## The Art of Scientific Presentation

Waddah A. Alrefai, MD







## How to give an awful talk

- Make busy, confusing, and unclear slides
- Make sure you put the audience to sleep
- Make sure the audience can't see your face
- Speak softly that the audience can't hear you
- Speak in a monotonous tone

Why do speakers give bad talks?

#### They misunderstand what a talk is!

- Needs to be interesting and entertaining
- It is a presentation and a performance
- It is not reading of a journal article

From a written paper to a lecture						
	Eight-page journal paper	15-minute scientific talk	Compression ratio			
Number of printed words	~4500	500 max (50 words per slide)	9/1			
Speed required for comprehension	Reading: ~240 words/min	Speaking: ~120 words/min	2/1			

Reading a paper vs attending a lectur						
	Reading a paper	Attending a lecture				
Selection of content	Reader	Presenter				
Control over time	Reader	Presenter				
Control over environment (light, audio)	Reader	Presenter				
Control over information flow and sequence	Reader	Presenter				

## The responsibility of the speaker





### **Good** and **not so good** speakers



#### Important perspectives for a successful presentation

Slides Clear to read and follow

#### Structure Organization-transition-emphasis

#### Speech Know your audience-convey necessary information

<u>Delivery</u>
 Speaker shows energy-appropriate speed to engage the audience





## What font to use?

• s Not	ans Serif fonts Arial Helvetica Comic Sans	e e e	р р Р	r r r	
• S	Serif fonts Times New Roman Courier Didot	e e e	р р	r r r	





## Color and background themes are important

- Simplest background
- High contrast between the letters and the background
- Dark letters against a light background

# Bright letters against a dark background

This is not good This is not good

## Background colors

Dark blue or black background works best to project colorful images







#### Wordy slide is a weak slide

If you have two much words in the slide, the audience will make a huge effort to read the text on the slide. In this case, the audience will not pay attention to what you are saying and you will eventually lose the audience. This will cause you to lose your focus and then your presentation falls apart.



















## Structure of the presentation

# Basic structure for a scientific presentation

- Background
- Hypothesis
- Methods
- Data/discussion
- Speculation/significance

# Short presentation-straightforward message

- ~ 15 -18 slides for 10 minutes presentation
- Slides for short presentation
  - > Background: 3-4 slides
  - > Hypothesis: 1 slide
  - > Aims: 1 slide
  - > Methods: 1 slide
  - Data: 5-8 slides
  - > Summary: 1 slide
  - > Conclusion/speculation: 1 slide
  - Significance: 1 slide



- Build the content progressively
- Present a story
- Make a smooth transition between slides
- Don't drown the audience with data









## Spoon feeding strategy









# Speech & delivery

### How to give effective speech

Target the audience

 1-Will the audience understand these points?
 2-Will the audience be interested in these points?

- Add flavors to your speech analogies, examples, stories
- Speak to the audience, do not read the slides

## **Responsibilities of the speaker**

- The oral channel is for emphasis and reinforcing the visual channels to make the work:
  - Easier to understand
  - More memorable
  - More convincing & interesting
- Project an authoritative image
- Show your expertise

#### **Common errors in a speech**

- Fast-talking
- Fast-pacing
- Lack of eye contact
- Not prepared for Qs & As



## **Final words**

- Know the expectations of your audience
- Use PowerPoint effectively
- Present a story
- Divide the presentation into episodes
- Carefully choose your opening and closing slides
- Practice, practice and practice



