## What is a Cochrane Review and What is Meta-analysis

Tabriz University of Medical Sciences Standard Workshop on Systematic Reviews \_ October 2012 Dr. Shayesteh Jahanfar, University of British Columbia

# **Steps of a Cochrane review**

- STEP 1: Formulating the problem and register the title with Collaborative Review Group
- STEP 2: Write protocol, submit for peer review and publish on Cochrane Library
- STEP 3: Locating and selecting studies
- STEP 4: Critical appraisal of studies
- STEP 5: Collecting data
- STEP 6: Analysing and presenting results
- STEP 7: Interpreting results
- STEP 8: Improving and updating reviews





# Format of a Cochrane review

### Cochrane reviews have a standard format

- to help reviewers to be systematic when doing their review
- to help people reading the reviews to find information quickly





# **Characteristics of Cochrane reviews**

- look at the effects of healthcare interventions
- free of commercial funding
- published protocol
- rigorous and standardised methods
  - Cochrane Handbook for Systematic Reviews of Interventions
- consistent format
  - including a plain language summary and meta-analyses
- updated regularly

 a database of systematic reviews of accuracy of diagnostic and screening tests



# What is a meta-analysis?

### Optional part of a systematic review

Systematic reviews

Meta-analyses





# What is a meta-analysis?

- A statistical technique
- Estimates an 'average' or 'common' effect and expresses this quantitatively
- Improves the precision of an estimate by using all available data





# Meta-analysis is done when

- More than one study has estimated an outcome
- There are no differences in the study characteristics that are likely to substantially affect the outcome
- The outcome has been measured in similar ways
- The data are available (beware when only some data are available)



# Summary statistic for each study

- Calculates a single summary statistic to represent the effect found in each study
- For categorical data (yes, no)(alive, died)
  - Risk Ratio (Relative Risk)
  - Difference in risks (Risk Difference)
  - Ratio of odds (Odds ratio)
- Difference between means for continuous data





# **Weighting studies**

- More weight to the studies which give us more information
  - More participants
  - More events
  - Lower variance
- Weight is proportional to inverse variance





# **Displaying results graphically**

### Forest plots



Crowley P. Prophylactic corticosteroids for preterm birth (Cochrane Review) (1971)





# **Displaying results graphically**

### forest plots





'forest of lines'







testauras Britain



# Compression Stockings for preventing thrombosis in airline passengers

| Study  | Stockings<br>n/N                      | No stockings<br>n/N | Odds Ratio (Fixed)<br>95% Cl                                 | Weight<br>(%) | Odds Ratio (Fixed)<br>95% Cl |  |
|--|---------------------------------------|---------------------|--|---------------|------------------------------|--|
| LONFLIT 2  | 1/411                                 | 19/422              |  | 38.6          | 0.05 [0.01, 0.39]            |  |
| 🗙 LONFLIT 4 - Kendall 1                                    | 0/72                                  | 0/72                |  | 0.0           | Not estimable                |  |
| LONFLIT 4 - Kendall2                                       | 0/66                                  | 2/86                |  | 5.1           | 0.19 [ 0.01, 4.12 ]          |  |
| LONFLIT 4 - Scholl1  | 0/179                                 | 4/179               |  | 9.3           | 0.11 [0.01, 2.03]            |  |
| LONFLIT 4 - Scholl2  | 0/136                                 | 3/135               |  | 7.2           | 0.14 [0.01, 2.71]            |  |
| 🗙 LONFLIT 4 - Traveno1                                     | 0/97                                  | 0/98                |  | 0.0           | Not estimable                |  |
| 🗙 LONFLIT 4 - Traveno2                                     | 0/75                                  | 0/71                |  | 0.0           | Not estimable                |  |
| LONFLIT 5  | 2/178                                 | 7/180               |  | 14.2          | 0.28 [0.06, 1.37]            |  |
| Scurr 2001   | 0/100                                 | 12/100              |  | 25.6          | 0.04 [ 0.00, 0.60 ]          |  |
|  |                                       |                     |  |               |                              |  |
| Total (95%, CI)<br>Total events: 3 (Stockings              | ), 47 (No stockings)                  | 1323                | •  | 100.0         | 0.10 [0.04, 0.25 ]           |  |
| Test for heterogeneity chi-<br>Test for overall effect z=4 | square=2.81 df=5 p=0<br>.92 p<0.00001 | ).73 I⁼ =0.0%       |  |               |                              |  |
|  |                                       |                     | 0.001 0.01 0.1 1 10 100<br>Favours stockings Favours no stoc | 1000<br>kings |                              |  |



