



Geisinger Health Plan Policies and Procedure Manual

Policy: MP221

Section: Medical Benefit Policy

Subject: Suprachoroidal Delivery of Pharmacologic Agents

Applicable Lines of Business

Commercial	X	CHIP	X
Medicare	X	ACA	X
Medicaid	X		

I. Policy: Suprachoroidal Delivery of Pharmacologic Agents

II. Purpose/Objective:

To provide a policy of coverage regarding Suprachoroidal Delivery of Pharmacologic Agents

III. Responsibility:

- A. Medical Directors
- B. Medical Management Department

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 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:

Suprachoroidal delivery of pharmacologic agents is currently being investigated as a means to deliver higher levels of drug to the targeted tissue. The technique involves the use of a microcannula system that serves as a drug delivery channel with a fiberoptic light source for localization of the cannula tip.

EXCLUSIONS:

The Plan does **NOT** provide coverage for the use of suprachoroidal delivery of pharmacologic agents because it is considered **unproven**. There currently is insufficient evidence in the peer-reviewed published medical literature to establish the effectiveness of this technology on health outcomes when compared to established methods 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: Suprachoroidal Delivery of Pharmacologic Agents

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 or the local Medicare Administrative Carrier (MAC) for more information on Medicare coverage and coding requirements

CPT/HCPCS Codes:

67299 - Unlisted procedure, posterior segment
0465T Suprachoroidal injection of a pharmacologic agent

Current Procedural Terminology (CPT®) © American Medical Association: Chicago, IL

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 supercede this policy. For PA Medicaid Business segment, this policy applies as written.

REFERENCES:

Olsen T. Drug delivery to the suprachoroidal space shows promise. Retina Today;March/April 2007.
http://www.retinatoday.com/Html%20Pages/0307/0307_feature_olsen.pdf

Olsen TW, Feng X, WabnerK, et al. Cannulation of the suprachoroidal space:a novel drug delivery methodology to the posterior segment. Am J Ophthalmol 2006;142:777-787.

Del Amo EM, Urtili A. Current and future ophthalmic drug delivery systems. A shift to the posterior segment. Drug Discov Today 2008; 13(3-4):135-43.

Rizzo, S, Ebert, FG, Bartolo, ED, et al. Suprachoroidal Drug Infusion for the Treatment of Severe Subfoveal Hard Exudates. Retina. 2011 Jul 30

Rai Udo J, Young SA, Thrimawithana TR, et al. The suprachoroidal pathway: A new drug delivery route to the back of the eye. Drug Discov Today. 2015;20(4):491-495.

Kim YC, Oh KH, Edelhauser HF, Prausnitz MR. Formulation to target delivery to the ciliary body and choroid via the suprachoroidal space of the eye using microneedles. Eur J Pharm Biopharm. 2015;95(Pt B):398-406

Hartman RR, Kompella UB. Intravitreal, subretinal, and suprachoroidal injections: Evolution of microneedles for drug delivery. *J Ocul Pharmacol Ther.* 2018;34(1-2):141-153.

Willoughby AS, Vuong VS, Cunefare D, et al. Choroidal changes after suprachoroidal injection of triamcinolone acetonide in eyes with macular edema secondary to retinal vein occlusion. *Am J Ophthalmol.* 2018;186:144-151.

Habot-Wilner Z, Noronha G, Wykoff CC, et al. Suprachoroidally injected pharmacological agents for the treatment of chorio-retinal diseases: A targeted approach. *Acta Ophthalmol.* 2019;97(5):460-472

Yeh S, Khurana RN, Shah M, et al. Efficacy and safety of suprachoroidal CLS-TA for macular edema secondary to noninfectious uveitis: phase 3 randomized trial. *Ophthalmology.* 2020: 127(7):948-955.

Tayyab H, Ahmed CN, Sadiq MAA. Efficacy and safety of suprachoroidal triamcinolone acetonide in cases of resistant diabetic macular edema. *Pak J Med Sci.* 2020; 36(2):42-47.

Ben Hain, LN, Moissiev E. Drug Delivery via the Suprachoroidal Space for the Treatment of Retinal Diseases. *Pharmaceutics* 2021, 13(7), 967.

Hancock SE, Wan CR, et al. Biomechanics of suprachoroidal drug delivery: From benchtop to clinical investigation in ocular therapies. *Expert Opinion on Drug Delivery* 2021;18(6):777-788

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

Devised: 10/03/08

Revised:

Reviewed: 10/09, 8/10, 8/11, 8/12, 8/13, 8/14; 8/15; 7/16; 7/17, 6/18, 7/19, 7/20, 7/21, 7/22, 7/23, 7/24

CMS UM Oversight Committee Approval: 12/23, 7/24

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.