Presenting Your Data: How to Make a Great Slideshow?

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The Secrets of Giving a Memorable Talk

The answer is

I don’t know...
...The Bad News

• All young scientists experience strong anxiety when they present for the 1st time
• Scientific meetings are becoming much ‘younger’
...The Good News

- All young scientists experience strong anxiety when they first present
- Next time it will be easier
  - Scientific meetings are becoming much 'younger'
- That is how we learn. Practice makes it perfect
How *not* to Give a Scientific Talk

- Violate the three cardinal rules
  - Exceed the allotted time
  - Never practice beforehand
  - Never be prepared for a total failure of modern technology
Venial Sins...

- Wear clothing that distracts from your science
- Wear clothing that doesn’t permit easily attaching a portable microphone
Mannerism

- Continuously wander around the room
- Jingle change in your pocket
- Overdo the use of hand gestures
- Act nervous and confused
- Never make an eye contact
- Face screen and read
- Continuously wave your pointer on the screen
Level of Talk

- Make the talk either too technical or too simple
A person can have the greatest idea in the world.

But if that person can’t convince enough other people, it doesn’t matter.

Gregory Berns
Simplicity is the ultimate sophistication...
If information is presented orally, people remember about 10% of the content 72 hours later. That figure goes up to 65% if you add a picture.
**Display**
13.3 inch LED-backlit glossy widescreen display
- Support for millions of colors
- Supported resolutions:
  - 1280 by 800 (native)
  - 1024 by 768 (pixels)
  - 4:3 (aspect ratio)

**Size & Weight**
- Height: 0.16 – 0.76 inch (0.4-1.94 cm)
- Width: 12.8 inches (32.5 cm)
- Depth: 0.94 inches (2.4 cm)
- Weight: 3.0 pounds (1.36 kg)

**Storage**
- 120 GB hard disk drive
- or
- 128 GB solid-state drive

**Battery Power**
- Integrated 37-Watt-hour Lithium-polymer
- 45W MagSafe Power Adapter
- MagSafe power port
- 4.5 hours of wireless productivity

**Processor & Memory**
- 1.6Ghz processor
- 6MB shared L2 cache
- 1066 MHz frontside bus
- 2GB of 1066 MHz DDR 3 SDRAM
10,000-hour Rule
The Story of The Beatles

• Came to the US on February 1964 starting British invasion of the American music scene
• Had been invited to perform in a strip club in Hamburg in 1960
• While in Hamburg, they played 8/24 for the entire week as compared 1-h sessions in Liverpool
  – By 1964, they had performed live almost 1200 times
If you Born Poor
it's not Your Mistake,
But if you Die Poor
it's Your Mistake

-Bill Gates
Bill Gates’ Story

• Born to wealthy family
• Sent to a private school in 7th grade in 1967
• The 2nd year in the school, a computer club is established and Gates started to live in there!
  – Started real-time programming as an 8th grader
Designing Effective PowerPoint Presentation

Big
Consistent
Clear
Progressive
Simple
Summary
Make It Big
Make it Big (Text)

• This is Arial 12
• This is Arial 18
• This is Arial 24
• This is Arial 32
• This is Arial 36
• This is Arial 44
Make It Big (How to Estimate)

- Look at it from 2 meters away.
Keep It Simple
Keep It Simple (Text)

- **Too many colours**
- **Too Many Fonts and Styles**
- The 6 x 7 rule
  - No more than 6 lines per slide
  - No more than 7 words per line
How can You Evaluate a Slide Prepared to Diagnose Infection and Gram Stained?

- When you evaluate a Gram-stained slide, you cannot see any microorganisms if the concentration of the bacteria in the fluid which you are examining below $10^4$ cfu unless this fluid is centrifuged before preparing the slide.
- SWABS FROM THE SKIN LESIONS OR ANY DRAINING LESIONS USUALLY ARE NOT VALUABLE AND MISLEADING; THUS THEY SHOULD NOT BE USED IN ANY CASE.
- One should always use deep-tissue aspirates not draining sinus whenever possible. If you get a positive culture from a swab, you may almost always consider it as a *colonizer*. 

