









Initial LiSi Block

Lithium Disilicate Redefined for CAD/CAM

Key Map	
₩	Strong
∞	Durable
. C.	Aesthetic
0	Time-saving
(\$)	Cost-efficient





Chemical durability of CAD/CAM glass-ceramic blocks.

Hoshino T, Matsudate Y, Sasaki K. 2019. 97th General Session & Exhibition of the IADR. J Dent Res 98 (Spec Iss A):abstract number 0100.



7

Mechanical properties and microstructure of novel Lithium disilicate glass ceramic block for CAD/CAM.

Nagaoka K, Kato K, Akiyama S, Kojima K, Miyake T, Azuma T, Shiraki K, Yamamoto K, Kumagai T. 2019. ICP and EPA Joint Meeting.



7

<u>In vitro Surface Roughness of Novel Lithium Silicate CAD/CAM Material.</u>

Valcanaia A, Neiva G. 2020. 98th General Session & Exhibition of the IADR. J Dent Res 99 (Spec Iss A): abstract number 1827.



7

Edge Chipping Resistance of Glass Ceramic Block for CAD/CAM.

Kato K, Kumagai T, Akiyama, Kojima K, Miyake T, Azuma T, Nagaoka K, Shiraki K, Fujimoto A, Yamamoto K. 2020. 98th General Session & Exhibition of the IADR. J Dent Res 99 (Spec Iss A):abstract number 0083.



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<u>Influence of Crystallization Firing on the Fit of Lithium</u> Silicate Inlays

Niizuma Y, Kobayashi M, Sugai R, Mizukami H, Manabe A. 2021. 99th General Session & Exhibition of the IADR. 1578.



Wear properties of lithium silicate glass ceramic block for CAD/CAM

Kojima K, Kumagai T, Kato K, Akiyama S, Miyake T, Azuma T, Nagaoka K, Shiraki K, Yamamoto K, Sato T. 2019. 97th General Session & Exhibition of the IADR. J Dent Res 98 (Spec Iss A): abstract number 1259.



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Wear resistance of CAD/CAM glass ceramic blocks

Hoshino T, Matsudate Y, Sasaki K. 2020. 98th General Session & Exhibition of the IADR. J Dent Res 99 (Spec Iss A): abstract number 1823.



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Evaluation of Acid Resistance for Novel Lithium Disilicate Glass-Ceramic Block

Azuma T, Shigenori A, Fusejima F. 2021. CED-IADR/NOF Oral Health Research Congress. J Dent Res 100 (Spec Iss B): abstract number 0233.



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Evaluation of shear bond strength of glass-ceramic CAD-CAM materials.

Vombraut T, D'haese R, Sabrosa E, Geber K, Vandeweghe S. 2021. CED-IADR/NOF Oral Health Research Congress. J Dent Res 100 (Spec Iss B):abstract number 0203.



<u>Fitting evaluation after heat treatment of lithium disilicate glass ceramic block for CAD/CAM.</u>

Murata Y , Yamamoto K, Nagaoka K, Azuma T, Kojima K, Akiyama S, Fusejima F. ICP 2021 Virtual Meeting.

New

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<u>CAD/CAM fabricated prosthetic accuracies of Lithium</u> Disilicate Glass Ceramic Block.

Yamamoto K, Hokii Y, Fusejima F. 2021. ADM 2021 Virtual Meeting.

New

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-	Strong	
∞	Durable	
. C.	Aesthetic	
(1)	Time-saving	
(\$)	Cost-efficient	





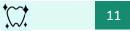
<u>A randomized controlled clinical trial on press and block</u> lithium disilicate partial crowns: a pilot study.

Kojima K, Ferrari Cagidiaco E, Keeling A, Ferrari M. 2020. J Osseointegr. 12(3):215-221.

11

<u>Fracture-behavior of CAD/CAM ceramic crowns before</u> and after cyclic fatigue aging.

Garoushi S, Säilynoja E, Vallittu PK, Lassila L. 2021. Int J Prosthodont.



Shear bond strengths of two newly marketed selfadhesive resin cements to different substrates: A light and scanning electron microscopy evaluation.



Atalay C, Vural U, Miletic I, Gurgan S. 2021. Microsc Res Tech. 2021;1–9.