Review: Compression stockings for preventing deep vein thrombosis in airline passengers Comparison: 01 Wearing stockings versus not wearing stockings Outcome: 01 Symptomless deep vein thrombosis

### Label to tell you what the comparison is and the outcome of Interest

| Study  | Stockings<br>n/N   | No stockings<br>n/N  | Odds Ratio (Fixed)<br>95% Cl                                  | Weight<br>(%) | Odds Ratio (Fixed)<br>95% Cl |
|--|--|----------------------|---|---------------|------------------------------|
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| Total (95% CI)<br>Total events: 3 (Stockings)<br>Test for heterogeneity chi-s<br>Test for overall effect z=4.1 | 1314<br>, 47 (No stockings)<br>quare=2.81 df=5 p=0<br>92 p<0.00001 | 1323<br>.73 I² =0.0% | •   | 100.0         | 0.10 [0.04, 0.25 ]           |
|  |  |                      | 0.001 0.01 0.1 1 10 100<br>Favours stockings Favours no stock | 1000<br>ings  | -14                          |

At the bottom there's a horizontal line. This is the scale measuring the treatment effect. Here the outcome is DVT and towards the left the scale is less than one, meaning the treatment has made DVT less likely.

Take care to read what the labels say - things to the left do not always mean the treatment is better than the control.







The vertical line in the middle is where the treatment and control have the same effect there is no difference between the two





•Each study is given a blob, placed where the data measure the effect.

•The size of the blob is proportional to the % weight

•The horizontal line is called a confidence interval and is a measure of how we think the result of this study might vary with the play of chance.

•The wider the horizontal line is, the less confident we are of

Subtotal (95% CI) Test for heterogeneity chi-square=14.70 df=13 p=0.3265 Test for overall effect=-4.42 p=0.0000 The pooled analysis is given a diamond shape where the widest bit in the middle is located at the calculated best guess (point estimate), and the horizontal width is the confidence interval

### Note on interpretation

If the confidence interval crosses the line of no effect, this is equivalent to saying that we have found no statistically significant difference in the effects of the two interventions

### Larger blue dots indicate a higher weighting Longer lines indicate a wide confidence interval

| Study   | Stockings<br>n/N  | No stockings<br>n/N   | Odds Ratio (Fixed)<br>95% Cl                                | Weight<br>(%)  | Odds Ratio (Fixed)<br>95% Cl |  |
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#### Review: Compression stockings for preventing deep vein thrombosis in airline passengers Comparison: 01 Wearing stockings versus not wearing stockings Outcome: 01 Symptomless deep vein thrombosis

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|   |   |                       | 0.001 0.01 0.1 1 10 100<br>Favours stockings Favours no stoc | 1000<br>kings |                              |

The relative odds of symptomless DVT is reduced to 0.1 by wearing compression stockings on long flights

There is a 90% reduction in the odds of symptomless DVT wearing compression stockings on long flights



### How to find what you're looking for.....



### The Cochrane Library





# Searching

• Break your question down into concepts to create a searchable question

### ΡΙΟΟ

- Population
- Intervention
- Comparison
- Outcome









You have just read an article promoting hypnotherapy as a complementary alternative to drug therapy for quitting smoking.

You wonder, what is the evidence that hypnotherapy works?



