

# Integration of Audience Response System in the Radiology Residents' Conferences

Achint K Singh, Ruchi Tiwari, Zachary Fulton

University of Texas Health San Antonio

ACR  
2018

# Disclosure

- Authors have no disclosure

# Purpose

- The objective of this exhibit is to educate audience about the audience response system (ARS) and its usefulness into the radiology residents' conferences

# Introduction

## What is it

Audience response system (ARS) is a unique program where the audience participates in the conference by selecting their answers

## Advantages

Interactive

Instant Feedback

Increased effectiveness of the conference

Off-site (not in the lecture hall) residents can also participate

## How can we do it?

### Software programs

- Poll everywhere
- Turning point
- Google forms
- Etc..

# How is it done?

Make knowledge-based relevant questions in the program



Create 4 or 5 answer choices



Program gives a unique link to answer



Integrate the questions into the lecture



Residents select answer choices by polling online

## **How did we measure the effectiveness?**

The authors have been using integrated ARS in the radiology conferences for about 3 years

The surveys were done to check the effectiveness of ARS. A total of 6 surveys were sent to the residents after 6 random conferences (3 without and 3 with ARS)

# Survey Questions after each conference

How would you rate this conference on a scale of 1 to 10?

How many new knowledge pearls you learned today?

How long was your attention span during the conference?

# Questions on Final Survey

Do you think conferences with ARS are better than traditional conferences?

Do you think the conferences with ARS are more interactive than traditional conferences?

Do you think you were more attentive in the conferences with ARS versus traditional conferences?

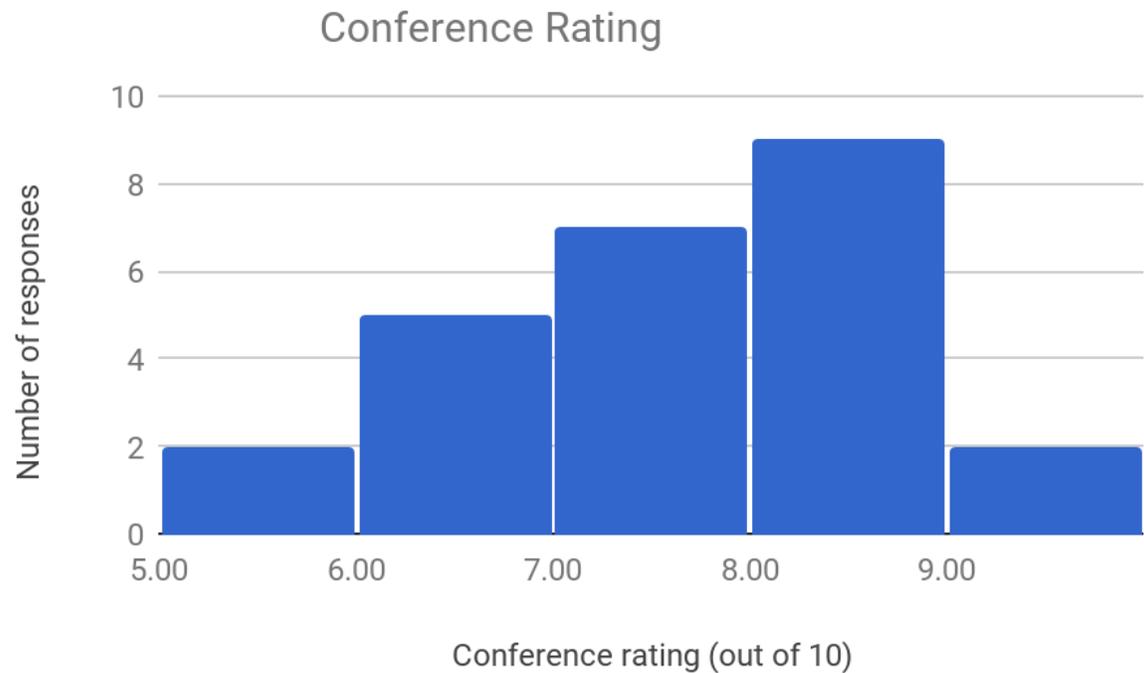
Do you think you learn more from conferences with ARS vs traditional conferences?

What is the best part about conferences with ARS?

