Application Bulletin

UVP-AB-117

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Use of Ultraviolet in Identifying Eye Injuries

Application: Identify eye injuries.

Wavelengths Used: Longwave (365nm) ultraviolet

Field of Use: Opthamology

Background: Since it is not safe or efficient to inspect eye for injuries with a bright white light source, the Opthamologist uses a sodium fluorescein impregnated sterile eye strip and a UVP UVL-56 longwave lamp for fluorescence.

Procedure: The fluorescein impregnated strip is placed on the anterior segment of the eye. Wherever the cornea is damaged, the sodium fluorescein will penetrate the damaged area and reside in the underlying tissue. When illuminated with a UVP UVL-56 lamps, the damaged areas will exhibit significantly greater fluorescence than surrounding areas, revealing corneal surface injuries.

Primary Advantages of this Method: Identifying eye injuries with a UVL-56 longwave lamp and fluorescein eye strip enables the Opthamologist to accurately access surface eye injuries quickly and economically.

Recommended Lamps: UVL-56, UVL-21 Handheld UV Lamps