To create an Assurance Case for the DeepMind system focusing on the interpretability of its ML models used in predicting retinal diseases, we instantiate the given assurance case pattern with the specific information about the DeepMind system. Below is the instantiated hierarchical tree structure of the GSN assurance case for the DeepMind system:

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G1: Interpretability Claim. The DeepMind's ML Model is sufficiently interpretable in the clinical setting of retinal diagnosis

C1: DeepMind's ML Model processes retinal scans to generate a tissue-segmentation map, then uses it to diagnose and recommend treatment.

C2: "Interpretable" in this context means providing understandable and clinically relevant insights that mirror clinicians' decision-making processes.

C3: Context: The clinical setting of retinal diagnosis, primarily focused on rapidly integrating insights into clinical workflows without disruption.

S1: Argument based on the essential aspects of interpretability in medical diagnostics

C4: Essential aspects of interpretability include clarity, relevance, and accuracy in the clinical context.

G2: Right Method. The right interpretability methods are implemented (i.e., the correct information is faithfully being explained)

C5: Interpretability methods include visual explanations, certainty levels, and correlation with known medical indicators.

S2: Argument over interpretability methods ensuring faithfulness and appropriateness

G8: Interpretability method employs the right type, e.g., local/global explanations suitable for clinical use (i.e., the correct thing is being explained)

G9: Interpretability method is suitably faithful to the ML model's process in the clinical diagnosis of retinal diseases

G3: Right Context. Interpretations produced within a clinical setting during diagnostic evaluations

C6: Format and timing of interpretations are critical in medical settings for acceptance and utility.

G5: Right Time. Interpretations are produced at the appropriate time during clinical assessments

G6: Right Setting. Interpretations are available at the right points within the clinical system

G7: Right Audience. Interpretations are specifically designed for retinal clinicians

G4: Right Format. Interpretability methods are presented in formats (visual, textual explanations) appropriate for retinal clinicians

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In this assurance case, placeholders in the pattern are replaced with specific system details, aligning the interpretability claim with DeepMind's operational context. Additionally, undeveloped goals such as G4, G5, G6, G7, G8, and G9 would need further elaboration and evidence to fully develop the assurance case.