Below is the instantiated assurance case for the DeepMind system using the provided assurance case pattern and the context information. For this instantiation, I will replace placeholders with specific details about the DeepMind system, remove uninstantiated and undeveloped decorators, and focus on the medical interpretation aspect in the retinal diagnosis context.

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G1: Interpretability Claim. The DeepMind ML model is sufficiently interpretable in the clinical pathway for retinal diagnosis.

C1: The DeepMind ML model processes retinal scans to generate a tissue-segmentation map.

C2: Interpretable refers to the ability to provide understandable and relevant explanations of the machine learning model's decisions to retinal clinicians.

C3: Context: The clinical setting focusing on retinal diagnosis where timing and clinician interaction are significant.

S1: Argument based on the essential aspects of interpretability.

C4: Essential aspects of interpretability include transparency, explanability, and relevance to clinical outcomes.

G2: Right Method. The right interpretability methods are implemented, i.e., the tissue-segmentation maps are faithfully explained.

S2: Argument over interpretability methods.

G8: The segment map based interpretability method is the right type (local emphasis on specific regions of interest in the retina).

G9: The segment map method is suitably faithful to the ML model process, reflecting the neural network’s focus.

C5: Interpretability methods include the use of the segmentation map as an intermediary step to increase transparency.

G3: Right Context. Interpretations produced in the clinical pathway for retinal diagnosis.

G5: Right Time. Interpretations are produced at the appropriate time concurrent with diagnosis predictions.

G6: Right Setting. Interpretations are available in the clinical setting where the diagnosis happens.

G7: Right Audience. Interpretations produced for retinal clinicians.

C6: Format of interpretations refers to the visual and data-driven manner suitable for quick assessment by clinicians.

G4: Right Format. Interpretability methods are presented in the right format for retinal clinicians.

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This assurance case hierarchy clearly shows the relationship between various goals, strategies, and contexts specific to the DeepMind system, ensuring that each aspect of interpretability is addressed and aligned with the needs of the clinical environment and target audience.