Chemical Peels

Description

A chemical peel is a controlled removal of various layers of the skin with the use of a chemical agent. The most common use of chemical peeling is the treatment of photoaged skin. Chemical peeling has also been used for other conditions, including actinic keratoses, active acne, and acne scarring.

OBJECTIVE

The objective of this evidence review is to evaluate the safety and efficacy of chemical peels for the treatment of actinic keratoses and moderate-to-severe acne.

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POLICY STATEMENT

Dermal chemical peels used to treat patients with numerous (>10) actinic keratoses or other premalignant skin lesions, such that treatment of the individual lesions becomes impractical, may be considered medically necessary.

Epidermal chemical peels used to treat patients with active acne that has failed a trial of topical and/or oral antibiotic acne therapy are considered medically necessary. In this setting, superficial chemical peels with 40% to 70% alpha hydroxy acids are used as a comedolytic therapy. (Alpha-hydroxy acids can also be used in lower concentrations [8%] without the supervision of a physician.)

Epidermal chemical peels used to treat photoaged skin, wrinkles, or acne scarring or dermal peels used to treat end-state acne scarring are considered cosmetic and not medically necessary.

POLICY GUIDELINES

Requests for all chemical peels should be carefully evaluated to determine whether the rationale is primarily cosmetic. Epidermal peels would be considered medically necessary in patients with active acne who have failed other therapy because active severe acne may lead to acne scarring and may be psychologically painful leading to low self-esteem, depression, and anxiety. Dermal peels would be considered medically necessary in patients with multiple actinic keratoses because these premalignant lesions may warrant destruction or removal as an alternative to watchful waiting. Other applications of chemical peels, including treatment of photoaged skin, wrinkles, and acne scarring, are considered cosmetic.

BENEFIT APPLICATION

Experimental or investigational procedures, treatments, drugs, or devices are not covered (See General Exclusion Section of brochure).

Making the distinction between active and inactive acne can be difficult. However, simultaneous treatment with either antibiotics or tretinoin is an indication that the patient has an active ongoing disease.

FDA REGULATORY STATUS

U.S. Food and Drug Administration (FDA) clearance or approval of chemical agents used in peeling may not be relevant because these agents are prepared in-office, may have predated FDA approval, and/or may be considered cosmetic ingredients.

RATIONALE

Summary of Evidence

For individuals who have actinic keratoses who receive dermal chemical peels, the evidence consists of a systematic review involving 8 studies - 4 randomized controlled trials (RCTs), 2 non-randomized controlled trials, and 2 single-arm studies. Relevant outcomes are symptoms, morbid events, quality of life, and treatment-related morbidity. Data analysis and interpretation of results were challenged by the high risk of bias of the primary studies, their imprecision, the variability of their peeling application protocols, and their focus on short-term clearance rates. Additional controlled studies, preferably randomized, are needed. The evidence is insufficient to determine that the technology results in an improvement in the net health outcomes.

For individuals who have moderate-to-severe active acne who receive epidermal chemical peels, the evidence includes an RCT. Relevant outcomes are symptoms, morbid events, quality of life, and treatment-related morbidity. Results from the single, small, randomized, placebo-controlled, split-faced trial found greater efficacy with active treatment than with placebo. However, no studies were identified comparing chemical peel agents with conventional acne treatment. The evidence is insufficient to determine that the technology results in an improvement in the net health outcomes.

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SUPPLEMENTAL INFORMATION

Practice Guidelines and Position Statements

American Academy of Dermatology

In 2016, the American Academy of Dermatology published guidelines on the management of acne vulgaris, which give a B recommendation based on level II and III evidence for the use of chemical peels for acne, with the following statement on chemical peels:

"Studies exist suggesting that chemical peels may improve acne. However, large, multicenter, double-blinded control trials comparing peels to placebo and comparing different peels are lacking. Glycolic acid and salicylic acid chemical peels may be helpful for noninflammatory (comedonal) lesions. However, multiple treatments are needed and the results are not long-lasting. In the opinion of the work group, chemical peels may result in mild improvement in comedonal acne."

American Society for Dermatologic Surgery

In 2017, the American Society for Dermatologic Surgery published recommendations on the use of several skin treatments following a course of isotretinoin, a treatment for severe cystic acne. Previously, a number of cosmetic skin treatments, including chemical peels, were discouraged for 6 months after the use of isotretinoin. These 2017 guidelines evaluated various treatments in the context of scarring and found that superficial chemical peels were safe as a treatment either concurrent with isotretinoin or within 6 months of its discontinuation. The lack of data on medium or deep chemical peels did not permit the Society to make a recommendation on those treatments.

U.S. Preventive Services Task Force Recommendations

Not applicable.

Medicare National Coverage

There is no national coverage determination. In the absence of a national coverage determination, coverage decisions are left to the discretion of local Medicare carriers.

REFERENCES


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POLICY HISTORY - THIS POLICY WAS APPROVED BY THE FEP® PHARMACY AND MEDICAL POLICY COMMITTEE ACCORDING TO THE HISTORY BELOW:

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<td>December 2011</td>
<td>New policy</td>
<td>No change in policy statement. Policy updated with literature review, and related references.</td>
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<tr>
<td>December 2012</td>
<td>Replace policy</td>
<td>Policy updated with literature review, no change in policy statements; Reference 9 added, other references renumbered, reordered or removed.</td>
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<td>September 2013</td>
<td>Replace policy</td>
<td>Policy updated with literature review. In medically necessary statement on acne, the concentration was changed to 40% - 70% alpha hydroxy acids. References 6, 11 and 12 were added.</td>
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<td>September 2014</td>
<td>Replace policy</td>
<td>Policy updated with literature review through May 28, 2015; no references added. No change in policy statements.</td>
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<tr>
<td>September 2015</td>
<td>Replace policy</td>
<td>Policy updated with literature review; references 3-6 and 14-16 added. Policy statements unchanged.</td>
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<td>Policy updated with literature review through October 1, 2018; no references added. Policy statements unchanged.</td>
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<td>Policy updated with literature review through October 23, 2020; references added. Policy statements unchanged.</td>
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