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Hints for Gram Stain

- Concentrations $<10^4$ cfu are invisible unless centrifuged

- Swabs usually are not valuable and misleading

- Always use deep-tissue aspirates not draining sinus cultures
### “ESKAPE” Pathogens

#### Clinical Outcomes: Mortality

<table>
<thead>
<tr>
<th></th>
<th>VRE</th>
<th>VSE</th>
<th>OR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bacteremia¹</td>
<td>n=683</td>
<td>n=931</td>
<td>2.52*</td>
</tr>
<tr>
<td></td>
<td>MRSA</td>
<td>MSSA</td>
<td></td>
</tr>
<tr>
<td>Bacteremia²</td>
<td>11.8% (n=382)</td>
<td>5.1% (n=433)</td>
<td>p&lt;0.001</td>
</tr>
<tr>
<td></td>
<td>KPN-ESBL+</td>
<td>KPN-ESBL-</td>
<td></td>
</tr>
<tr>
<td>Bacteremia³</td>
<td>52% (n=48)</td>
<td>29% (n=99)</td>
<td>p&lt;0.05</td>
</tr>
<tr>
<td></td>
<td>AB (IMP-R)</td>
<td>AB (IMP-S)</td>
<td></td>
</tr>
<tr>
<td>Bacteremia⁴</td>
<td>57.5% (n=40)</td>
<td>27.5% (n=40)</td>
<td>p=0.007</td>
</tr>
<tr>
<td></td>
<td>MDR-Pae</td>
<td>No-MDR-Pae</td>
<td></td>
</tr>
<tr>
<td>Bacteriemia⁵</td>
<td>21% (n=40)</td>
<td>12% (n=40)</td>
<td>p=0.08</td>
</tr>
<tr>
<td></td>
<td>EB (IMP-R)</td>
<td>EB (IMP-S)</td>
<td></td>
</tr>
<tr>
<td>Serious infections⁶</td>
<td>33% (n=33)</td>
<td>9% (n=33)</td>
<td>p=0.038</td>
</tr>
</tbody>
</table>

*95% CI, 1.9–3.4

**Key Terms**

- **VRE**: vancomycin-resistant enterococci
- **VSE**: vancomycin-susceptible enterococci
- **MRSA**: methicillin-resistant *S. aureus*
- **MSSA**: methicillin-susceptible *S. aureus*
- **KPN**: *K. pneumoniae*
- **ESBL**: extended-spectrum β-lactamase
- **AB**: *A. baumannii*
- **IMP**: imipenem
- **Pae**: *P. aeruginosa*
- **EB**: Enterobacter spp.

**References**

Comparative Mortality in Bacteremia with Resistant Pathogens

- S. aureus
- E. coli
- P. aeruginosa
- A. baumannii

Sensitive versus Resistant Pathogens

Diaz-Granados, et al. CID 2005;41:327
Aloush V, et al. AAC 2006;50:43
Keep It Simple (Picture)

- Art work may distract your audience
- Artistry does not substitute for content
Keep It Simple (Transition)

- This transition is annoying, not enhancing
- "Appear" and "Disappear" are better
Keep It Simple (Animation)

Too distracting!
Keep It Simple (Animation)

Simple & to the point

2 m
Make It Clear
Make It Clear (Capitalisation)

• ALL CAPITAL LETTERS ARE DIFFICULT TO READ

• Upper and lower case letters are easier
Use Contrast

These colors contrast

These colors don’t contrast

These colors don’t contrast

These colors contrast (harder to read?)

These colors contrast (harder to read?)
Make It Clear (Fonts)

Sanserif: clear
Serif: busy
Make It Clear (Fonts)

- Serif fonts are difficult to read on screen
- Sanserif fonts are clearer
- *Italics are difficult to read on screen*
- Normal or bold fonts are clearer
- *Underlines may signify hyperlinks*
- Instead, use **colours** to emphasise
Be Consistent
Be Consistent

• Differences draw attention

• Differences may imply importance

• Use surprises to attract not distract
Be Consistent

- Differences draw attention
- Differences may imply importance
- Use surprises to attract not distract

This tick draws attention
Be Consistent

- Differences draw attention
  - Differences may imply importance
  - Use surprises to attract not distract

These differences distract!
Be Consistent

- Differences draw attention
- Differences may imply **importance**
- Use surprises to attract not distract

This implies importance
Be Consistent

- Differences draw attention
- Differences may imply importance
- Use surprises to attract not distract

Confusing differences!
And...
When Presenting

• Speak loudly and clearly with fluctuation

• Maintain eye contact with your audience

• Ask questions of your audience

• Don’t read the slides word-for-word
When Answering Questions

- Repeat the question

- If you don’t know the answer then say ‘I don’t know’

- If the questioner disagrees, then defuse the situation

- Never insult questioner
In Summary

- Big
- Simple
- Clear
- Progressive
- Consistent
Yes, you can make it...
Good luck...
References

1. http://www.slideshare.net/satyajeet_02/how-to-make-effective-presentation