To create the assurance case for the DeepMind system from the provided assurance case pattern, I will instantiate the placeholders with specific information related to the DeepMind system as per the domain information and remove the additional assurance case pattern decorators. The pattern will be depicted hierarchically using dashes as requested.

\*\*Assurance Case for DeepMind System Using GSN\*\*

- \*\*G1: Interpretability Claim. The DeepMind ML Models are sufficiently interpretable in the clinical pathway for retinal diagnosis.\*\*

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

- \*\*C4: Essential aspects of interpretability are transparency and traceability of the machine learning decision-making process.\*\*

- \*\*G2: Right Method. The right interpretability methods are implemented, i.e., the segmentation map and confidence levels are faithfully being explained.\*\*

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

- \*\*C5: Interpretability methods include segmentation maps and confidence levels.\*\*

- \*\*G8: Interpretability method is the right type, i.e., local for individual diagnoses explanations.\*\*

- \*\*G9: Interpretability method is suitably faithful to the ML model process, reflecting actual decision pathways used.\*\*

- \*\*G3: Right Context. Interpretations produced in the clinical settings during diagnosis.\*\*

- \*\*C6: Format of interpretations is textual and visual representations tailored for retinal clinicians.\*\*

- \*\*G5: Right Time. Interpretations are produced at the time of diagnosis presentation.\*\*

- \*\*G6: Right Setting. Interpretations are available within the clinical software used in hospitals.\*\*

- \*\*G7: Right Audience. Interpretations are made for retinal clinicians.\*\*

- \*\*G4: Right Format. Interpretability methods are presented in visual and textual formats suitable for retinal clinicians.\*\*

- \*\*C1: ML Model refers to the DeepMind neural networks processing retinal scans.\*\*

- \*\*C2: Interpretable in this context means providing clear, understandable explanations for non-expert users, specifically clinicians.\*\*

- \*\*C3: Context includes clinical pathways for diagnosing retinal diseases.\*\*

This structure addresses the key goals and strategies pertinent to the Interpretability Claims of the DeepMind system, specifically focusing on ensuring that the interpretability is adequate for practical clinical use. Each goal and strategy has been contextualized to reflect the specific usage within medical imaging and diagnosis, ensuring the assurance case is relevant and applicable to the intended environment and audience.