

# LUNCH & LEARN



Cochrane Reviews lesen und verstehen



**Referentin:** Dr. Birgit Schindler  
(Cochrane Deutschland Stiftung)

**Moderation:** Dr. Angelika Eisele-Metzger  
(Cochrane Deutschland Stiftung, Institut für Evidenz in der Medizin, Freiburg)

Zuverlässige Evidenz.  
Informierte Entscheidungen.  
Bessere Gesundheit.

Gefördert durch:



aufgrund eines Beschlusses  
des Deutschen Bundestages



# Interessenkonflikte

Birgit Schindler

- Wissenschaftliche Mitarbeiterin in der Cochrane Deutschland Stiftung seit 2022
- Die Referentin versichert, dass in Bezug auf den Inhalt des folgenden Vortrags keine Interessenkonflikte bestehen, die sich aus Beziehungen zu einem Unternehmen ergeben, z. B. einem Beschäftigungsverhältnis, einer Beratertätigkeit, finanziellen Zuwendungen für Forschungsvorhaben, Vorträgen oder anderen Tätigkeiten.

## Vorab eine Frage...



# Welche Informationen sind verlässlich ?



*„Die größte Tragödie unserer Gesellschaft ist,  
dass wir quantitativ über- und qualitativ  
unterinformiert sind.“*

*(Pierre Lévy)*

## **Systematische Reviews als die Antwort auf die Informationsflut in der Medizin**

- ⇒ Zusammenfassung von Studien zu gesundheitsrelevanten Fragestellungen
- ⇒ Beurteilung der Vertrauenswürdigkeit der Evidenz
- ⇒ Aktualität

# Ein systematischer Review ist ...

- eine wissenschaftliche Arbeit,
- in der die **verfügbare** empirische **Evidenz**
  - ▶ zu einer **spezifischen Fragestellung (PICO-Schema)**,
  - ▶ unter Anwendung **systematischer Methoden**,
- **identifiziert**,
- **zusammengefasst** und
- **kritisch bewertet** ist.

Weitere Ressourcen:

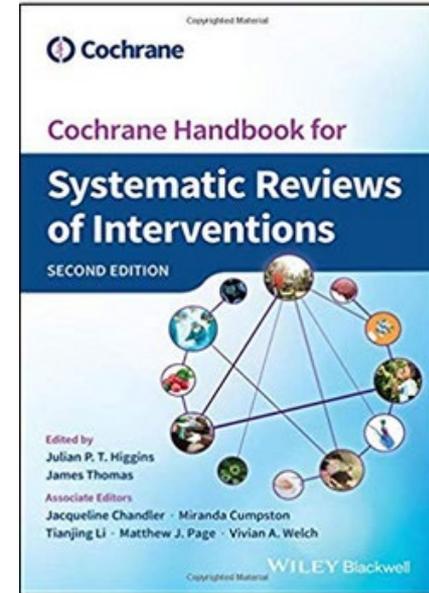
Video: [Features and benefits of a systematic review](#) (by Ruth Foxlee & Miranda Cumston)

# Was sind Cochrane Reviews ?

- nach den Standards von Cochrane erstellt und
- in der Cochrane Library publiziert



- hohe methodische Qualität
- Transparenz
- einheitliches Format
- regelmäßige Aktualisierungen



Cochrane Handbook Version 6  
<https://training.cochrane.org/handbook/current>

## Eine Meta-Analyse ist ...

- kein eigenständiges Evidenzsyntheseformat
  - kann Teil eines systematischen Reviews sein
  - bezeichnet die Art der Auswertung der Ergebnisse der eingeschlossenen Studien
- ⇒ **quantitative Zusammenfassung** der Ergebnisse  
mehrerer Studien **mit statistischen Methoden**



# Überblick

1. Wo findet man Cochrane Reviews ?
  - ⇒ Suchmöglichkeiten in der **Cochrane Library**  
siehe unser letztes Webinar (Aufzeichnung)
2. Wie man durch einen Cochrane Review navigiert
3. Die wichtigsten Elemente eines Cochrane Reviews

# Beispiel:

Hilft Zink bei  
Erkältung?



Cochrane Database of Systematic Reviews

## Zinc for prevention and treatment of the common cold (Review)

Nault D, Machingo TA, Shipper AG, Antiporta DA, Hamel C, Nourouzpour S, Konstantinidis M, Phillips E, Lipski EA, Wieland LS

# Wie man durch einen Cochrane Review navigiert



Trusted evidence.  
Informed decisions.  
Better health.

