Optics

Main light tissue interactions

* Specular/ scattering
* Transmission/refraction
* Absorbtion
* Fluorophore

Planar reflections, incidence = rflection

The refractive index is sin(i)/sin(r)

Propagation in tissue

The intensity of light passing through an object decays exponentions (with the absorption and scattering coefficients biening in the exponential along woth the length.

UV 🡺 absorption = scatter

Visible 🡺 ab < sca

NIR 🡺 absorbtion much smaller

IR equal