**Journal Club Faculty Teaching Template**

**Instructor Notes**

**PICO Summaries**

**Article 1: [Citation]**

* **P (Population):** [Describe study population, sample size, key inclusion criteria]
* **I (Intervention):** [Primary intervention being studied]
* **C (Comparison):** [Control or comparison group]
* **O (Outcomes):** [Primary and secondary outcomes measured]
* **T (Time):** [Follow-up periods/measurement timepoints]

**Bottom line:** [1-2 sentence summary of main finding]

**Article 2: [Citation]**

* **P (Population):**
* **I (Intervention):**
* **C (Comparison):**
* **O (Outcomes):**
* **T (Time):**

**Bottom line:**

**Article 3: [Citation]**

* **P (Population):**
* **I (Intervention):**
* **C (Comparison):**
* **O (Outcomes):**
* **T (Time):**

**Bottom line:**

**ESSENTIAL QUESTIONS FOR CRITICAL APPRAISAL**

**1. Are the results valid? (Internal Validity)**

* **Randomization adequate:** [Yes/No - explain method]
* **Allocation concealed:** [Yes/No - how was it done?]
* **Blinding:** [Who was blinded? Who wasn't? Why?]
* **Baseline characteristics:** [Were groups balanced?]
* **ITT analysis:** [Was intention-to-treat used?]
* **Crossovers/missing data:** [% crossover, loss to follow-up, sensitivity analyses]

**2. What were the results? (Magnitude & Precision)**

* **Primary outcome:** [Effect size with 95% CI]
* **Secondary outcomes:** [Key secondary findings]
* **Clinical significance:** [Are differences clinically meaningful?]
* **Harms/adverse events:** [Safety profile comparison]
* **Time-course:** [When do effects appear/disappear?]

**3. Will these results help my patients? (Applicability)**

* **Population match:** [How similar is study population to your patients?]
* **Patient-centered outcomes:** [Are outcomes meaningful to patients?]
* **Practice barriers:** [What might prevent implementation?]
* **Local context:** [How does this fit with local protocols/resources?]

**Teaching Take-Homes for Residents**

1. **Key finding #1:** [Main clinical message]
2. **Key finding #2:** [Secondary important point]
3. **Key finding #3:** [Practice-changing aspect or limitation]
4. **Critical appraisal skill:** [Statistical/methodological concept to emphasize]

**Detailed Findings Section**

**[Topic Area 1 - e.g., Primary Outcome]**

* **Main finding:** [Detailed description]
* **Effect size:** [Include actual numbers, percentages, ratios]
* **Statistical significance:** [p-values, CIs]
* **Clinical interpretation:** [What this means for practice]

**[Topic Area 2 - e.g., Unexpected Finding]**

* **What was found:**
* **Possible explanations:**
  1. [Mechanism/reason #1]
  2. [Mechanism/reason #2]
  3. [Mechanism/reason #3]
* **Authors' interpretation:** [Quote or paraphrase]
* **Your assessment:** [Agreement/disagreement with authors]

**Key Quote:** *"[Important quote from paper that captures main message]"*

**Teaching pearl:** [Concise take-home message about this finding for residents]

**Study Comparison Table**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Study | Clinical Question | Study Methods | Patient Population | Results | Conclusions | Key Statistical Method to Teach |
| [Study 1] | [What question does it answer?] | [Design, randomization, blinding] | [n=, key characteristics] | [Main findings with statistics] | [Clinical bottom line] | [e.g., Cox regression, mixed models] |
| [Study 2] |  |  |  |  |  |  |
| [Study 3] |  |  |  |  |  |  |

**Statistical Concepts Teaching Section**

**[Statistical Method 1 - e.g., Hazard Ratio]**

* **Definition:** [Plain language explanation]
* **When used:** [Clinical scenarios]
* **Interpretation:**
  + Value = 1 → [meaning]
  + Value < 1 → [meaning]
  + Value > 1 → [meaning]
* **Analogy:** [Relatable comparison for residents]
* **Clinical example from studies:** [How it applies to reviewed papers]

**[Statistical Method 2 - e.g., Forest Plot]**

* **What it shows:** [Visual representation of...]
* **Components:**
  + Dot/box = [meaning]
  + Horizontal line = [meaning]
  + Vertical reference line = [meaning]
* **How to read it:** [Step-by-step interpretation]
* **Clinical significance:** [What patterns tell us about treatment effects]
* **Teaching analogy:** [Memory aid for residents]

**[Statistical Method 3]**

* **Definition:**
* **Clinical use:**
* **Interpretation guide:**
* **Common pitfalls:**

**Visual Teaching Aids**

**Forest Plot Interpretation Guide**

**Include if relevant to papers:**

* Overall effect estimate: [HR/OR/RR with CI]
* Subgroup analyses findings: [Any differential effects?]
* Key message: [What the visual tells us]

**Key Ratios Comparison**

| **Metric** | **What it Compares** | **When Used** | **Interpretation** | **Clinical Example** |
| --- | --- | --- | --- | --- |
| [Ratio type] |  |  | = 1 means... |  |
|  |  |  | < 1 means... |  |
|  |  |  | > 1 means... |  |

**Study Population Details (if needed for context)**

**Setting & Design**

* **Study type:** [RCT, cohort, case-control, etc.]
* **Centers:** [Single/multicenter, locations]
* **Timeframe:** [Study period]

**Inclusion Criteria**

* [Criterion 1]
* [Criterion 2]
* [Criterion 3]

**Exclusion Criteria**

* [Criterion 1]
* [Criterion 2]
* [Criterion 3]

**Baseline Characteristics**

* **Sample size:** [n= for each arm]
* **Demographics:** [Age, sex, relevant characteristics]
* **Key clinical features:** [Disease severity, comorbidities]
* **Follow-up:** [Duration, completion rate]

**Discussion Points for Residents**

**Critical Thinking Questions**

1. How would you apply these findings to [specific clinical scenario]?
2. What are the limitations that affect generalizability?
3. What further studies would you design to address remaining questions?
4. How do these results compare to current guidelines/practice?

**Clinical Context**

* **Current practice standard:** [What do we do now?]
* **How these studies change (or don't change) practice:**
* **Patient counseling implications:** [What to tell patients]
* **Cost/resource considerations:**

**Take-Home Messages (Elevator Pitch)**

*If a resident had 30 seconds to explain these studies to an attending, they should say:*

"[2-3 sentence summary capturing the essence of all papers and their clinical implications]"

**Notes Section**

[Space for additional teaching points, resident questions, or topics that arose during discussion]

**References**

1. [Full citation for Article 1]
2. [Full citation for Article 2]
3. [Full citation for Article 3]
4. [Additional relevant references/guidelines]