Review language : English Website language : English Sign In

Title Abstract Keyword

Browse Advanced search

Cochrane reviews

Searching for trials

Clinical Answers

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## Zinc for prevention and treatment of the common cold

Daryl Nault, Taryn A Machingo, Andrea G Shipper, Daniel A Antiporta, Candyce Hamel, Sahar Nourouzpour, Menelaos Konstantinidis, Erica Phillips, Elizabeth A Lipski, L Susan Wieland [Authors' declarations of interest](#)

Version published: 09 May 2024 [Version history](#)

<https://doi.org/10.1002/14651858.CD014914.pub2>

[Collapse all](#) [Expand all](#)

### Abstract

Available in [English](#) | [Español](#) | [فارسی](#) | [Français](#) | [한국어](#)

### Background

The common cold is an acute, self-limiting viral respiratory illness. Symptoms include nasal congestion and mucus discharge, sneezing, sore throat, cough, and general malaise. Given the frequency of colds, they are a public health burden and a significant cause of lost work productivity and school absenteeism. There are no established interventions to prevent colds or shorten their duration. However, zinc supplements are commonly recommended and taken for this purpose.

### Objectives

To assess the effectiveness and safety of zinc for the prevention and treatment of the common cold.

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Full text views: 6832

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# Zusammenfassungen in einfacher Sprache auf Deutsch



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The common cold is an acute, self-limiting viral respiratory illness. Symptoms include nasal congestion and mucus discharge, sneezing, sore throat, cough, and general malaise. Given the frequency of colds, they are a public health burden and a significant cause of lost work productivity and school absenteeism. There are no established interventions to prevent colds or shorten their duration. However, zinc supplements are commonly recommended and taken for this purpose.

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Navigation durch den Content

# Wie man durch einen Cochrane Review navigiert

## PICOs<sup>1</sup>

### Population (8)

Child, Preschool 2-5 years  
Aged 80 and over 80+ years  
Adult 19-44 years  
Child 6-12 years  
Middle Aged 45-64 years  
Young Adult 19-24 years  
Aged 65-79 years  
Adolescent 13-18 years

### Intervention (1)

Zinc

### Comparison (1)

Placebo

### Outcome (3)

Serious Adverse Event  
Common Cold  
Adverse Event

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## Authors' conclusions

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### Implications for practice

This Cochrane review found varied evidence to support the effectiveness of zinc in the prevention or treatment of the common cold. Zinc supplementation may provide some limited benefits for people with the common cold. On the basis of this review, the current evidence is insufficient to provide firm conclusions or recommend zinc supplementation for the prevention or treatment of the common cold.

### Implications for research

Zinc supplementation for the prevention of the common cold or as an effective treatment has been widely studied. However, the certainty of evidence was mostly low to very low, and was insufficient to draw firm conclusions. Future researchers should note the need for standardised methods when providing zinc supplementation for the prevention or treatment of the common cold. More research is needed to determine the exact zinc type, dose, and duration of supplementation appropriate for the prevention or treatment of the common cold. Future directions for research might be to consider exploring the subjective experience or quality of life of participants while taking zinc, increasing the diversity of characteristics in the participants recruited (varied race/ethnicity, age, gender, health status), and further examining factors that may interfere with the bioavailability of zinc.

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# Wie man durch einen Cochrane Review navigiert

*Bin ich hier richtig ?*

## Summary of findings 2. Zinc compared to placebo for treatment of the common cold

**Patient or population:** adults and children with colds and/or upper respiratory infections

**Setting:** community, schools, outpatient and private health centre/clinics

**Intervention:** zinc

**Comparison:** placebo

Outcomes	Illustrative comparative risks* (95% CI)		Effect (95% CI)	No. of participants (studies)	GRADE certainty of evidence	Comments
	Assumed risk	Corresponding risk				
	Placebo	Zinc				
Mean duration of colds in days  Duration of follow-up: 8 to 21 days	Mean duration of colds in control groups ranged from 5.1 to 9 days	The mean duration of colds in days in the intervention groups was on average <b>2.37 lower</b>  (95% CI -4.21 to -0.53)	—	972 (8 studies)	⊕⊕○○  Low <sup>a</sup>	There may be a reduction in the duration of colds treated with zinc.

<sup>a</sup>Downgraded one level due to risk of bias and one level due to inconsistency ( $I^2 > 50\%$ ).

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- Search strategies
- Characteristics of studies
- Analyses
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## Related

- Cochrane Clinical Answers(1)
- Editorials
- Podcasts(1)
- Special Collections

## About this review

- Information
- Authors
- Version history
- Keywords (MeSH, PICOs)
- Related content
- Translation notes

# Wie man durch einen Cochrane Review navigiert

- Results of the search (Fig. 1: Flowchart)
- Risk of Bias in included studies (Fig. 2 und 3)
- Effects of interventions (Prävention, Behandlung) für die einzelnen Endpunkte

Primäre Endpunkte:

Entwicklung einer Erkältung (Prävention), Dauer der Erkältung (Behandlung)

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Alle Analysen im Text verlinkt,  
auch hier über  
Schnellzugriff abrufbar

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## Question:

### What are the effects of zinc for the prevention and treatment of the common cold or upper respiratory tract infections (URIs)?

