Promote Yourself and Your Research With a Dazzling Presentation

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Learning Objectives

- Understand basic components that should be included in oral presentation of original research findings to professional audience
- Learn key principles of effective slide design, including color, contrast, and balance
- Understand how to present information to maximize audience understanding
- Learn tips for taking questions from audience at professional meeting

Overview of this Presentation

- Know your audience
- Components of research talk
- Effective slide design
- Transitions
- Taking questions

Effective presentations
Components of Research Talk

"The research talk"

- Fairly similar to research article
 - Hook
 - Overview
 - Introduction
 - Methods
 - Results
 - Discussion
 - Summary
 - Acknowledgements
 - It varies but many talks are around 45 min

Example (imaginary) talk based on this paper Feladu et al. Contraception and Reproductive Medicine Intrps://doi.org/10.1186/940834-019-0091-3 Contraception and Reproductive Medicine RESEARCH Open Access Factors associated with long acting and permanent contraceptive methods use in Ethiopia Gedefaw Abeje Fekadu 1-2*, Akiryinka O. Omigbodun 3, Olumuyiwa A. Roberts 3 and Alemayehu Worku Yalew 4

Know Your Audience

- Before talk get as much information as possible about audience
- It will impact:
 - Type and amount of background you provide
 - Jargon and other language
 - Applications of research

The Hook

- Draw audience in to become interested in your presentation
- Tell a story
- Set the stage
- Ask a question of the audience
- State the problem in stark terms



Overview should be specific

- Introduction
- Methods
- Results
- Discussion
- Applications

- Background on Ethiopian priorities for LARCs and current level of use
- DHS data and time periods of study
- Time trend for LARC use and factors associate with use
- Challenges and next steps

Introduction Elements (1-2 slides for each)

- Why important
 - Consequences of unintended pregnancies in Ethiopia
- Context/ setting
 - Maps helpful for an international audience
- Problem
 - The government provides free LARC and permanent contraceptives but use is low
- Research question(s)/ objectives
 - Examine trends of long acting and permanent contraceptive methods use and identify factors associated with its use in Ethiopia

Methods Elements (1-2 slides each)

- Data set (information about DHS data)
- Sample (who was included/excluded)
- Variables (dependent & independent variables)
- Analytic approach

Results Elements

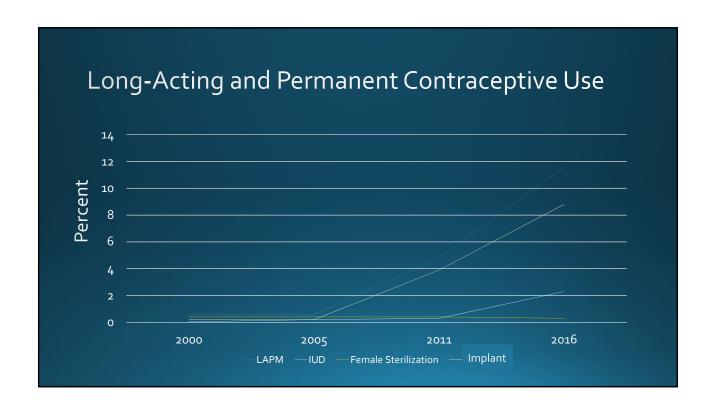
- Key results only
- Emphasize figures, tables, other visuals
- Where possible always choose a figure over a table

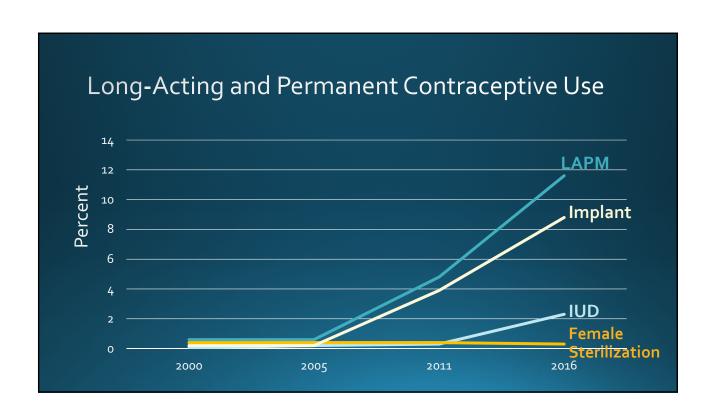
Way too much text

Table 3

Exposure to mass media and family planning messages among married or in union reproductiv age women in Ethiopia, 2016

