



DYSPHAGIA: AGIA:

Evaluation and Treatment

THE IOPI® SYSTEM Iowa Oral Performance Instrument

Swallowing therapy with measurable results

YOU CAN...

- Objectively measure and document lip and tongue strength
- Compare patient data with norms
- Set exercise parameters using the principles of exercise science
- Measure and document patient improvement and evaluate program effectiveness

Improve outcomes

Motivate patients

Justify therapy



What can the IOPI® measure?

- Tongue strength and endurance
- Lip strength and endurance

What diseases or conditions can the IOPI® be useful in diagnosing and treating?

- Dysphagia
- Stroke
- Traumatic brain injury (TBI)
- Parkinson's
- Head and neck cancer
- Elderly

Who are our customers?

- SLPs
- Rehabilitation departments
- Hospitals (including VA)
- Head and neck surgery departments
- Occupational therapists
- Otolaryngologists

Has the IOPI® been validated?

The IOPI® has been manufactured since 1992 and has been validated in many scientific studies published in professional journals such as:

- *Dysphagia*
- *Journal of Speech Language Hearing Research*
- *Archives of Physical Medicine and Rehabilitation*
- *American Journal of Speech-Language Pathology*
- *Journal of Medical Speech-Language Pathology*
- *Journal of the American Geriatric Society*

The IOPI® System is composed of a base unit to which bulbs are attached by a connecting tube. Includes convenient carrying case.

Visit us online at www.IOPImedical.com

HOW IT WORKS...

The IOPI® measures tongue strength by capturing the maximum compressive force applied to a disposable tongue bulb. The patient presses the tongue bulb against the palate as hard as they can and the IOPI® provides the peak pressure reading on an easy-to-read digital display. This pressure can be compared to existing norms.

Lip strength can be measured in a similar way by placing the tongue bulb under the lip muscles at the corner of the mouth.

The IOPI® has a vertical array of LED lights that provides biofeedback based on the applied pressure. The therapist uses the "Set Max" feature to set the pressure needed to illuminate the top light. By varying the requested pressure and hold duration during a therapy session, the principles of exercise science can be applied to strengthening the tongue, just like any other muscle. This visual feedback is also a strong patient motivator.

Endurance is measured with the IOPI® by quantifying the length of time that a patient can maintain 50% of his or her Peak pressure. This procedure is conducted by setting the maximum pressure in the Lights Mode to 50% of the patient's Peak pressure and timing how long the patient can hold the top (green) light on.



Biofeedback:
Engage your
patients in
exercise therapy



Includes
convenient
carrying case

THE IOPI®
SYSTEM
Swallowing
therapy with
measurable results



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THE IOPI® SYSTEM

Objectively measures
tongue and lip strength



TESTIMONIAL

"I consider the IOPI® a very valuable and effective tool in my work with patients experiencing dysphagia. The IOPI® is easy for patients to use in the home, clinic or at the bedside and offers the patient concrete feedback regarding their effort. This has a profound impact on patient motivation and willingness to participate in treatment. The IOPI® allows the clinician to also incorporate principles of exercise science that will improve effectiveness of the treatment. The clinician can measure baseline effort, calculate discrete goals for strength training and then continually adjust that training goal to progressively challenge patient effort. By using the objective measures available with the IOPI®, patients can see their progress over time and the clinician can document these objective changes. This, rather than the traditional method of just doing the same repetitive tasks while subjectively asking the patient to "try harder" over time, keeps the patient engaged and also leads to greater outcomes.

*In my opinion, all dysphagia
clinicians should have an IOPI®
in their treatment arsenal."*

Lori Burkhead, Ph.D., CCC-SLP
MEDICAL COLLEGE OF GEORGIA

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