

GelCODE®

Natural tissue-derived
extracellular matrix for the
treatment of corneal ulcers and
regeneration of corneal stroma



Deriving the top priority value
that can consistently demonstrate outstanding performance
based on a reliable solution

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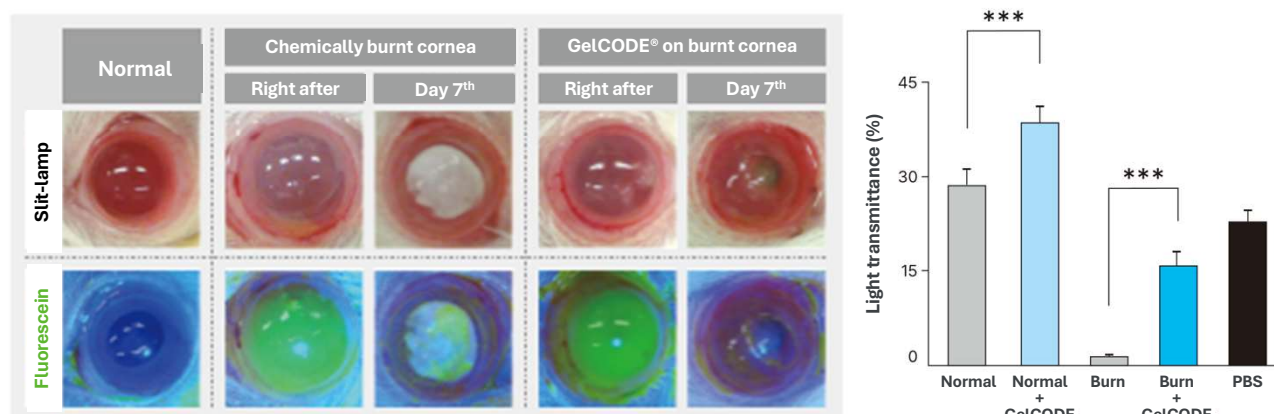
GelCODE®

GelCODE, an adhesive hydrogel restorative material derived from corneal stroma, enables immediate wound recover through blue light irradiation and promotes corneal regeneration by alleviating inflammation.

Stable ulcer restoration	Restorative function through crosslinking technique targeting tyrosine from corneal stroma
High transparency	Use of highly transparent corneal matrix to restore corneal visual function
Healing effects	Immediate relief of inflammation and promotion of corneal regeneration
Ease of use	Induction of adhesiveness through crosslinking with just 2-min blue light exposure
Safety performance	Excellent safety <i>in vivo</i> by using high-quality corneal matrix-derived material & Minimization of inflammation and side effects through biodegradation

Improvement of Corneal Opacity

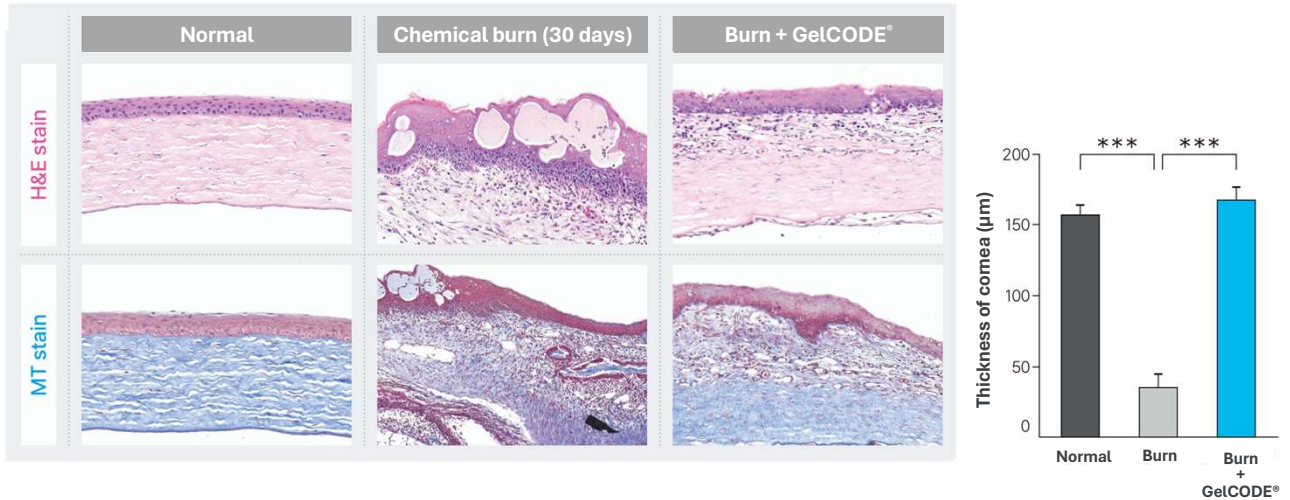
The animal group treated with GelCODE® after inducing a chemical burn on the cornea showed a 15-fold improvement in opacity compared to the group that only received clinical treatment



Preclinical testing organization: Ophthalmology Dept. of Asan Medical Center

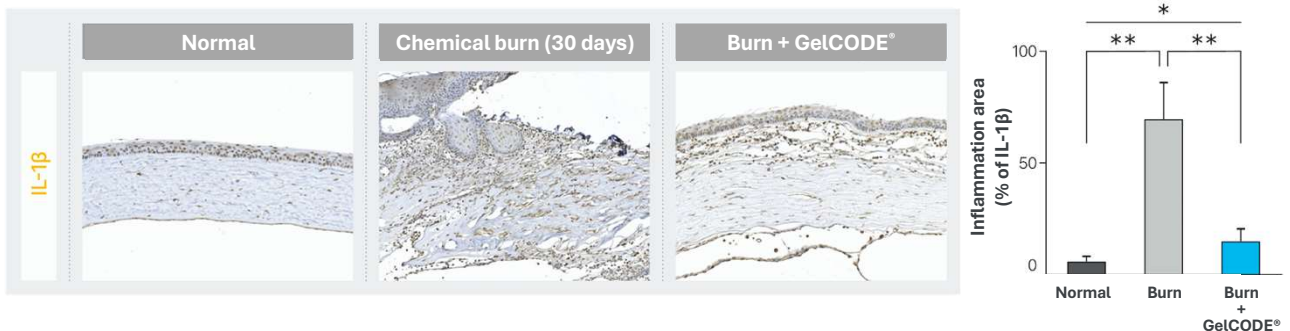
Corneal Regeneration Effect

In the animal group subjected to chemical burns and treated with GelCODE® to the cornea, recovery to a corneal thickness comparable to that of normal cornea was observed, along with the regeneration of both the corneal epithelium and stroma.



Anti-inflammatory Effect

Proinflammatory cytokine IL-1β was significantly suppressed in the animal group treated with GelCODE® on the cornea after chemically induced burns.



Instruction

① Apply GelCODE directly to the corneal scar



② Irradiate with blue light for 30s~2min