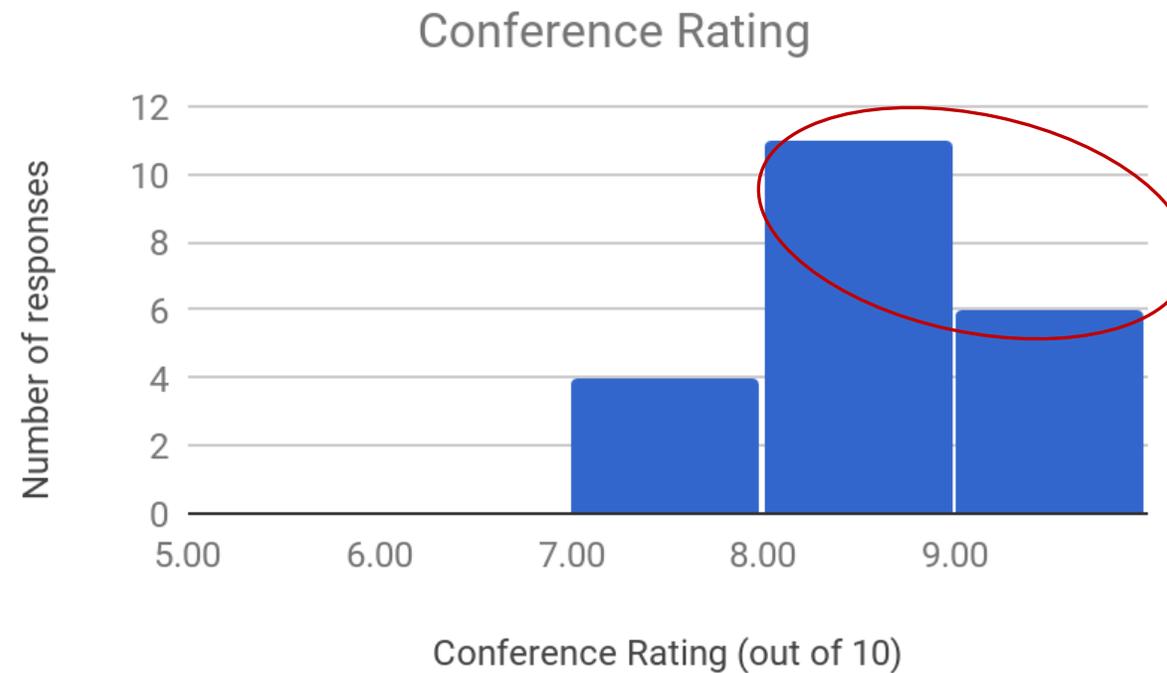
What percentage of current conferences should be replaced by conferences with ARS?

