Based on the provided assurance case pattern predicates, I will instantiate an assurance case for the DeepMind system that focuses on the interpretability of its machine learning model for diagnosing retinal diseases from eye scans. Below, I present the instantiated assurance case in a hierarchical GSN tree format:

```

G1: Interpretability Claim. The DeepMind ML Model is sufficiently interpretable in clinical settings

C1: Description of the ML Model used in DeepMind system

C2: Interpretability in clinical settings focuses on enabling clinicians to understand model predictions

C3: Context includes clinical settings, timing of predictions, and retinal clinicians as the audience

S1: Argument based on the essential aspects of interpretability

C4: Essential aspects of interpretability include transparency, understandability, and relevance

G2: Right Method. The right interpretability methods are implemented in DeepMind system

S2: Argument over interpretability methods such as tissue-segmentation maps

C5: Interpretability methods include tissue-segmentation maps and confidence levels

G8: Interpretability method is the right type, i.e., local, explaining individual diagnoses

G9: Interpretability method is suitably faithful to the DeepMind ML model process

G3: Right Context. Interpretations are produced in clinical settings during diagnosis

C6: Format of interpretations includes visualization of segmentation maps and textual confidence levels

G5: Right Time. Interpretations produced at the appropriate time during clinical workflow

G6: Right Setting. Interpretations are available in the clinical setting where decisions are made

G7: Right Audience. Interpretations produced for retinal clinicians

G4: Right Format. Interpretability methods are presented in formats familiar to and useful for clinicians (undeveloped)

```

### Additional Notes for Undeveloped Goals:

- \*\*G4, G5, G6, G7, G8, G9\*\*: These goals have been marked as undeveloped in the assurance case, which means that while the overall argument about the right format, time, setting, and audience has been presented, individual detailed arguments and evidence in support of these claims need to be further developed.

By developing the undeveloped aspects and continuously refining the evidence backing the claims, this assurance case will effectively support the safe and reliable integration of the DeepMind ML model into clinical workflows for retinal disease diagnosis.