# PICO

### Population = adult smoker

### Intervention = hypnosis OR hypnotherapy

### Comparison = no or any other treatment

### Outcome = cessation



More detail on this later



# **Searchable Question**

# What is the effectiveness of hypnosis/hypnotherapy on smoking cessation?



![](_page_25_Picture_3.jpeg)

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![](_page_26_Figure_1.jpeg)

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| Angelica izquierdo de Santiago, Manmood Khan   |   |   |  |
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![](_page_29_Picture_8.jpeg)

![](_page_29_Picture_9.jpeg)

| Abstract   | Jump to   | •        |
|--|---|----------|
| Background   |   |          |
| Hypnotherapy is widely promoted as a method for aiding smoking cessation. It is proposed to act on und desire to smoke or strengthen the will to stop.   | lerlying impulses to weaken t   | he       |
| Objectives   |   |          |
| To evaluate the efficacy of hypnotherapy for smoking cessation.  |   |          |
| Search methods   |   |          |
| We searched the Cochrane Tobacco Addiction Group Specialized Register and the databases MEDLINE<br>using the terms smoking cessation and hypnotherapy or hypnosis. Date of most recent searches July 20<br>restrictions.   | , EMBASE, AMED, SCI, SSCI<br>)10. There were no language                                      |          |
| Selection criteria   |   |          |
| We considered randomized controlled trials of hypnotherapy which reported smoking cessation rates at<br>beginning of treatment.  | least six months after the  |          |
| Data collection and analysis   |   |          |
| Three authors independently extracted data on participant characteristics, the type and duration of the hype control group, smoking status, method of randomization, and completeness of follow up. They also independent the included studies.  | pnotherapy, the nature of the<br>pendently assessed the qual                                  | ity of   |
| The main outcome measure was abstinence from smoking after at least six months follow up. We used<br>abstinence in each trial, and biochemically validated rates where available. Those lost to follow up were<br>summarised effects as risk ratios (RR). Where possible, we performed meta-analysis using a fixed-effer<br>adverse events reported. | the most rigorous definition of<br>considered to be smoking. W<br>ct model. We also noted any | of<br>/e |

Main results

 $\mathcal{D}$ 

# Thanks

![](_page_31_Picture_1.jpeg)

# LETS DO THIS TOGETHER NOW

![](_page_31_Picture_3.jpeg)

![](_page_31_Picture_4.jpeg)

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| There are 27 results out of 4655 records for: "hypno* in Title, Abstract or Keywords in The Cochrane Database of Systematic Revier View: 1-25   <u>26-27</u>  | ws" @ <u>Save Search</u><br>@ <u>Edit Search</u>                               |
| Export All Results       Restrict to: Reviews   Protocol         Hypnotherapy for smoking cessation       NC Abbot, LF Stead, AR White, J Barnes         Year: 1998       Record Comment         Record Comment       Image: Stead and                | ls Sort by: <u>Record Title</u>   <b>Match %</b>   <u>Year</u>                 |
| Complementary and alternative therapies for pain management in labour<br>CA Smith, CT Collins, AM Cyna, CA Crowther<br>Year: 2006   | 34   |

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|  | Hypnotherapy for smoking cessation<br>NC Abbot, LF Stead, AR White, J Barnes<br>Year: 1998<br>Record Comment | n  |                                  |   |   |                                |
|  | Hypnosis for schizophrenia<br>A Izquierdo de Santiago, M Khan<br>Year: 2004<br>Record                        |  |                                  |   |   |                                |
|  | Complementary and alternative ther<br>CA Smith, CT Collins, AM Cyna, CA Crow<br>Year: 2006                   | rapies for pain management in labour<br>ther   |                                  |   |   |                                |
|  |  |  |                                  |   |   | 35                             |

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#### [Review] Hypnotherany for smoking cessation

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Abstract

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- Description of studies
- Methodological quality

### [Review] Hypnotherapy for smoking cessation

NC Abbot, LF Stead, AR White, J Barnes

Cochrane Database of Systematic Reviews 2007 Issue 1 (Status: Commented) Copyright © 2007 The Cochrane Collaboration. Published by John Wiley & Sons, Ltd. DOI: 10.1002/14651858.CD001008 This version first published online: 27 April 1998 in Issue 2, 1998 Date of Most Recent Substantive Amendment: 18 February 1998

This record should be cited as: Abbot NC, Stead LF, White AR, Barnes J. Hypnotherapy for smoking cessation. Cochrane Database of Systematic Reviews 1998, Issue 2. Art. No.: CD001008. DOI: 10.1002/14651858.CD001008.

### Abstract

### Background

Hypnotherapy is widely promoted as a method for aiding smoking cessation. It is proposed to act on underlying impulses to weaken the desire to smoke or strengthen the will to stop.

### Objectives

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