ORA Cheat Sheet

What does Ocular Response Analyzer (ORA) do?

ORA is the only instrument in the world capable of measuring biomechanical properties of the cornea. It is most well known for measuring Corneal Hysteresis (CH), which is an indicator of the visco-elastic properties of the cornea (think of it as corneal "*strength*").

It is also a precision tonometer.

Its measurements are fast (seconds), easy for the operator and patient, and non-contact.

What are the clinical benefits?

Low CH is *independently predictive* of progressive visual field loss. There is evidence showing that CH is a strong predictor of the magnitude of IOP reduction that can be expected when IOP lowering therapy is started. These facts make CH very relevant in diagnosis and management of glaucoma, including the critical area of setting treatment expectations.

The ORA's ability to quantify the mechanical "bending characteristics" of the cornea enables the device to provide a corneal compensated IOP measurement (IOPcc), that is less effected by corneal properties than Goldmann tonometry. IOPcc is not correlated with corneal parameters such as Central Corneal Thickness and remains fairly stable after ablative refractive surgery procedures. IOPcc has been shown to be a better indicator of current status of visual field damage and is better correlated with optic nerve characteristics such as cup-to-disc ratio, APONs, notching, peripapillary atrophy, and disc hemorrhages.

Corneal biomechanical properties are also very relevant to corneal specialists; especially those involved in refractive surgery and / or Keratoconus. ORA measurements have been shown to be useful in the detection of Keratoconus as an adjunct to topography.

Is it new?

ORA received FDA 510K in 2004. It has been commercially available worldwide since 2005. There are over 450 peer-reviewed publications on this technology in the medical literature.

Is it reimbursable?

ORA is reimbursable using CPT code 92145.

Who is a prospective customer?

- MDs and ODs who specialize in glaucoma diagnosis and treatment.
- ODs who refer patients to refractive surgeons or glaucoma specialists
- MDs or ODs who place a high level of importance on accurate IOP measurements
- Researchers (OD schools, universities, etc) who are interested in Glaucoma or Cornea
- MDs who specialize in refractive surgery