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Кеу Мар		
H	Strong	
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Initial LiSi Block

TITLE	Chemical durability of CAD/CAM glass-ceramic blocks
REFERENCE	Hoshino T, Matsudate Y, Sasaki K. 2019. 97th General Session & Exhibition of the IADR. J Dent Res 98 (Spec Iss A):abstract number 0100. https://iadr.abstractarchives.com/abstract/19iags-3168964/chemical-durability-of-cadcam-glass-ceramic-blocks
Solubility of LiSi Block was much lower than that of the other products tested.	
Low chemical solubility of LiSi may help in successful clinical outcome in the acidic environment of the oral cavity.	

TITLE	:	Mechanical properties and microstructure of novel Lithium disilicate glass ceramic block for CAD/CAM
REFE	RENCE	Nagaoka K, Kato K, Akiyama S, Kojima K, Miyake T, Azuma T, Shiraki K, Yamamoto K, Kumagai T. 2019. ICP and EPA Joint Meeting.
The flexural strength of LiSi Block was 17% and 63% higher than Celtra Duo and Vita Enamic respectively.		
Excellent values of flexural strength presented by LiSi Block may help support an outstanding clinical outcome even in the presence of high chewing forces.		

TITLE	In vitro Surface Roughness of Novel Lithium Silicate CAD/CAM Material
REFERENCE	Valcanaia A, Neiva G. 2020. 98th General Session & Exhibition of the IADR. J Dent Res 99 (Spec Iss A): abstract number 1827. https://iadr.abstractarchives.com/abstract/20iags-3324513/in-vitro-surface-roughness-of-novel-lithium-silicate-cadcam-material
Polishing resulted in the lowest surface roughness.	
Not only does LiSi Block polishability saves time but it also may help reduce wear of opposing dentition or restoration.	





Initial LiSi Block

TITLE	Edge Chipping Resistance of Glass Ceramic Block for CAD/CAM
REFERENCE	Kato K, Kumagai T, Akiyama, Kojima K, Miyake T, Azuma T, Nagaoka K, Shiraki K, Fujimoto A, Yamamoto K. 2020. 98th General Session & Exhibition of the IADR. J Dent Res 99 (Spec Iss A):abstract number 0083. https://iadr.abstractarchives.com/abstract/20iags-3315704/edge-chipping-resistance-of-glass-ceramic-block-for-cadcam
LiSi Block presented higher resistance to edge chipping compared to e.max CAD	
Excellent fit and reduced chipping may lead LiSi Block restorations to successful long-term outcomes.	

TITLE	Influence of Crystallization Firing on the Fit of Lithium Silicate Inlays
REFERENCE	Niizuma Y, Kobayashi M, Sugai R, Mizukami H, Manabe A. 2021. 99th General Session & Exhibition of the IADR. J Dent Res 100 (Spec Iss A):abstract number 1578. Influence of Crystallization Firing on Fit of Lithium Silicate Inlays IADR Abstract Archives
LiSi Block had less gaps at the occlusal and cervical margins compared to e.max CAD and Vita Suprinity.	
Distortion or changes in dimension may lead to clinical failure. LiSi Block's technology helps to prevent distortions.	

TITLE	Wear properties of lithium silicate glass ceramic block for CAD/CAM
REFERENCE	Kojima K, Kumagai T, Kato K, Akiyama S, Miyake T, Azuma T, Nagaoka K, Shiraki K, Yamamoto K, Sato T. 2019. 97th General Session & Exhibition of the IADR. J Dent Res 98 (Spec Iss A): abstract number 1259. Wear properties of lithium silicate glass ceramic block for CAD/CAM IADR Abstract Archives
LiSi Block showed 90% less wear compared to e.max CAD and Celtra Duo. The chance of damaging the antagonist was also lower for LiSi Block , 25% and 75% compared to e.max and Celtra Duo respectively.	
Not only does LiSi Block polishability saves time but it also may help reduce wear of opposing dentition or restoration.	





Initial LiSi Block

TITLE	Wear resistance of CAD/CAM glass ceramic blocks
REFERENCE	Hoshino T, Matsudate Y, Sasaki K. 2020. 98th General Session & Exhibition of the IADR. J Dent Res 99 (Spec Iss A): abstract number 1823. https://iadr.abstractarchives.com/abstract/20iags-3294486/wear-resistance-of-cadcam-glass-ceramic-blocks
LiSi Block showed 80% less wear than e.max CAD and 25% less chance to damage the antagonist.	
Not only does LiSi Block polishability saves time but it also may help reduce wear of opposing dentition or restoration.	

