Claims payment is subject to eligibility and benefits on the date of service, coordination
of benefits, referral/authorization, utilization management guidelines when applicable, and adherence to plan policies, plan procedures, and claims editing logic