

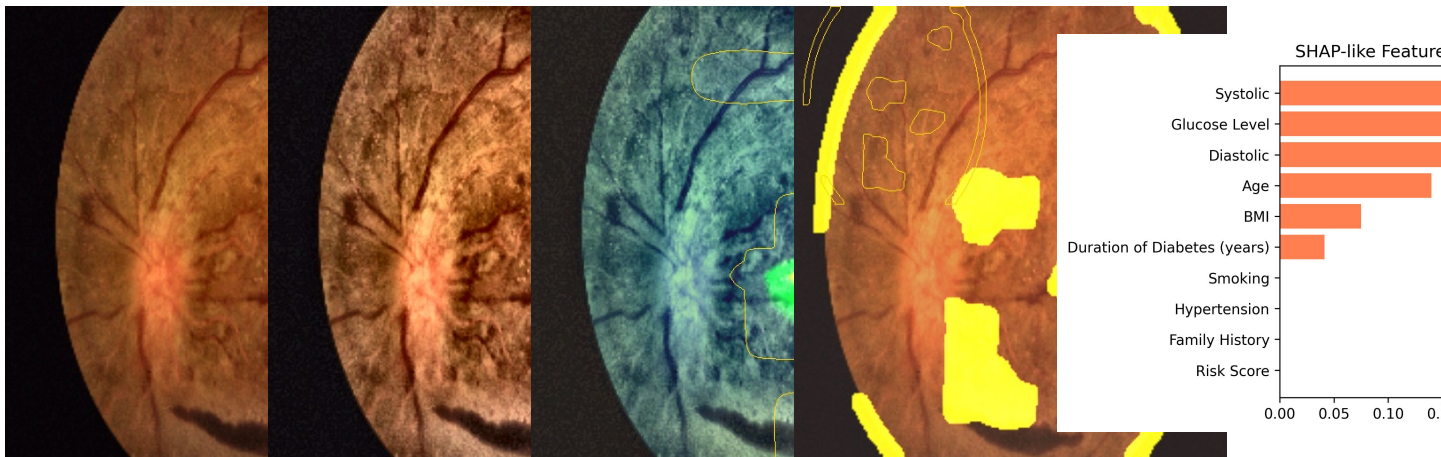
## Doctor Report — Clinical Summary

Patient ID	aug_3223686	Age	61.0
Gender	Male	BP (Sys/Diast)	142.0/72.0

**AI Diagnosis:** Severe NPDR / Early PDR (High risk)

**AI Confidence:** —

Metric	Value
Lesion coverage (%)	26.51%
Exudates (%)	0.42%
Hemorrhages (%)	1.44%
Cotton-wool (%)	5.37%



### AI Interpretation:

- The model detected lesion regions highlighted in the Grad-CAM and LIME visualizations that correspond to exudates and hemorrhages.
- Lesion coverage suggests the disease stage and severity; please correlate with clinical exam (slit lamp, OCT) before intervention.
- SHAP-derived metadata importance shows key contributors (age, blood glucose, blood pressure). Use these to guide systemic management.

### Clinical Recommendations (AI):

- Urgent referral to retina specialist for PDR findings if lesion coverage is high.
- Control systemic risk factors: optimize glycemic control, manage hypertension.
- Consider additional imaging (OCT, FFA) to quantify neovascularization and macular involvement.
- Document findings and schedule follow-up screening in 3 months or sooner if symptoms worsen.



Generated by VisionAI — automated screening assistant