TITLE	Evaluation of Acid Resistance for Novel Lithium Disilicate Glass-Ceramic Block
REFERENCE	Azuma T, Shigenori A, Fusejima F. 2021. CED-IADR/NOF Oral Health Research Congress. J Dent Res 100 (Spec Iss B): abstract number 0233. https://ced-iadr2021.com/wp-content/uploads/2021/09/Abstract-book 2021-9-20 Adjusted-version.pdf p.108
Low chemical solubility of LiSi Block may help result in successful clinical outcome in the acidic environment of the oral cavity.	

TITLE	Evaluation of shear bond strength of glass-ceramic CAD-CAM materials	
REFERENCE	Vombraut T, D'haese R, Sabrosa E, Geber K, Vandeweghe S. 2021. CED-IADR/NOF Oral Health Research Congress. J Dent Res 100 (Spec Iss B):abstract number 0203. https://ced-iadr2021.com/wp-content/uploads/2021/09/Abstract-book 2021-9-20 Adjusted-version.pdf p.99	
The sh	The shear bond strength of LiSi Block was increased after 5,000 thermocycles.	
Increased value of shear bond strength presented by LiSi Block may help support outstanding clinical outcomes.		





Initial LiSi Block

New

TITLE	Fitting evaluation after heat treatment of lithium disilicate glass-ceramic block for CAD/CAM	
REFERENCE	Murata Y , Yamamoto K, Nagaoka K, Azuma T, Kojima K, Akiyama S, Fusejima F ICP 2021 Virtual Meeting. link not available	
LiSi block showed the smallest gap among the products tested, and gap size of these specimens was not affected by heating treatment.		
Distortion or changes in dimension may help to clinical failure. LiSi Block's technology may help to prevent distortions.		

New

TITLE	CAD/CAM fabricated prosthetic accuracies of Lithium Disilicate Glass Ceramic Block	
REFERENCE	Yamamoto K, Hokii Y, Fusejima F. 2021. ADM 2021 Virtual Meeting. link not available	
LiSi block showed the highest accuracy compared to e.max and CEREC Tessera.		
LiSi Block does not need firing, not only saving time, but also contributing to an accurate restoration. Distortion or changes in dimension may lead to clinical failure. LiSi Block's technology may help to prevent distortions		





Full Paper

Initial LiSi Block

TITL	E	A randomized controlled clinical trial on press and block lithium disilicate partial crowns: a pilot study	
REFE	ERENCE	Ferrari Cagidiaco E, Keeling A, Ferrari M. 2020. J Osseointegr. 12(3):215-221. https://doi.org/10.23805/JO.2020.12.03.1	
++	After 1 year of clinical service, LiSi Press and LiSi Block presented similar clinical outcome and effectiveness, with 100% success rate.		
` <u>`</u>	Randomized clinical trial protocols are one of highest level of evidence-based dentistry. Therefore, results presented here, with 100% success rate of LiSi Block, are outstanding.		

TITLE		Fracture-behavior of CAD/CAM ceramic crowns before and after cyclic fatigue aging
REFERENCI		Garoushi S, Säilynoja E, Vallittu PK, Lassila L. 2021. Int J Prosthodont. doi: 10.11607/ijp.7207
With	Without the need of firing, LiSi Block presented similar load bearing capacity to that presented by e.max CAD.	
LiSi B	LiSi Block does not require firing. Its high load bearing capacity may help to prevent catastrophic failure even in the presence of high masticatory forces.	

New

TITLE	Shear bond strengths of two newly marketed self-adhesive resin cements to different substrates: A light and scanning electron microscopy evaluation	
REFERENCE	Atalay C, Vural U, Miletic I, Gurgan S. 2021. Microsc Res Tech. 2021;1–9. Shear bond strengths of two newly marketed self-adhesive resin cements to different substrates: A light and scanning electron microscopy evaluation - PubMed (nih.gov)	
LiSi Block performed as good as RelyX Universal when bonding to LiSi Block.		
The combination G-CEM ONE & LiSi Block resulted in high bond strength after 24-h storage period. This may help in producing clinical success.		

