Given the context and assurance case pattern details provided for the DeepMind system, let's instantiate the given assurance case pattern. First, we will remove all placeholders and instantiate them with specific information relevant to the DeepMind system. Each "uninstantiated" and "undevelopStantiated" decorator will be removed as well, replacing them with precise claims based on the system context.

### Instantiated Assurance Case for the DeepMind System:

- \*\*G1: Interpretability Claim\*\*

- \*\*Interpretability of DeepMind’s ML model is sufficiently transparent in the clinical diagnostic context\*\*

- @Context (C1)

- ML Model: DeepMind's dual neural network for retinal disease diagnosis

- @Context (C2)

- Interpretable: Producing a tissue-segmentation map as an interpretable intermediate result

- @Context (C3)

- Context: Clinical pathway for retinal diagnosis

- \*\*S1: Argument based on the essential aspects of interpretability\*\*

- @Context (C4)

- Essential aspects of interpretability: Transparency, understandability for clinicians

- \*\*G2: Right Method\*\*

- \*\*The tissue-segmentation map method provides faithful explanations of ML processing\*\*

- @Context (C5)

- Interpretability methods: tissue-segmentation map, how it represents retinal tissue state

- \*\*S2: Argument over interpretability methods\*\*

- \*\*G8: Correct Explanatory Scope\*\*

- \*\*The segmentation map method is the right type (global) for understanding ML processes\*\*

- \*\*G9: Method–Model Faithfulness\*\*

- \*\*The segmentation map faithfully represents neural network’s diagnostic process\*\*

- \*\*G3: Right Context\*\*

- \*\*Interpretations using the segmentation map are made directly in the diagnostic pathway\*\*

- @Context (C6)

- Format of Interpretations: Visual maps alongside diagnostic predictions

- \*\*G5: Right Time\*\*

- \*\*Interpretations are generated concurrently with diagnosis to facilitate clinical decisions\*\*

- \*\*G6: Right Setting\*\*

- \*\*Interpretations available in clinical systems within the diagnostic workflow\*\*

- \*\*G7: Right Audience\*\*

- \*\*Interpretations tailored for retinal clinicians to enhance understanding\*\*

This newly instantiated assurance case for the DeepMind system demonstrates how the interpretability of the machine learning model is integrated and ensured within the clinical context for retinal diagnostics. Each goal and strategy is explicitly connected to components and functionalities of the DeepMind system, providing a clear and structured argument how interpretability is addressed at various levels, from methods to delivery in the practical setting.