Amin Sharifan

26 November 2024

<https://doi.org/10.1002/cca.4493>

## Clinical Answer:

For infants, children, and adults without colds or URIs, taking prophylactic zinc may make little or no difference to the proportion of people who develop a cold or URI at up to seven months follow-up compared with placebo, or to the mean number of colds or URIs people develop at 5 to 18 months (low-certainty evidence). Children may miss slightly less school when taking prophylactic zinc (by around half a day); however, this difference may be of minimal importance (low-certainty evidence). Prophylactic zinc probably makes little to no difference to the mean duration of any colds or URIs (moderate-certainty evidence) and may make little to no difference to overall symptom severity, the proportion of children missing days from school, or the occurrence of serious adverse events (low-certainty evidence); however, the analysis was likely underpowered and suggests a possible increased risk of serious adverse events. The evidence on adverse events is very uncertain. No studies assessed days missed from work.

In children and adults with colds or URIs, low-certainty evidence suggests that treatment with zinc may reduce the average duration of colds or URIs by around 2.5 days; however, there may have been little to no difference between groups when studies at high or unclear risk of selection bias were excluded. Moderate-certainty evidence shows that zinc probably results in more adverse events compared with placebo (on average, 339 vs 254 per 1000 people). The most commonly reported adverse events were unspecified, followed by some form of taste aberration or gastrointestinal discomfort. The evidence about the effect of zinc on the risk of ongoing colds or URIs at the end of the study periods, overall severity of the cold, and days missed from school is very uncertain. No studies assessed days missed from work or serious adverse events.

## Comparisons

1. Zinc versus placebo for the prevention of colds

Expand All »

2. Zinc versus placebo for the treatment of colds

Expand All »

# Überblick

## 1. Wo findet man Cochrane Reviews ?

⇒ Suchmöglichkeiten in der Cochrane Library siehe unser letztes Webinar (Aufzeichnung)

## 2. Wie man durch einen Cochrane Review navigiert

## 3. Die wichtigsten Elemente eines Cochrane Reviews:

➤ **Risk of Bias Tabellen**

➤ **Forest Plots**

➤ **Summary of Findings Tabellen**

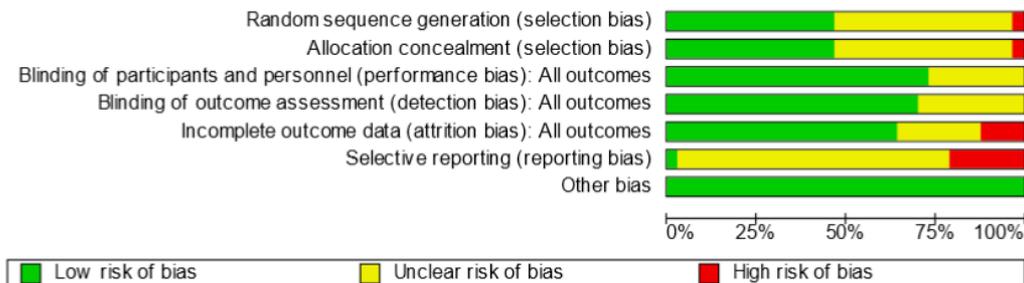
# Wichtige Elemente in Cochrane Reviews

## Risk of bias in included studies

Almost all studies were at unclear or high risk of bias in at least one domain. Detailed information about the risk of bias in the included studies is presented in the table for each study and overviews are provided in Figure 2 and Figure 3.

Figure 2

[Open in figure viewer](#)



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# Was ist Bias?

- Systematische Fehler oder Verzerrungen bei der Durchführung und Analyse von Studien
- kann zu Über- oder Unterschätzung von Effekten in Studien führen
  
- Deshalb: Verzerrungsrisiko für jede Studie bewerten
  - ▶ Cochrane-Risk-of-Bias-Tool (ROB-1 oder ROB-2)



Mindestens zwei  
Beurteilende

# Wo lauert bei einer Studie Bias ?



- High risk
- ? Unclear risk
- + Low risk

Randomisiert ?