# Results: Head to Head Comparison

## Traditional Conference



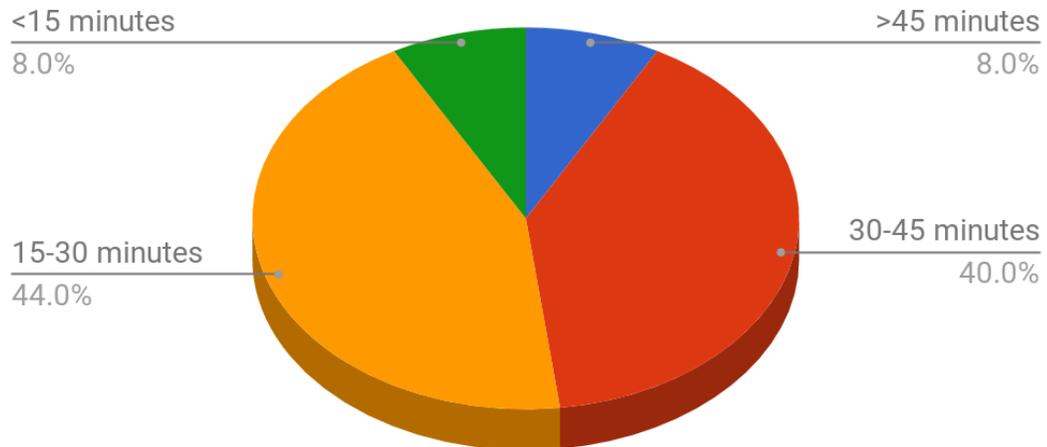
## ARS Conference



# Results: Head to Head Comparison

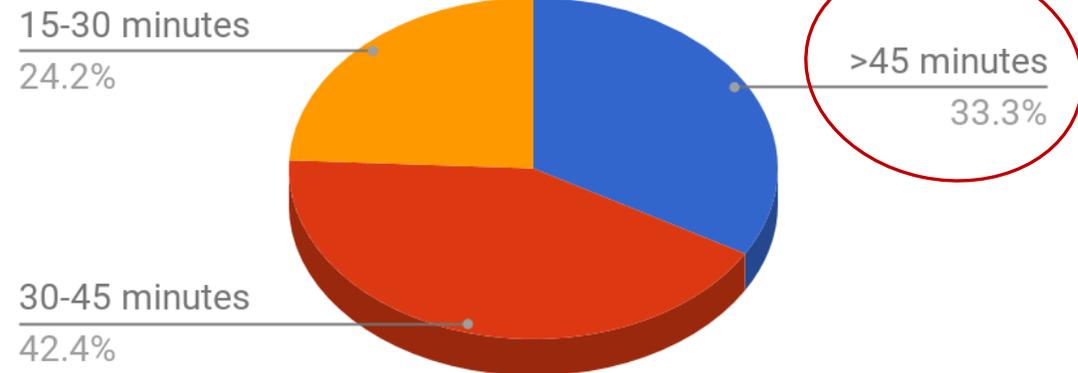
## Traditional Conference

How long was your attention span during the conference?



## ARS Conference

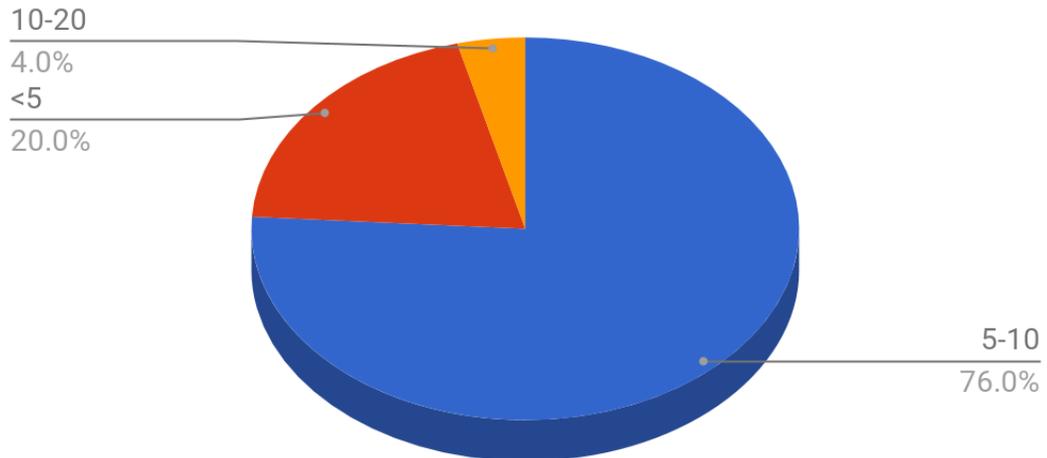
How long was your attention span during the conference?



# Results: Head to Head Comparison

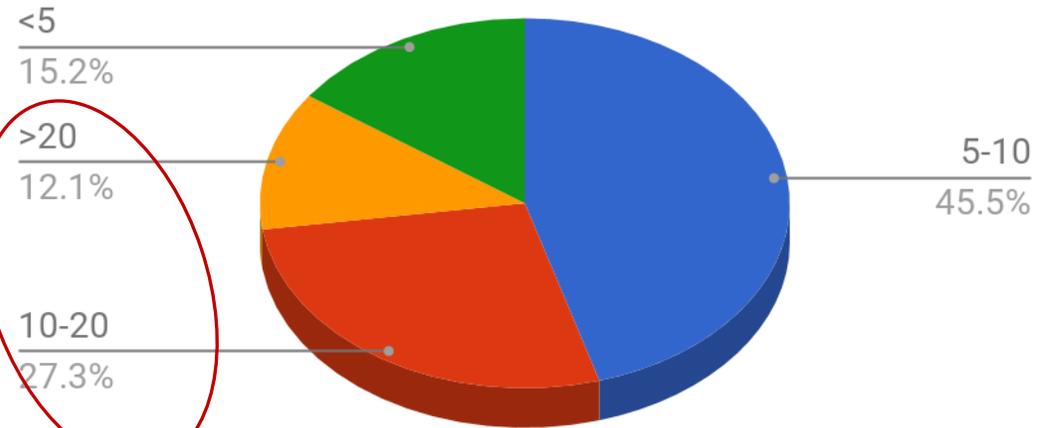
## Traditional Conference

How many new knowledge pearls you learned today?



