

Clinical Practice Guideline Summary: Bell's Palsy

Reginald Baugh, MD; Gregory Basura, MD, PhD; Lisa Ishii, MD, MHS; Seth R. Schwartz, MD, MPH; Caitlin Murray Drumheller; Rebecca Burkholder, JD; Nathan A. Deckard, MD; Cindy Dawson, MSN, RN, CORLN; Colin Driscoll, MD; M. Boyd Gillespie, MD, MSc; Richard K. Gurgel, MD; John Halperin, MD, FAAN; Ayesha N. Khalid, MD; Kaparaboyana Ashok Kumar, MD, FRCS, FFAFP; Alan Micco, MD; Debra Munsell, DHSC, PA-C, DFAAPA; Steven Rosenbaum, MD, FAAEM; William Vaughan

This month, the American Academy of Otolaryngology—Head and Neck Surgery Foundation (AAO-HNSF) published its latest clinical practice guideline, Bell's Palsy, as a supplement to *Otolaryngology—Head and Neck Surgery*. Recommendations developed encourage accurate and efficient diagnosis and treatment and, when applicable, facilitating patient follow-up to address the management of long-term sequelae, or evaluation of new or worsening symptoms not indicative of Bell's palsy. The guideline

was developed using the *a priori* protocol outlined in the *AAO-HNS Clinical Practice Guideline Development Manual*.¹ The complete guideline is available at <http://oto.sagepub.com>.

To assist in implementing the guideline recommendations, this article summarizes the rationale, purpose, and key action statements. Recommendations in a guideline can be implemented only if they are clear and identifiable. This goal is best achieved by structuring the guideline around a series of key action statements, which are supported by amplifying text and action statement profiles. For ease of reference only the statements and profiles are included in this brief summary. Please refer to the complete guideline for the important information in the amplifying text that further explains the supporting evidence and details of implementation for each key action statement.

For more information about the AAO-HNSF's other quality knowledge products (clinical practice guidelines and clinical consensus statements), our guideline development methodology, or to submit a topic for future guideline development, please visit <http://www.entnet.org/guidelines>.

Introduction

Bell's palsy, named after the Scottish anatomist, Sir Charles Bell, is the most common acute mononeuropathy, or disorder affecting a single nerve, and is the most common diagnosis associated with facial nerve weakness/paralysis.¹ Bell's palsy is a rapid unilateral facial nerve paresis (weakness) or paralysis (complete loss of movement) of unknown cause. The condition leads to the partial or complete inability to voluntarily move facial muscles on the affected side of the face. Although typically self-limited, the facial paresis/paralysis that occurs in Bell's palsy may cause significant temporary oral incompetence and an inability to close the eyelid, leading to potential eye injury. Additional long-term poor outcomes do occur and can be devastating to the patient. Treatments are generally designed to improve facial function and facilitate recovery.

The myriad treatment options for Bell's palsy include medical therapy (steroids and antivirals, alone and in combination),^{2,4} surgical decompression,⁵⁻⁸ and complementary and alternative therapies such as acupuncture. Some controversy exists regarding

quality of life. With diminished facial movement and marked facial asymmetry, patients with facial paralysis can have impaired interpersonal relationships and may experience profound social distress, depression, and social alienation.²⁶ There are a number of rehabilitative procedures to normalize facial appearance, including eyelid weights or springs, muscle transfers and nerve substitutions, static and dynamic facial slings, and botulinum toxin injections to eliminate facial spasm/synkinesis.²⁷⁻³¹ This guideline will, however, focus more on the acute management of Bell's palsy and will not address these interventions in detail.

Purpose

The primary purpose of this guideline is to improve the accuracy of diagnosis for Bell's palsy, to improve the quality of care and outcomes for Bell's palsy patients, and to decrease harmful variations in the evaluation and management of Bell's palsy. This guideline addresses these needs by encouraging accurate and efficient diagnosis and treatment and, when applicable, facilitating patient follow-up to address the management of long-term sequelae, or evaluation of new or worsening symptoms not indicative of Bell's palsy. The guideline is intended for all clinicians in any setting who are likely to diagnose and manage patients with Bell's palsy. The target population is inclusive of both adults and children presenting with Bell's palsy.

This guideline is intended to focus on a limited number of quality improvement opportunities deemed most important by the GDG, and is not intended to be a comprehensive guide for diagnosing and managing Bell's palsy. The recommendations outlined in this guideline are not intended to represent the standard of care for patient management, nor are the recommendations intended

to limit treatment or care provided to individual patients. The guideline is not intended to replace clinical judgment for individualized patient care. Our goal is to create a multidisciplinary guideline with a specific set of focused recommendations based upon an established and transparent process that considers levels of evidence, harm-benefit balance, and expert consensus to resolve gaps in evidence. These specific recommendations are designed to improve quality of care and may be used to develop performance measures.

Key Action Statements

STATEMENT 1. PATIENT HISTORY AND PHYSICAL EXAMINATION:

Clinicians should assess the patient using history and physical examination to exclude identifiable causes of facial paresis or paralysis in patients presenting with acute onset unilateral facial paresis or paralysis. *Strong recommendation based on observational studies of alternative causes of facial paralysis and reasoning from first principles, with a preponderance of benefit over harm.*

Action Statement Profile

- Aggregate Evidence Quality: Grade C
- Level of confidence in evidence: High
- Benefit: Identification of other causes of facial paresis/paralysis, enabling

accurate diagnosis; avoidance of unnecessary testing and treatment; identification of patients for whom other testing or treatment is indicated; opportunity for appropriate patient counseling

- Risks, harms, costs: None
- Benefit-Harm Assessment: Preponderance of benefit
- Value judgments: The GDG felt that assessment of patients cannot be performed without a history and physical examination, and that it would not be possible to find stronger evidence, as studies excluding these steps cannot ethically be performed. Other causes of facial paresis/paralysis may go unidentified; a thorough history and physical examination will help avoid missed diagnoses or diagnostic delay.
- Intentional vagueness: None
- Role of patient preferences: None
- Exceptions: None
- Policy level: Strong recommendation
- Differences of opinion: None

STATEMENT 2. LABORATORY TESTING:

Clinicians should not obtain routine laboratory testing in patients with new onset Bell's palsy. *Recommendation (against) based on observational studies and expert opinion with a preponderance of benefit over harm.*

Table 2. Abbreviations and Definitions of Common Terms

Term	Definition
Acute	Occurring in less than 72 hours
Bell's palsy	Acute unilateral facial nerve paresis or paralysis with onset in less than 72 hours and without identifiable cause
Electromyography (EMG) testing	A test in which a needle electrode is inserted into affected muscles to record both spontaneous depolarizations and the responses to voluntary muscle contraction
Electroneuronography (ENoG) testing (neurophysiologic studies)	A test used to examine the integrity of the facial nerve, in which surface electrodes record the electrical depolarization of facial muscles following electrical stimulation of the facial nerve
Facial paralysis	Complete inability to move the face
Facial paresis	Incomplete ability to move the face
Idiopathic	Without identifiable cause