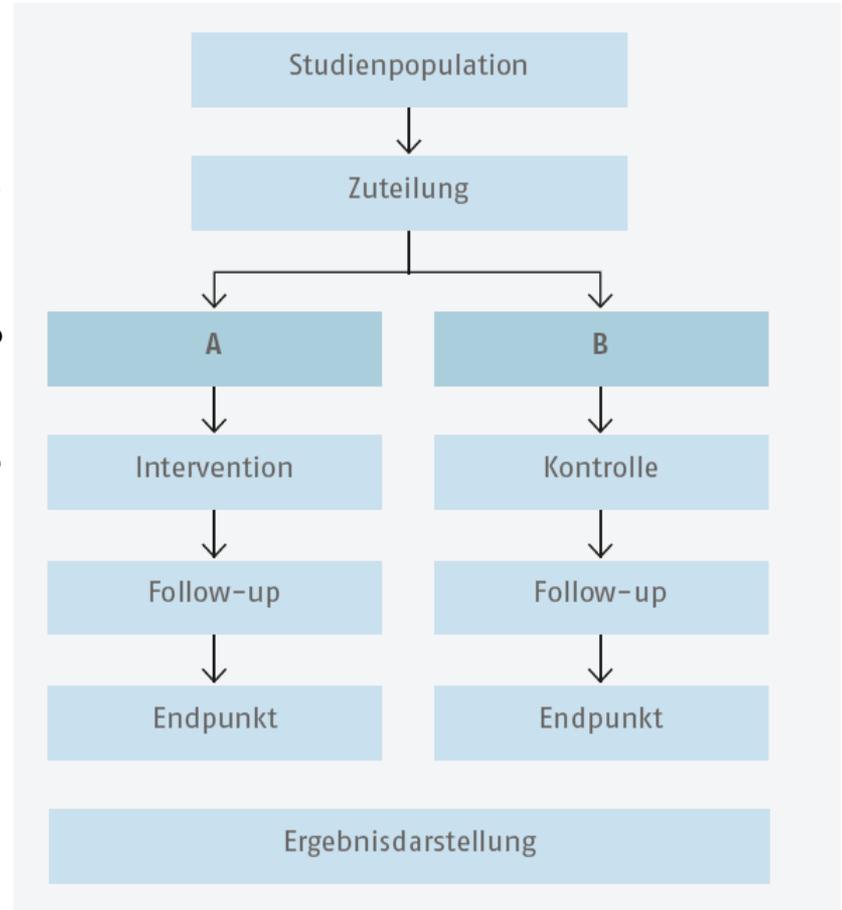
Verdeckte Zuteilung ?

Verblindet ?

Studienabbrecher ?

Endpunktmessung verblindet ?

Wie geplant ?



# Übung am Beispiel von Hirt et al. (2000)

Hirt 2000

## Study characteristics

### Methods

**Study design:** parallel randomised controlled trial

**Prevention or treatment trial:** treatment

**Concomitant treatments explicitly allowed or forbidden:** "Participants were instructed not to take any other cold remedies or any drugs that might affect symptom scores."

**Investigation of ability to distinguish between zinc and placebo:** NR

**Duration of follow-up:** "Subjects were asked to return to their study site within 24 hours of symptom resolution for verification and followup." 24 h?

**Duration of intervention:** "The primary endpoint was the complete resolution of symptoms, which was determined when the total symptom score fell to zero. Subjects were instructed to spray one dose into each nostril every 4 hours (9 a.m. , 1 p.m. , 5 p.m. , and 9 p.m .) for as long as they experienced symptoms." Max appears to be ~16 days.

**Duration of run-in or washout period:** NR

**Describe how participants were identified as having colds/URTI at baseline (treatment trial):** "Only subjects whose cold symptoms had been manifest for 24 hours or less were enrolled in the study. Subjects were required to have had at least three of the following symptoms: cough, headache, hoarseness, muscle ache, nasal drainage, nasal congestion, scratchy throat, sore throat, or sneezing."

**Outcomes measured:** duration of cold, global severity of cold (NR in results), severity of individual cold symptoms (NR in results), adverse events

Am score < 0

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## Related

## Risk of bias

Bias

Authors'  
judgement

Support for judgement

## Erfolgte die Zuteilung auf die Behandlungsgruppen nach dem Zufallsprinzip?

Bias	Authors' judgement	Support for judgement
Random sequence generation (selection bias)	?	Quote: "The study population consisted of 213 subjects; they were randomly assigned to receive either zinc nasal gel (n = 108) or placebo (n = 105)."

Was würden Sie vergeben?

High risk ?

Unclear risk ?

Low risk ?

## Erfolgte die Zuteilung auf die Behandlungsgruppen nach dem Zufallsprinzip ?

### Hirt 2000

Bias	Authors' judgement	Support for judgement
Random sequence generation (selection bias)	Unclear risk	Quote: "The study population consisted of 213 subjects; they were randomly assigned to receive either zinc nasal gel (n = 108) or placebo (n = 105)." Judgement comment: no description of method of sequence generation.