Exposure variable	Number	Percent
Frequency of reading newspaper		
Not at all	8371	91.7
Less than once a week	552	6.0
At least once a week	205	2.2
Frequency of listening radio		
Not at all	6360	69.7
Less than once a week	1383	15.2
At least once a week	1384	15.2
Frequency of watching TV		
Not at all	6996	76.7
Less than once a week	1013	11.1
At least once a week	1117	12.2
Own mobile phone		
No	7192	78.8
Yes	1935	21.2
Use of internet		
Never	8911	97.6
Yes	216	2.3
Heard family planning message on radi	o on last few months	
No	7103	77.8
Yes	2024	22.2
Heard family planning messages on TV	on last few months	
No	7837	85.9
Yes	1290	14.1





Discussion Elements

- Interpretation (2-3 slides)
 - thoughts on WHY changes happened over time, WHY certain groups embraced different methods)
- Strengths/weaknesses
 - be specific and for weaknesses state how it may have impacted results; one slide each
- Applications of findings (1-2 slides)
 - for MDs, policy makers, etc
- Next steps (1-2 slides; be specific)

Summarize your main points at the end (1 slide)

- Do not put details in this part but be specific
- Put this in plain language
- Very important to help people "gel" information
- LARC and permanent contraception increasing in Ethiopia but low compared to national targets
- Odds of LARC and permanent methods higher in wealthier, sales workers, those who wanted more children
- Odds of use lower among women in female-headed households, women with history of abortion

Acknowledgements

- Research funding provided by XX
- Thank you to nurses for helping to collect data, XX
- Thank you to Dr. Smith

Slide Design Principles

Keep it simple

Avoid complete sentences. Only use key words.

Definition of Epidemiology

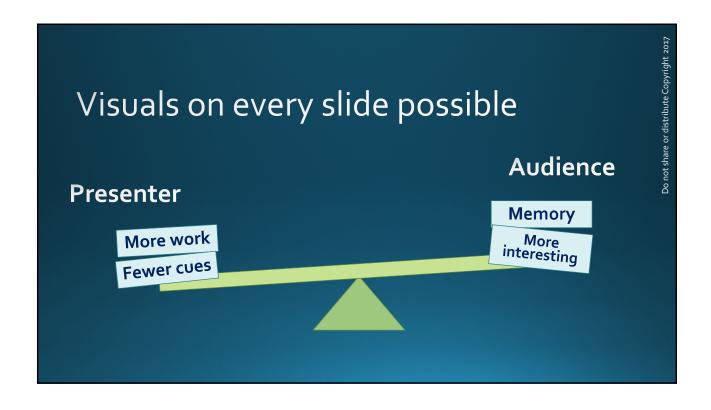


- Epidemiology is one of the cornerstones of public health and helps to guide policy decisions and evidencedbased medicine practice by identifying risk factors for disease and targets for preventative healthcare.
- Epidemiology is the study of the various factors influencing the occurrence, distribution, prevention, and control of disease, injury, and other health-related events in a defined human population.
- Epidemiologists provide input in study design, collection, analysis of data, interpretation, and dissemination of results.

