

Q3D: Quantitative Three Dot test. Detecting visual suppression, helping kids see.

A super-sensitive, handheld device to detect visual suppression (e.g., amblyopia or "lazy eye") in kids early enough to successfully treat.

The Q3D (Quantitative Three Dot) is a clinically tested, novel, patented device that quantitatively measures the depth of visual suppression in patients' eyes. This capability does not currently exist on the market and is critical to save the sight in children with conditions such as amblyopia ("lazy eye").

Current "technology" available on the market can detect visual suppression *only* qualitatively and *only* when significant suppression is already present, which is most often when it's too late to prevent or reverse the condition. The Q3D changes that.

This device addresses the need for a significantly more sensitive instrument. The Q3D is able to detect extremely small changes in suppression and flag possible cases of amblyopia very early. In addition, its ability to quantitatively measure the depth of suppression allows healthcare providers to monitor the efficacy of therapies.

It's a fast, easy test to both give and take; kids as young as 3-4 years were able to take the test in the clinical trial. School nurses could easily be trained to screen kids for visual suppression, and the device could become a quick part of standard screenings at vision care providers.

IP Protection: U.S. Patent No. 7,686,452 (patent protection is also secured in Canada)

Development: A pre-market, working prototype is available. This latest version is a handheld, stand-alone device. The technology can also be used in an attachment to a standard power handle used in optometrists' offices -- a version of this is illustrated in the patent.

For more information or to discuss licensing, please contact us.

<https://license.umsi.edu/product/q3d-quantitative-three-dot-test-detecting-visual-suppression-helping-kids-see>