

Orthogonal Polarization Spectral Imaging A New Tool For The Observation And Measurement Of The Human Microcirculation

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Orthogonal polarization spectral imaging (OPS imaging) is a method for imaging small blood vessels in tissue like the nail bed or lip. It uses a light source of linearly polarized light with a wavelength of 550 nanometers, an isosbestic point for hemoglobin, thus imaging the erythrocytes as they are flowing through the small blood vessels.

[Orthogonal polarization spectral imaging - Wikipedia](#)

Orthogonal polarization spectral (OPS) imaging is a relatively new noninvasive method for assessment of human microcirculation. Principles, validation studies, its advantages, limitations and current experience in clinical practice are discussed in this review. Principles of orthogonal polarization spectral imaging technology

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The orthogonal polarization spectral (OPS) imaging technique employs biologically inert polarized light without the need for any fluorescence dye (Table). This novel form of intravital microscopy has been validated by conventional fluorescence methods in standardized animal models (Langer et al, 2001; von Dobschuetz et al, 2003).

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Orthogonal polarization spectral imaging (OPS imaging) is a method for imaging small blood vessels [1] in tissue like the nail bed or lip. It uses a light source of linearly polarized light with a wavelength of 550 nanometers , an isosbestic point for hemoglobin , thus imaging the erythrocytes as they are flowing through the small blood vessels.

[Orthogonal polarization spectral imaging - WikiMilli, The ...](#)

Different disease states, including diabetes, hypertension and coronary heart disease, produce distinctive microvascular pathologies. So far, imaging of the human microcirculation

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Orthogonal polarization spectral (OPS) imaging is a relatively new noninvasive method for assessment of human microcirculation without using fluorescent dyes.

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Orthogonal Polarization Spectral (OPS) Imaging represents a major innovation over conventional intravital microscopy because of its portability and elimination of the need for special preparations. Here's how it works: Click here for animation: requires Flash

[Orthogonal Polarization Spectral \(OPS\) Imaging by Cytometrics](#)

Orthogonal polarization spectral imaging (OPS): a novel method to measure the microcirculation in term and preterm infants transcutaneously. Genzel-Borovicz é ny O (1), Str ö tgen J, Harris AG, Messmer K, Christ F.

[Orthogonal polarization spectral imaging \(OPS\): a novel ...](#)

Orthogonal polarization spectral (OPS) imaging is an optical imaging technique that uses a handheld microscope and green polarized light to visualize the red blood cells in the microcirculation of organ surfaces. The purpose of this study was to evaluate whether OPS imaging can be used for the functional and morphological evaluation of microcirculation in the conjunctiva.

[Orthogonal polarization spectral imaging of conjunctival ...](#)

The recent introduction of orthogonal polarization spectral (OPS) imaging as a new tool for in vivo visualization of human microcirculation makes it possible to acquire high resolution images of the oral mucosa.

[Orthogonal polarization spectral \(OPS\) imaging and ...](#)

Orthogonal polarization spectral imaging is a specialized form of in vivotranscutaneous videomicroscopy. Polarized light of around 548 nm (well absorbed by hemoglobin) is directed at the tissue, and reflected light is gathered through a second polarization filter perpendicular to the first.

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Orthogonal polarization spectral (OPS) imaging enables the noninvasive visualization of microvascular perfusion in humans without the use of fluorescent dyes. 5 Various clinical investigations with OPS imaging have identified microcirculatory abnormalities as a major component of the pathogenesis of sepsis 6,7 and cardiogenic shock. 8 Furthermore, the effect of therapeutic strategies could be studied using this technique in preterm infants 9 and critically ill adults. 10 – 12

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We re- port here on orthogonal polarization spectral (OPS) imaging, a new method for imaging the microcirculation using reflected light that allows imaging of the microcirculation noninvasively...

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Orthogonal polarization spectral imaging is a newly developed technique that visualizes the microcirculation using reflected light without the use of fluorescent dyes and allows for noninvasive real-time observation of functional microvascular networks.

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