# Wie wird Risk of Bias in Cochrane Reviews dargestellt ?

## Hirt 2000



Random sequence generation (selection bias)

Allocation concealment (selection bias)

Blinding of participants and personnel (performance bias): All outcomes

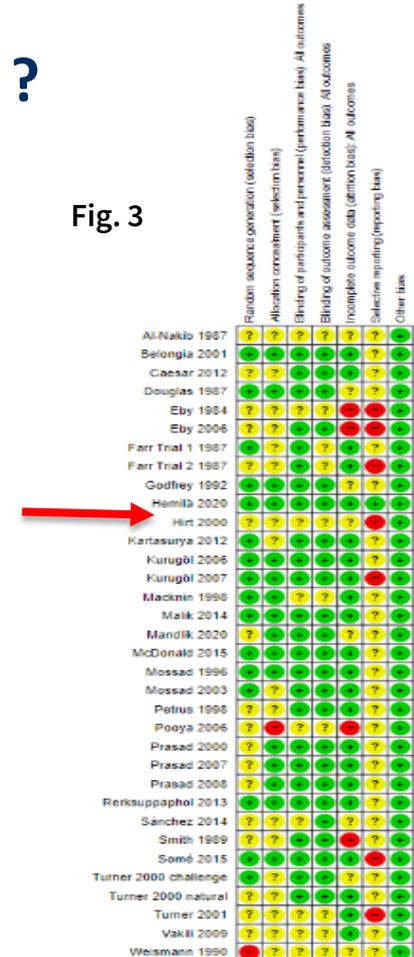
Blinding of outcome assessment (detection bias): All outcomes

Incomplete outcome data (attrition bias): All outcomes

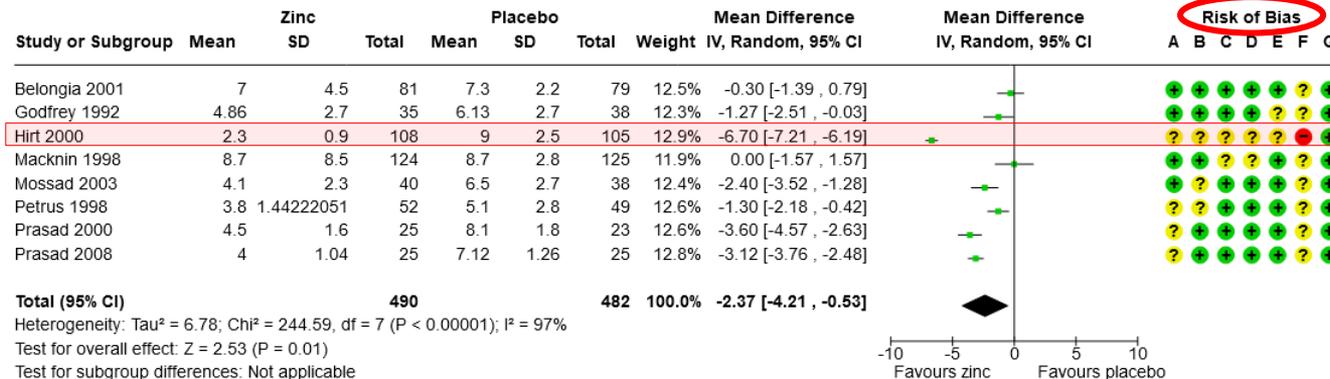
Selective reporting (reporting bias)

Other bias

Fig. 3



# Risk of Bias – auch im Forest Plot



## Risk of bias legend

- (A) Random sequence generation (selection bias)
- (B) Allocation concealment (selection bias)
- (C) Blinding of participants and personnel (performance bias)
- (D) Blinding of outcome assessment (detection bias)
- (E) Incomplete outcome data (attrition bias)
- (F) Selective reporting (reporting bias)
- (G) Other bias

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## Eine Metaanalyse ist ...

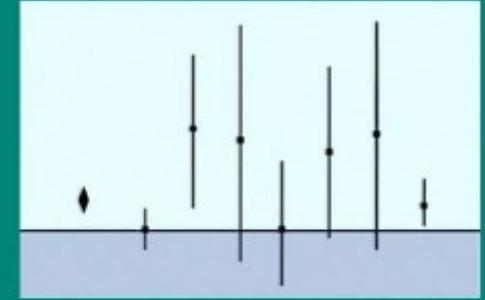
- die **quantitative** Zusammenfassung der Ergebnisse mehrerer Studien mit statistischen Methoden.

