Below is the derived assurance case for the DeepMind system based on the given assurance case pattern, instantiated with system-specific information and displayed in a hierarchical tree format.

```plaintext

G1: Interpretability Claim: The DeepMind system’s ML Model is sufficiently interpretable in the intended clinical context.

C1: The ML Model of the DeepMind system.

C2: The DeepMind system is sufficiently interpretable.

C3: The context includes clinical setting, time of use, and the audience of retinal clinicians.

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 used by the DeepMind system.

S2: Argument over interpretability methods.

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

G9: The interpretability method is suitably faithful to the ML model process.

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

C6: Format of interpretations.

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

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

G7: Right Audience: Interpretations are produced for the right audience of retinal clinicians.

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

C6: Format of interpretations.

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