



A Lithium Disilicate Block With 100% Survival

Achieving 100% Survival After 4 Years Of Clinical Service

Published in the April issue of American Journal of Dentistry 2024, “A randomized controlled clinical trial on press and block lithium disilicate partial crowns: A 4-year recall” authored by Edoardo Ferrari-Cagidiaco, Giulia Verniani, Andrew Keeling, Ferdinando Zarone, Roberto Sorrentino, Daniele Manfredini, Marco Ferrari, a clinical trial¹ compared the performance of adhesively bonded partial coverage crowns manufactured either with a digital workflow using Initial™ LiSi Block or with an analog workflow using LiSi Press.

“No statistically significant difference emerged between the two groups in any of the assessed variables (P>0.05) ... and no one restoration was replaced or repaired, and the survival rate was 100% after 4 years of clinical service.”

Am J Dent. 2024 Apr;37(2):85-90

Initial™ LiSi Block, featuring HDM lithium disilicate technology, shows comparable clinical performance to pressed lithium disilicate with the added advantages of:

- Productivity benefits from faster workflow; patient convenience & practice profitability
- Quality benefits from a ceramic with superior marginal fit, greater wear resistance & lower wear on the antagonist²
- Aesthetic benefits from a high gloss, naturally opalescent lithium disilicate with exceptional anterior aesthetics— meaning no requirement to cut back on the incisal edge; thus retaining incisal edge strength

The HDM (High Density Micronisation) technology features submicron lithium disilicate crystals which are densely packed into the glass matrix.

Aside from beautiful opalescence, the structure of Initial™ LiSi Block ensures high strength and surface polish while enabling the fully crystallised block to be milled without deep microcracking or damage to margin detail.

GC Initial™ LiSi Block offers reduced process time: no need to fire because it is fully crystallised. Just mill, polish and place! Available in high translucency (HT) and low translucency (LT), giving you a natural opalescence in any light. See the new and revised preparation guidelines and transform your CAD/CAM workflow today.

Reference List

1. Ferrari-Cagidiaco, E., Verniani, G., Keeling, A., Zarone, F., Sorrentino, R., Manfredini, D., & Ferrari, M. (2024). A randomized controlled clinical trial on press and block lithium disilicate partial crowns: A 4-year recall. American journal of dentistry, 37(2), 85–90.
2. GC R&D, Japan, Data on file [marginal gap was quantified by µ-X ray CT system] available from info.australasia@gc.dental.

