



## ■ Retinology AI - Medical Report

|                |                                 |
|----------------|---------------------------------|
| Analysis Date: | 2025-11-09 15:17:45             |
| Image File:    | user_severe_2.jpg               |
| AI Model:      | ResNet50 + ImageNet Pre-trained |
| Analysis ID:   | RPT-20251109151745              |

### Patient Retinal Image



Oligerative Diabetic Retinopathy, Neovascularization of Disc  
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Image File: user\_severe\_2.jpg

## Primary Diagnosis

|                        |  |
|------------------------|--|
| <b>Condition:</b>      | <b>Severe - Requires Immediate Treatment</b> |
| <b>Confidence:</b>     | <b>78.9%</b>                                 |
| <b>Severity Level:</b> | <b>Class 3 of 4</b>                          |

## 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**

This AI analysis is for screening purposes only. Always consult qualified ophthalmologists for proper medical diagnosis and treatment decisions. This report should not be used as the sole basis for medical decisions.