Here is the instantiated assurance case for the DeepMind medical imaging and diagnosis system, represented in a hierarchical tree format using dashes (-) to denote different levels.

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G1: Interpretability Claim. The DeepMind medical imaging system is sufficiently interpretable in the intended clinical pathway context

- C1: The DeepMind medical imaging system uses two neural networks to process retinal scans and generate tissue-segmentation maps and diagnoses

- C2: By producing a tissue-segmentation map, the system aims to be interpretable to retinal clinicians

- C3: Context: setting time and audience

- S1: Argument based on the essential aspects of interpretability

- C4: Essential aspects of interpretability

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

- C5: Interpretability methods include producing a tissue-segmentation map

- S2: Argument over interpretability methods

- G8: Interpretability method is the right type e.g., local/global (i.e., the correct thing is being explained)

- G9: Interpretability method is suitably faithful to DeepMind medical imaging system process

- G3: Right Context. Interpretations produced in the intended clinical pathway context

- C6: Interpretability methods are presented in a familiar format to retinal clinicians

- G5: Right Time. Interpretations produced at the appropriate time

- G6: Right Setting. Interpretations are available in the right setting

- G7: Right Audience. Interpretations produced for the right audience

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

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The hierarchy reflects the structured nature of the assurance case:

1. \*\*G1:\*\* Top-level goal stating the primary interpretability claim.

- \*\*C1, C2, C3:\*\* Context elements providing background information for the claim.

2. \*\*S1:\*\* Strategy summarizing the argument based on essential aspects of interpretability.

- \*\*C4:\*\* Context for strategy S1.

3. \*\*G2, G3, G4:\*\* Goals supporting the essential aspects of interpretability.

4. \*\*S2:\*\* Strategy supporting G2 by focusing on interpretability methods.

- \*\*G8, G9:\*\* Goals explaining the correctness and faithfulness of the interpretability methods.

- \*\*C5, C6:\*\* Contexts specific to the interpretability methods and presentation format.

5. \*\*G3:\*\* A goal exploring the right context with its supporting goals (G5, G6, G7).

- \*\*G5, G6, G7:\*\* Goals ensuring the interpretations are produced at the right time, setting, and audience.

This structure provides a clear, step-by-step breakdown of how the interpretability claims of the DeepMind system are substantiated by various arguments and evidences.