## Ein Forest Plot ist ...

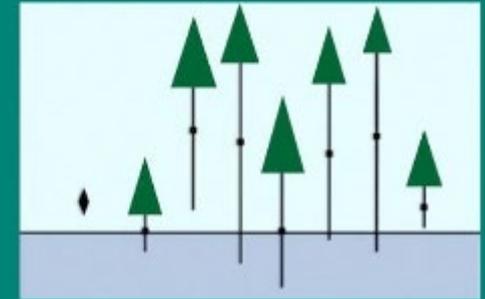
- die **grafische** Darstellung der Ergebnisse einer Metaanalyse.
- Ergebnisse auf einen Blick sichtbar

Woher der Forest Plot seinen Namen hat, ist nicht ganz klar. Eine mögliche Erklärung:

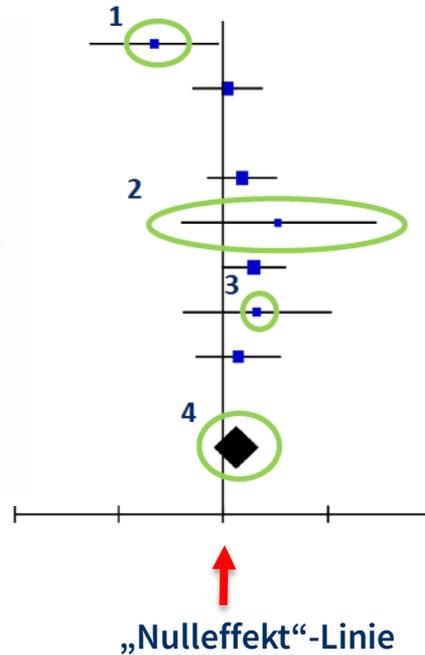
Drehen:



Blätter dran:



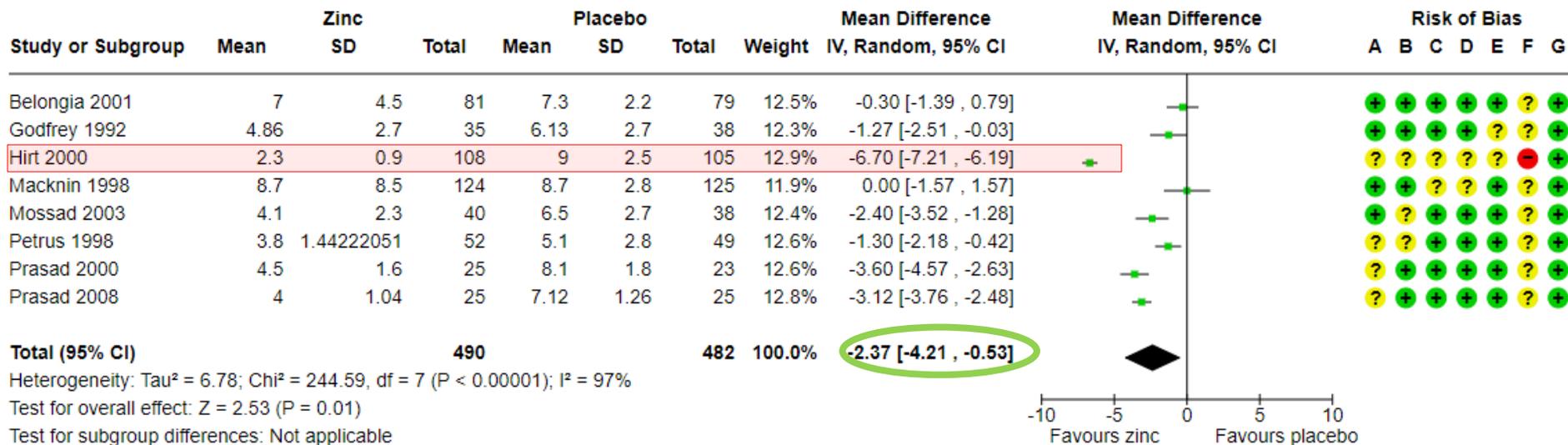
# Die typischen Elemente eines Forest Plots



1. Therapieeffekt Einzelstudie (Lage)
2. Unsicherheit (Breite des Konfidenzintervalls)
3. Gewicht der Studie (Dicke des Quadrats)
4. Gepoolter Effekt (Raute)