## ARS Conference

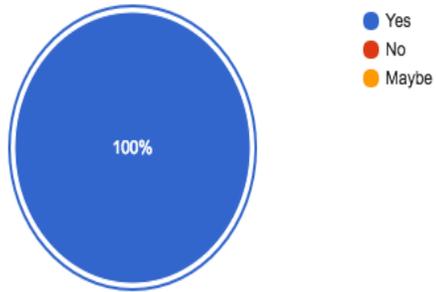
How many new knowledge pearls you learned today?



# Result of Final Survey

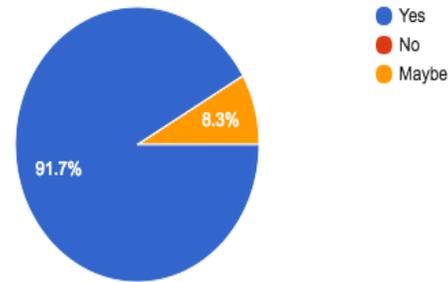
Do you think conferences with ARS are better than traditional conferences?

24 responses



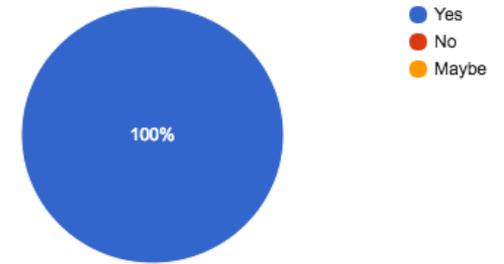
Do you think the conferences with ARS are more interactive than traditional conferences?

24 responses



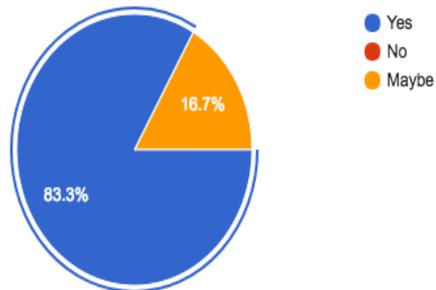
Do you think you were more attentive in the conferences with ARS versus traditional conferences?

24 responses



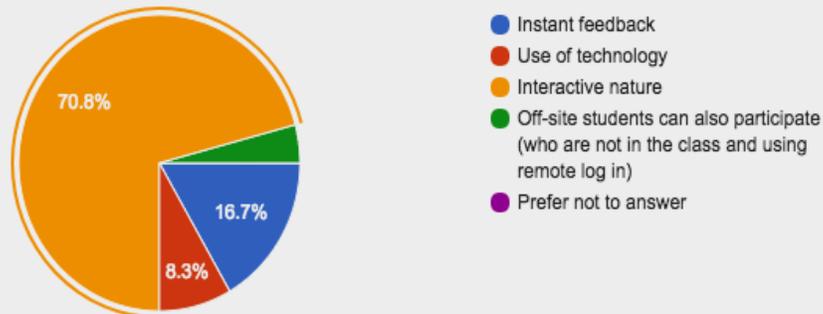
Do you think you learn more from conferences with ARS vs traditional conferences?

24 responses



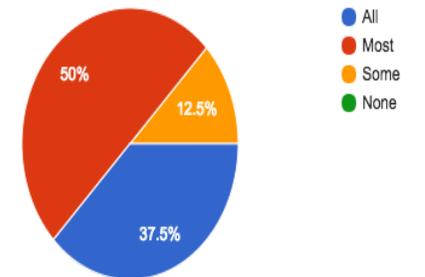
What is the best part about conferences with ARS?

24 responses



What percentage of current conferences should be replaced by conferences with ARS?

24 responses



# Results Summary

The average rating was higher (8.78) for the conferences with ARS (audience response system) vs conferences without ARS (7.16).

Student t-test showed that there is a statistically significant difference (p-value <0.05) between the mean of these 2 groups.

The attention span was >45 minutes in 33% of residents during the conferences with ARS versus 8% during the conferences without ARS.

- This clearly shows that the ARS is better as it is more interactive and the audience stay focused longer than the traditional conferences.

Residents learned more from conferences with ARS with 39% learned >10 new knowledge pearls from the ARS conferences versus 4% from the traditional conferences.

## Conclusion

The integration of ARS has been very successful in the conferences as shown by the residents' feedback.

This is mainly due to interactive nature of the conferences with active participation and instant feedback.

We highly recommend integrating ARS into the radiology conferences.