I. Policy: Low-Level Laser Therapy (LLLT) aka: Cold Laser Therapy, low-power laser therapy (LPLT), low intensity laser light therapy and low-energy laser therapy

II. Purpose/Objective:
To provide a policy of coverage regarding Low-Level Laser Therapy (LLLT) aka: Cold Laser Therapy, low-power laser therapy (LPLT), low intensity laser light therapy and low-energy laser therapy

III. Responsibility:
A. Medical Directors
B. Medical Management

IV. Required Definitions
1. Attachment – a supporting document that is developed and maintained by the policy writer or department requiring/authoring the policy.
2. Exhibit – a supporting document developed and maintained in a department other than the department requiring/authoring the policy.
3. Devised – the date the policy was implemented.
4. Revised – the date of every revision to the policy, including typographical and grammatical changes.
5. Reviewed – the date documenting the annual review if the policy has no revisions necessary.

V. Additional Definitions
Medical Necessity or Medically Necessary means Covered Services rendered by a Health Care Provider that the Plan determines are:

a. appropriate for the symptoms and diagnosis or treatment of the Member's condition, illness, disease or injury;
b. provided for the diagnosis, and the direct care and treatment of the Member's condition, illness disease or injury;
c. in accordance with current standards of good medical treatment practiced by the general medical community.
d. not primarily for the convenience of the Member, or the Member's Health Care Provider; and
e. the most appropriate source or level of service that can safely be provided to the Member. When applied to hospitalization, this further means that the Member requires acute care as an inpatient due to the nature of the services rendered or the Member's condition, and the Member cannot receive safe or adequate care as an outpatient.

Medicaid Business Segment
Medically Necessary — A service, item, procedure, or level of care that is necessary for the proper treatment or management of an illness, injury, or disability is one that:

- Will, or is reasonably expected to, prevent the onset of an illness, condition, injury or disability.
- Will, or is reasonably expected to, reduce or ameliorate the physical, mental or developmental effects of an
illness, condition, injury or disability.

- Will assist the Member to achieve or maintain maximum functional capacity in performing daily activities, taking into account both the functional capacity of the Member and those functional capacities that are appropriate for Members of the same age.

**DESCRIPTION:** Low Level Laser Therapy (LLLT), also referred to as Cold Laser therapy, low-power laser therapy (LPLT), low intensity laser light therapy, photomodulation, photobiomodulation and low-energy laser therapy, is a light source treatment that generates light of a single wavelength. Instead of producing a thermal effect, it is theorized that LLLT may act by producing photochemical reactions in the cells, referred to as biostimulation or photobiology and has been proposed as an effective treatment option to provide analgesia and promote healing in several clinical conditions including wound healing, arthritis, carpal tunnel syndrome, musculoskeletal and neurological dysfunctions. Cold lasers are defined as low intensity lasers that restrict treatment energies to a few J/cm² and laser powers to 50 mW or less, and induce minimal temperature elevation (0.1 – 0.5º C).

**INDICATIONS:**
Low-level laser therapy may be considered medically necessary for prevention of oral mucositis in members undergoing cancer treatment associated with increased risk of oral mucositis, including chemotherapy and/or radiotherapy, and/or hematopoietic stem cell transplantation.

**EXCLUSIONS:**
The Plan does **NOT** provide coverage for Low Level Laser Therapy as a treatment to promote wound healing or for pain relief in any clinical condition because it is considered experimental, investigational or unproven. There is insufficient evidence in the peer-reviewed published medical literature to establish the effectiveness of this treatment on health outcomes when compared to established treatments or technologies.

The Plan does **NOT** provide coverage for low intensity light therapy (eg. Dynatron X3 light therapy unit) for any indication because it is considered experimental, investigational or unproven. There is insufficient evidence in the peer-reviewed published medical literature to establish the effectiveness of this treatment on health outcomes when compared to established treatments or technologies.

- **For more information, please see MP 142 – Anodyne Infrared Therapy**

The Plan does **NOT** provide coverage for super pulsed laser (eg. TerraQuant LLLT unit) for any indication because it is considered experimental, investigational or unproven. There is insufficient evidence in the peer-reviewed published medical literature to establish the effectiveness of this treatment on health outcomes when compared to established treatments or technologies.

The Plan does **NOT** provide coverage for Low Level Laser Therapy as a treatment for addiction because it is considered experimental, investigational or unproven. There is insufficient evidence in the peer-reviewed published medical literature to establish the effectiveness of this treatment on health outcomes when compared to established treatments or technologies.

**Note:** A complete description of the process by which a given technology or service is evaluated and determined to be experimental, investigational or unproven is outlined in MP 15 - Experimental Investigational or Unproven Services or Treatment.

**Medicaid Business Segment:**
Any requests for services, that do not meet criteria set in the PARP, may be evaluated on a case by case basis.

**CODING ASSOCIATED WITH:** Low-Level Laser Therapy (LLLT) aka: Cold Laser Therapy, low-power laser therapy (LPLT), low intensity laser light therapy and low-energy laser therapy

The following codes are included below for informational purposes and may not be all inclusive. Inclusion of a procedure or device code(s) does not constitute or imply coverage nor does it imply or guarantee provider reimbursement. Coverage is determined by the member specific benefit plan document and any applicable laws regarding coverage of specific services. Please note that per Medicare coverage rules, only specific CPT/HCPCS Codes may be covered for the Medicare Business Segment. Please consult the CMS website at [www.cms.gov](http://www.cms.gov) or the local Medicare Administrative Carrier (MAC) for more information on Medicare coverage and coding requirements.

97799 Unlisted physical medicine/rehabilitation service or procedure
S8948 Application of modality (requiring constant provider attendance) to one or more areas, low-level laser, each 15 minutes

0552T Low-level laser therapy, dynamic photonic and dynamic thermokinetic energies, provided by a physician or other qualified health care professional


LINE OF BUSINESS:
Eligibility and contract specific benefits, limitations and/or exclusions will apply. Coverage statements found in the line of business specific benefit document will supersede this policy. For Medicare, applicable LCD’s and NCD’s will supersede this policy. For PA Medicaid Business segment, this policy applies as written.

REFERENCES:


Winifred S. Hayes, Hayes Inc Online. Low Level Light Therapy for Peripheral Neuropathy HAYES, Inc. April 13, 2008


Centers for Medicare & Medicaid Services. Decision Memo for Infrared Therapy Devices (CAG-00291N)


This policy will be revised as necessary and reviewed no less than annually.

Devised: 2/05

Revised: 06/06 (description); 06/07(additional description); 07/08 (exclusion) 6/10 (exclusion); 5/21(add Indication)


Geisinger Health Plan may refer collectively to health care coverage sponsors Geisinger Health Plan, Geisinger Quality Options, Inc., and Geisinger Indemnity Insurance Company, unless otherwise noted. Geisinger Health Plan is part of Geisinger, an integrated health care delivery and coverage organization.

Coverage for experimental or investigational treatments, services and procedures is specifically excluded under the member's certificate with Geisinger Health Plan. Unproven services outside of an approved clinical trial are also specifically excluded under the member's certificate with Geisinger Health Plan. This policy does not expand coverage to services or items specifically excluded from coverage in the member's certificate with Geisinger Health Plan. Additional information can be found in MP015 Experimental, Investigational or Unproven Services.

Prior authorization and/or pre-certification requirements for services or items may apply. Pre-certification lists may be found in the member's contract specific benefit document. Prior authorization requirements can be found at https://www.geisinger.org/health-plan/providers/ghp-clinical-policies

Please be advised that the use of the logos, service marks or names of Geisinger Health Plan, Geisinger Quality Options, Inc. and Geisinger Indemnity Insurance Company on a marketing, press releases or any communication piece regarding the contents of this medical policy is strictly prohibited without the prior written consent of Geisinger Health Plan. Additionally, the above medical policy does not confer any endorsement by Geisinger Health Plan, Geisinger Quality Options, Inc. and Geisinger Indemnity Insurance Company regarding the medical service, medical device or medical lab test described under this medical policy.