# Forest Plot

## Effekt von Zink auf die Dauer der Erkältungssymptome im Vergleich zu Placebo



# Summary of Findings Tabellen in Cochrane Reviews

## Summary of findings 2. Zinc compared to placebo for treatment of the common cold

**Patient or population:** adults and children with colds and/or upper respiratory infections

**Setting:** community, schools, outpatient and private health centre/clinics

**Intervention:** zinc

**Comparison:** placebo

Outcomes	Illustrative comparative risks* (95% CI)		Effect (95% CI)	No. of participants (studies)	GRADE certainty of evidence	Comments
	Assumed risk	Corresponding risk				
	Placebo	Zinc				
Mean duration of colds in days  Duration of follow-up: 8 to 21 days	Mean duration of colds in control groups ranged from 5.1 to 9 days	The mean duration of colds in the intervention groups was on average <b>2.37 lower</b> (95% CI -4.21 to -0.53)	—	972 (8 studies)	⊕⊕○○ Low <sup>a</sup>	There may be a reduction in the duration of colds treated with zinc.

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# GRADE: Vier Stufen der Vertrauenswürdigkeit

- Bewertung der Vertrauenswürdigkeit des gesamten „Evidenzkörpers“

Vertrauenswürdigkeit	Definition	GRADE
Hoch	Wir sind uns <b>sehr sicher</b> dass der wahre Effekt innerhalb der berechneten Spannweite liegt.	⊕⊕⊕⊕
Moderat	Wir sind <b>einigermaßen sicher</b> : Der wahre Effekt liegt wahrscheinlich in der berechneten Spannweite, allerdings besteht die Möglichkeit, dass er substantziell unterschiedlich ist.	⊕⊕⊕⊖
Niedrig	Unser <b>Vertrauen ist begrenzt</b> : Der wahre Effekt ist vermutlich substantziell verschieden.	⊕⊕⊖⊖
Sehr niedrig	Wir haben <b>nur sehr geringes Vertrauen</b> . Der wahre Effekt ist wahrscheinlich substantziell unterschiedlich.	⊕⊖⊖⊖

# Qualität der Evidenz: GRADE

► Bewertung anhand dieser Aspekte:

 **Risk of Bias:** Wie ist die methodische Qualität der Studien?

 **Direktheit:** Wie gut passen die Studien zur Fragestellung?

 **Heterogenität/Inkonsistenz:** Wie unterschiedlich sind die Ergebnisse?

 **Präzision:** Wie präzise ist das Ergebnis der Metaanalyse?

 **Publikations-Bias:** Gibt es Hinweise, dass nicht alle Studien veröffentlicht wurden?

# Summary of Findings Tabellen in Cochrane Reviews

## Summary of findings 2. Zinc compared to placebo for treatment of the common cold

[Open in table viewer](#)

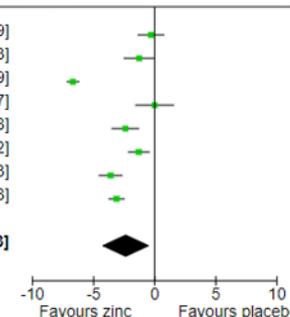
**Patient or population:** adults and children with colds and/or upper respiratory infections

**Setting:** community, schools, outpatient and private health centre/clinics

**Intervention:** zinc

**Comparison:** placebo

Outcomes	Illustrative comparative risks* (95% CI)		Effect (95% CI)	No. of participants	GRADE certainty	Comments
	Assumed risk	Corresponding risk				
	Placebo	Zinc	Mean Difference IV, Random, 95% CI	Mean Difference IV, Random, 95% CI		
Mean duration of colds in days  Duration of follow-up: 8 to 21 days	Mean duration of colds in control groups ranged from 5.1 to 9 days	The mean duration of colds in days in the intervention groups was on average <b>2.37 lower</b> (95% CI -4.21 to -0.53)	-0.30 [-1.39 , 0.79] -1.27 [-2.51 , -0.03] -6.70 [-7.21 , -6.19] 0.00 [-1.57 , 1.57] -2.40 [-3.52 , -1.28] -1.30 [-2.18 , -0.42] -3.60 [-4.57 , -2.63] -3.12 [-3.76 , -2.48]  <b>-2.37 [-4.21 , -0.53]</b>			There may be a reduction in the duration of colds with zinc.



<sup>a</sup>Downgraded one level due to risk of bias and one level due to inconsistency ( $I^2 > 50\%$ ).