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Effective slides with text

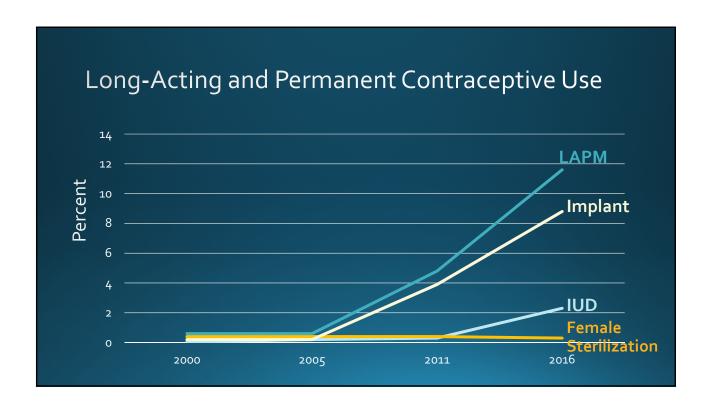
- No more than 5-6 bullets of text
- Do not write in complete sentences
- Keep text short
- Include a visual if possible

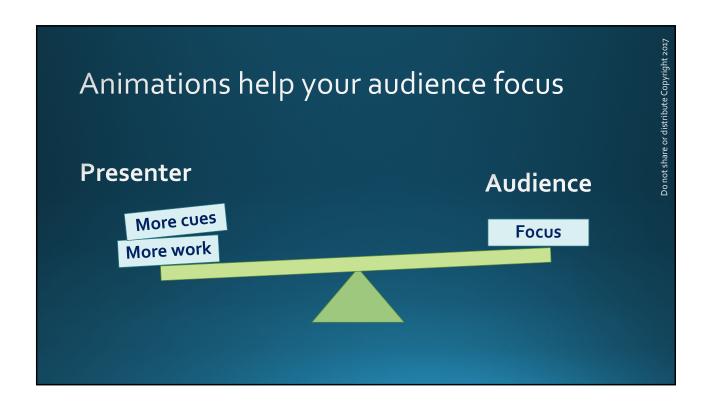


One message per slide



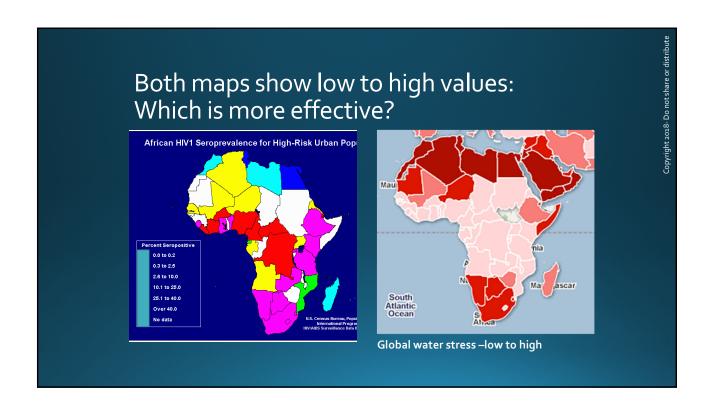
Walk people through a visual element Take time to help them get oriented

