

# Surgical Collaboration Protocols: Structured Question and Proposed Approach

## Comprehensive Question

You are a Lead Surgeon coordinating care for both moderate and high-complexity surgical cases involving multiple medical specialists (e.g., anesthesiology, radiology, internal medicine, ICU, social work). To ensure effective collaboration, shared accountability, and patient safety, you are designing a standardized collaboration protocol for your multidisciplinary team.

Please describe:

### 1. Collaboration Protocol (Moderate Complexity)

- What is the most effective method for specialists to communicate their input in moderate-complexity cases?
- Should discussions follow a structured round-robin, simultaneous opinion sharing, or a different format?
- How can the process ensure inclusion, efficiency, and clarity in planning?

### 2. Consensus Building

- When there is disagreement, how should the team reach a consensus?
- Evaluate the merits and drawbacks of majority voting, weighted voting (based on domain relevance), or the lead surgeon making the final decision after discussion.

### 3. High-Complexity Interdisciplinary Case Teams (ICT)

- What additional collaboration structures are needed for high-stakes cases (e.g., multi-visceral surgeries, ICU patients, ECMO)?
- Should each team produce formal reports?
- Should cross-team access to discussions and decision logs be allowed?
- How should rapid-response or floating decision teams (FRDT) integrate into this setup?

### 4. Innovative or Additional Measures

- Suggest any extra protocols, tools, or safeguards (e.g., dashboards, communication coaches, simulations) that could enhance collaboration, information flow, and decision-making under time or risk pressure.

Your response should reflect best practices in surgical leadership, interdisciplinary collaboration, and risk mitigation. Include reasoning behind your chosen approach.

# 1 Collaboration Protocol for Moderate-Complexity Cases

Step	What Happens	Why it Works
1. Silent Pre-Round Input	Each invited specialist submits a short SBAR-style note or 2-min voice clip <i>before</i> the meeting.	Prevents anchoring; gives quieter voices equal footing.
2. Structured Round-Robin	Moderator calls on each discipline in fixed order: diagnostics → subspecialties → peri-op → rehab/social work → nursing. No interruptions.	Ensures every domain is heard; keeps meeting < 30 min.
3. Open Discussion	Free exchange of clarifying questions, risk–benefit weighing, contingency planning.	Builds a shared mental model.
4. Summarize & Document	Moderator reads back the agreed problem list, plan, and task owners; note auto-pushes to the EMR.	Creates an auditable trail; stops “I thought you were doing that” errors.

**Why not unstructured sharing?** Unstructured rounds invite dominance bias and often balloon to 45 min; the format above protects time without sacrificing input quality.

## 2 Consensus-Building Method

### Delphi-Lite to Single-Point Decision

1. If a single plan is obvious after discussion, document it and proceed.
2. Otherwise run one private Delphi vote (chat/poll). Reveal results simultaneously; allow a *2-min* re-discussion of outliers only.
3. The lead surgeon then issues the final decision, recording the rationale (including minority views) and assuming accountability.

**Why not pure voting?** Majority or weighted voting can silence the one dissenting voice that spots a catastrophic risk. The hybrid captures group wisdom yet keeps responsibility clear.

### 3 High-Complexity / ICT Cases

Element	Recommendation
Formal reports	Each subspecialty produces a concise ( $\leq 1$ page) “Consult Conclusion” covering: problem, key data, risk matrix, preferred and fallback plans.
Cross-team communication	Mandatory joint case conference (virtual or in-person) with shared PACS view, whiteboard, and decision log.
Knowledge access (FRDT)	Provide full read-only access to all previous notes, chat threads, and imaging.
24-h Red-Team review	For ultra-high-risk cases, schedule an independent senior reviewer to audit the plan.
After-action debrief	Ten-minute debrief within 48 h; feed lessons into protocol updates.

### 4 Extra Ideas That Boost Collaboration

- **Shared visual dashboard:** live vitals, labs, imaging, and task ownership.
- **Psychological-safety check-in:** ask “Does anyone have concerns we haven’t voiced?” before sign-off.
- **Communication coach:** rotate a trained nurse/fellow to monitor closed-loop communication.
- **Simulation for new pathways:** tabletop drills when a novel device or protocol is introduced.

### Bottom Line

- *Moderate-complexity:* Structured round-robin with silent pre-input; quick Delphi pulse if needed; lead surgeon signs off.
- *Consensus:* Lead surgeon decides after documented multidisciplinary input; minority opinions recorded.
- *High-complexity:* Formal subspecialty reports + joint conference, full transparency for rapid-response teams, and an after-action loop.