

H. Ding, J.Q. Lu, W.A. Wooden, P.J. Kragel, X.H. Hu, "Refractive Indices of Human Skin Tissues at Eight Wavelengths and Estimated Dispersion Relations between 300 and 1600nm", *Physics in Medicine and Biology*, **51**, 1479-1489 (2006)

The mean values of complex refractive index of human skin epidermis

Wavelength (nm)	n_r_s	n_r_p	n_i_s	n_i_p
325	1.489	1.486	0.00691	0.00749
442	1.449	1.447	0.0160	0.0184
532	1.448	1.446	0.00928	0.00801
633	1.433	1.433	0.0125	0.0105
850	1.417	1.416	0.0121	0.0109
1064	1.432	1.428	0.00641	0.00696
1310	1.425	1.421	0.00909	0.00985
1557	1.404	1.400	0.00672	0.00652

The coefficients of different dispersion equations for epidermis index^a

Dispersion equation	A	B	C
Cauchy	1.4134	7907.9596	-389.9784
Cornu	1.4057	13.3628	162.7100
Conrady	1.3963	25.0563	6237909.3004

^aThese coefficients were obtained on the basis of equations (2)–(4) with wavelength in the unit of nanometers.

The mean values of complex refractive index of human skin dermis

Wavelength (nm)	n_r_s	n_r_p	n_i_s	n_i_p
325	1.401	1.403	0.0147	0.0136
442	1.395	1.400	0.00953	0.00788
532	1.378	1.381	0.00927	0.00769
633	1.396	1.393	0.0125	0.0111
850	1.384	1.389	0.00982	0.00844
1064	1.375	1.385	0.0108	0.00966
1310	1.358	1.364	0.0108	0.00857
1557	1.363	1.367	0.0102	0.00837

The coefficients of different dispersion equations for dermis index^a

Dispersion equation	A	B	C
Cauchy	1.3696	3916.8026	-2558.7704
Cornu	1.2573	453.8263	-2874.5367
Conrady	1.3549	17.8990	-3593764.4133

^aThese coefficients were obtained on the basis of equations (2)–(4) with wavelength in the unit of nanometers.