

[Title]

Journal Club – [Date]

Goals of Journal Club

- ❑ Practice reading research articles via a systematic approach
- ❑ Recognize strengths and weaknesses of research designs
- ❑ Recognize forms of bias within scientific inquiries
- ❑ Review statistical terms and their clinical application
- ❑ Apply research to clinical practice

How It Works

1:

Read the journal article before didactics.

2:

Choose a popsicle stick.

3:

Answer discussion questions as your popsicle stick color is called.

4:

Answer ABFM National Journal Club questions for KSA credit (recommended)



Let's get
STARTED



White

1. INTRODUCTION

Read the title aloud.

Name the author.

Name the institution(s).

How was the study funded?

Are there conflicts of interest?

A large, light pink starburst or splash graphic with multiple points and rounded edges, serving as a background for the word 'Salmon'.

Salmon

2. PRIMARY QUESTION

What is the question this study was designed to answer?

Were there any other clinical questions they were curious about?

Why is this important?



Gold

3. DESIGN

What is the design of the study?
Was it blinded?

Review

[Experimental Design]

[include visual representation of design here]

Examples of Experimental Designs:

- Randomized control trial
- Systematic review
- Meta-analysis
- Network meta-analysis
- Cohort Study
- Case-Controlled Study
- Cross-Sectional Study
- Case Report

[Explanation of experimental design]

Pros:

- [advantage]
- [advantage]

Cons:

- [disadvantage]
- [disadvantage]

[include reference link]

A large, dark green, irregular splat shape with several rounded, bulbous protrusions of varying sizes extending from its edges. The word "Green" is written in white cursive script across the center of the splat.

Green

**TRUTH
OR
DARE**

A large, orange, starburst-shaped graphic with multiple points and a soft, glowing effect. The word "Orange" is written in a white, cursive script font across the center of the starburst.

Orange

4. SUBJECTS

Who was in the study?

Who was included or excluded?

How many subjects were there?

How many excluded?

Does the selection of subjects suggest that the results will be generalizable to other patients?

A large, irregular teal splash graphic with multiple rounded, pointed edges, resembling a paint splatter or a stylized starburst. The word "Teal" is written in a white, cursive script font across the center of the splash.

Teal

5. INDEPENDENT VARIABLES

What treatment/experimental groups were there?



Grey

6. OUTCOME VARIABLES / DEPENDENT VARIABLES

What was the study designed to measure?
What outcomes were they looking for?

What are the clinically significant phenomena the investigators are trying to predict/prevent/treat (ie presence/absence of disease, measure of symptom burden, survival time)? Are these disease-oriented or patient-oriented?

How are these variables measured? What units did they use to measure? (ie subjective scale, clinician judging clinical improvement, objective criteria)

A large, irregular blue shape resembling a paint splat or ink blot, with several pointed edges and a central area where the word 'Blue' is written.

Blue

**TRUTH
OR
DARE**



Black

7. RESULTS

What were the results/outcomes?

Were they statistically significant?

What tables/graphs did they use to demonstrate results?

What statistics did they use to analyze data?

Review

[statistics concept]

[description/explanation]

Benefits:

– [list of advantages, use]

Examples of statistics concepts:

- Odds ratio
- Intention to treat
- Specificity
- Sensitivity
- Confidence intervals
- Statistical significance

[explanation of how this statistics principle applies to the chosen journal article]

and/or

[visual representation]

[reference]



Lilac

8. CONCLUSIONS

What do the authors think the results mean?

How did they interpret the results?



Brown

9. VALIDITY

Identify any biases or flaws.
How significant are they?

Are the results statistically
significant?

Are the results clinically
significant?

Types of Bias

Selection Bias	Classification Bias	Confounding Bias	Lead Time Bias	Publication Bias	Recall Bias
<p>the study population does not reflect a representative sample of the target population</p> <p>external validity is questionable</p> <p>Minimized by proper randomization</p>	<p>results from improper, inadequate, or ambiguous recording of individual factors—either exposure or outcome variables</p> <p>blinding prevents differential classification bias</p> <p>Major risk in observational studies</p>	<p>spurious association made between the outcome and a factor that is not itself causally related to the outcome, and occurs if the factor is associated with a range of other characteristics that do increase the outcome risk</p>	<p>related to a study assessing the impact of a screening test on survival</p>	<p>studies with significant results are more easily published than those with negative (ie, nonsignificant) findings</p>	<p>increased likelihood that those with the outcome will recall and report exposures compared to those without the outcome</p>

A bright yellow, multi-pointed starburst or splash shape with irregular, rounded edges, resembling a paint splatter or a stylized sun. It is centered on the left side of the image.

Yellow

**TRUTH
OR
DARE**

A large, purple, starburst-shaped graphic with multiple points and a soft, painterly texture. The word "Purple" is written in a white, cursive script font across the center of the starburst.

Purple

10. SUMMARY

Summarize the study question and significance in 2 sentences.



Red

11. CLINICAL RELEVANCE

Does this study change your clinical practice?

Did you learn anything new?

Can you extrapolate the findings to our patients at Firelands Health or Family Health Services?



Tan

12. THINKING FORWARD

What studies might follow this?

What clinical questions remain?

A large, vibrant pink starburst or splash shape with multiple pointed edges, serving as a background for the word 'Pink'.

Pink

**ABFM Questions
OR
DARE**



ABFM NATIONAL JOURNAL CLUB

Question 1 of 4

Q: [insert ABFM question #1]

A:

B:

C:

D:

Question 2 of 4

Q: [insert ABFM question #2]

A:

B:

C:

D:

Question 3 of 4

Q: [insert ABFM question #3]

A:

B:

C:

D:

Question 4 of 4

Q: [insert ABFM question #4]

A:

B:

C:

D:
