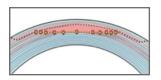
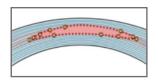
Comparison Of Three Techniques Of Laser Vision Correction - PRK vs. LASIK vs. SMILE







CRITERIA	PRK	LASIK	SMILE
Year Of Health Canada Approval	1990	1994	2015
Generation Of Equipment	5 th Generation	5 th Generation	1 st Generation
Type Of Treatment	Laser Photoablation	Laser Photoablation	Laser Photodisruption
Precision	0.12 um/pulse	0.12 um/pulse	2-3 um/pulse
Smoothness Of Refractive Correction	Smooth excimer ablation	Smooth excimer ablation	Femtosecond - rougher than excimer
Blade-free Procedure	Yes	Yes	Yes
Type Of Laser	Excimer Laser	Femtosecond & Excimer Lasers	Femtosecond Laser
Myopic Correction: Low < 3 D	Yes	Yes	Difficult if thin lenticule
Myopic Correction: High >3 D	Yes	Yes	Yes
Myopic Astigmatic Correction	Yes	Yes	Difficult if spheroequivalent < 3 D
Hyperopic Correction	Yes	Yes	Future
Hyperopic Astigmatic Correction	Yes	Yes	Future
Topography-Guided Treatments	Yes	Yes	Future
Wavefront-Guided Treatments	Yes	Yes	Future
Optical Centration Adjustment	Yes	Yes	Future
Return of Best Uncorrected Acuity 1-4	Slowest	Fastest	Slower than LASIK
Best Uncorrected Acuity ¹⁻⁴	Superior (Custom Ablation)	Superior (Custom Ablation)	Good (Non-Customized)
Higher-Order Aberrations ¹⁻⁴	Less (Custom Ablation)	Less (Custom Ablation)	Highest (Non-Customized)
Enhancements	Yes	Yes	More Difficult
Dry Eyes < 6 month ⁵	Increase (typically mild)	Increase (typically mild)	Increase (less than PRK or LASIK)
Dry Eyes > 6 months ⁵	Same	Same	Same
Risk of Ectasia - Low myopia ⁶	Low (Less Tissue Removed)	Low (Less Tissue Removed)	Greater (More Tissue Removed)
Risk of Ectasia - High myopia ⁶	Same	Same	Same



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