## Der Heterogenität auf der Spur: Subgruppenanalysen

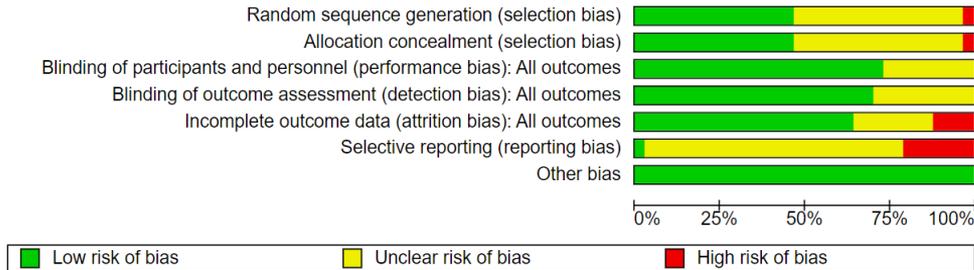
- Lutschtabletten versus intranasales Zink (Analyse 9.2)
- Kinder versus Erwachsene (nicht durchgeführt)
- hohe ( $\geq 85$  mg/Tag) versus niedrige Zinkdosierung (Analyse 9.3)

## Der Ergebnisstabilität auf der Spur: Sensitivitätsanalysen

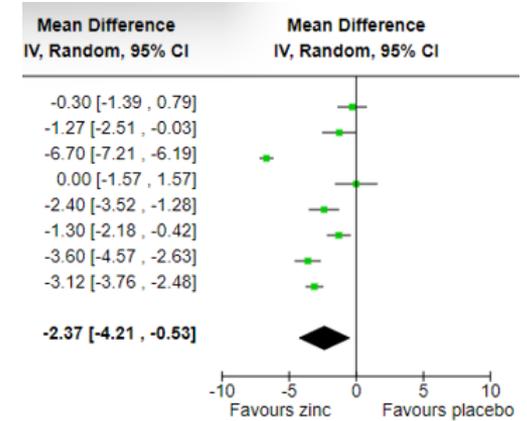
Ausschluss von Studien (Tabelle 4):

- mit hohem oder unklarem Bias-Risiko
- bei denen mehr als 20 % der Teilnehmenden die Studie vorzeitig abgebrochen haben
- mit *“Infektionen der oberen Atemwege”* (statt *“Erkältung”*)

# Wichtige Elemente in Cochrane Reviews



## 1. Risk of bias Tabelle



## 3. Forest Plot

### Summary of findings 2. Zinc compared to placebo for treatment of the common cold

**Patient or population:** adults and children with colds and/or upper respiratory infections  
**Setting:** community, schools, outpatient and private health centre/clinics  
**Intervention:** zinc  
**Comparison:** placebo

Outcomes	Illustrative comparative risks* (95% CI)		Effect (95% CI)	No. of participants (studies)	GRADE certainty of evidence	Comments
	Assumed risk	Corresponding risk				
	Placebo	Zinc				
Mean duration of colds in days	Mean duration of colds in control groups ranged from 5.1 to 9 days	The mean duration of colds in days in the intervention groups was on average <b>2.37 lower</b> (95% CI -4.21 to -0.53)	—	972 (8 studies)	⊕⊕○○ Low <sup>a</sup>	There may be a reduction in the duration of colds treated with zinc.
Duration of follow-up: 8 to 21 days						

<sup>a</sup>Downgraded one level due to risk of bias and one level due to inconsistency ( $I^2 > 50\%$ ).

## 2. Summary of Findings Tabellen

**Vielen Dank für Ihre  
Aufmerksamkeit!**

[schindler@cochrane.de](mailto:schindler@cochrane.de)



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# Lunch & Learn

**HANDOUT** **AUFZEICHNUNG**



Weitere Handouts und Aufzeichnungen vergangener  
Webinare auf <https://www.cochrane.de>

Nächster Termin:

*02. Juli 2025: Redundanz von Systematischen Reviews (gemeinsam mit EbM-Netzwerk)*

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# Weiterführende Cochrane Workshops

Systematische Übersichtsarbeiten  
erstellen

25. - 26. & 29. - 30. September 2025 (online)



RCTs kritisch bewerten - RoB 2

24. Oktober 2025 09:00 - 15:00 Uhr (online)



Systematische Übersichtsarbeiten  
kritisch bewerten - AMSTAR 2

14. November 2025 09:00 - 13:30 Uhr (online)



GRADE

**GRADE**

02. - 04. Dezember 2025 (online)



## Workshops

Wenn Sie über **neue Termine** benachrichtigt werden wollen, melden Sie sich einfach auf unserer **Interessent\*innen-Liste für Veranstaltungen von Cochrane Deutschland** an. Wir informieren Sie dann individuell über den Start der Online-Anmeldungen für unsere Veranstaltungen in Frühjahr & Herbst.

<https://www.cochrane.de/interessentenliste-workshops>

<https://www.cochrane.de/veranstaltungen>

# Evaluation



[https://survey.lamapoll.de/Lunch\\_and\\_Learn\\_Cochrane\\_Reviews\\_lesen](https://survey.lamapoll.de/Lunch_and_Learn_Cochrane_Reviews_lesen)

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