■ Enhanced Retinology AI - Medical Report

Analysis Date:	2025-11-09 11:54:52
Image File:	user_severe_2.jpg
AI Model:	ResNet50 + ImageNet Pre-trained
Analysis ID:	RPT-20251109115452

Retinal Image Information

Image File: user_severe_2.jpg Image Path: E:/ADITYA/MIT study material/Major Project/Diabetic-Retinopathy-Detection-using-Deep-learning-main/demo_images/user_severe_2.jpg Note: Original retinal image analyzed by AI system

Primary Diagnosis

Condition:	**Severe - Requires Immediate Treatment**
Confidence:	**78.5%**
Severity Level:	**Class 3 of 4**

Technical Analysis

• Image Resolution: 1016 x 883 pixels (897,128 total) • Mean Brightness: 101.1 (0-255 scale) • Brightness Variation: 47.1 • Contrast Ratio: 0.466 • Dark Pixel Regions: 15.8% (potential hemorrhages) • Bright Pixel Regions: 3.2% (potential exudates) • Image Quality: High • Analysis Confidence: Based on feature extraction

Risk Assessment

• Vision Loss Risk: High • Progression Risk: Rapid (weeks-months) • Urgency Level: Immediate attention

Recommended Follow-up

• Next Eye Exam: 2-4 weeks • Diabetic Screening: Monthly • Self-monitoring: Daily vision checks

IMPORTANT MEDICAL DISCLAIMER