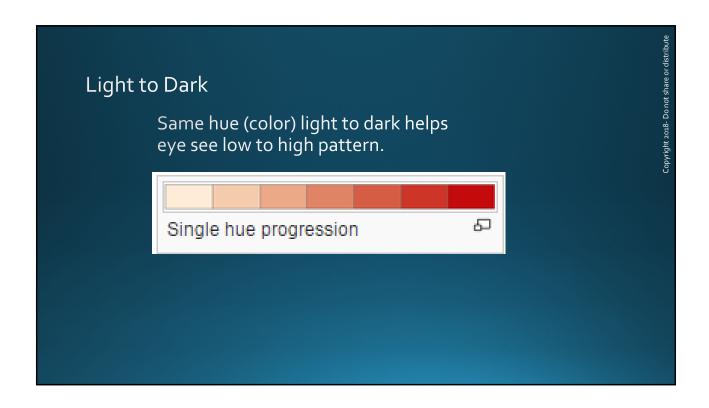




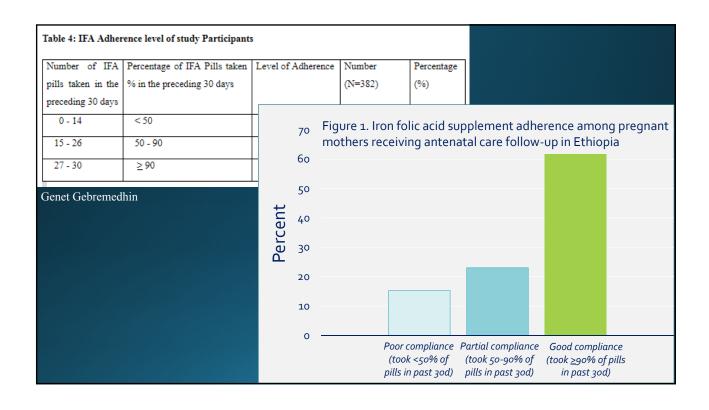


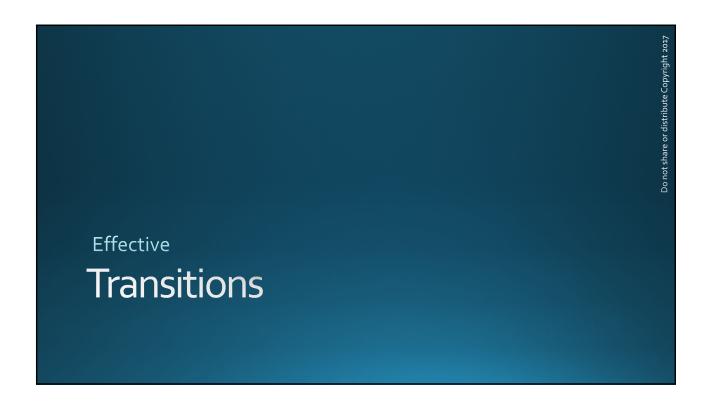












Transitions

- Move from one topic to the next
- Help improve flow of talk
- Transition slides
- Verbal transitions

Example Effective Transitions

Questions are important

- Let audience know if okay to stop you with questions or save till end
- Anticipate questions: write responses beforehand
- Repeat questions: so important!
- Thank person for asking question
- Practice saying IDK and I'll get back to you
 - "That is a great question- let me think a little more- can I follow up with you off line?"

EXTRA SLIDES

Where:

- β_0 = intercept
- β_1 = coefficient for time varying neighborhood exposure
- β₂= coefficient for time trend
- β_p = coefficients for time varying covariates
- α_i=Combined effect of all time-invariant influences on outcome
- e_{kit} = zero-mean stochastic error, varies over time within participant but not between them

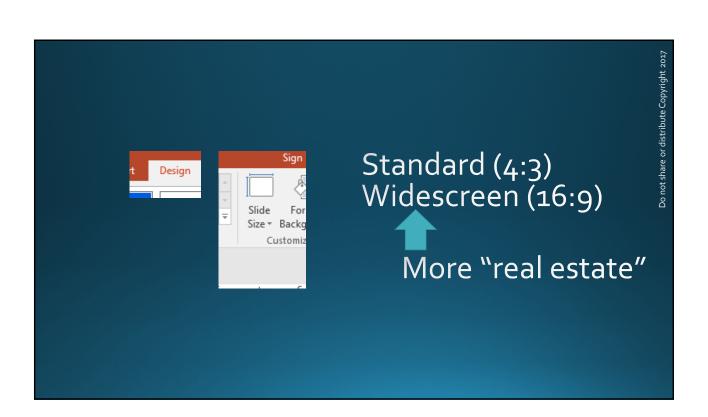
CAUSAL INFERENCE ISSUES

- Challenges of observational design?
- o"Sorting of people into neighborhoods"

Diez-Roux AV, Mair C. Neighborhoods and health. Ann. N.Y. Acad. Sci. 1186~(2010)~125-145 .

OUTCOME "SUBCLINICAL DISEASE"

- Coronary artery calcium measured with chest CT
 - Exam 1 all participants
 - Exam 2 half participants
 - Exam 3 other half
 - Exam 4 ~quarter participants
 - Exam 5 ~half participants (could have both 4 & 5)
 - Subsets ~equally distributed across sites (within each exam year)



Plan your talks

- Purpose?
- Audience?
- Style?
- Length?
- How much time for questions?
- What will your "hook" be?
- Choose a PPT theme
- Create an outline
- Make a schedule to allow you to practice