



**Akademie für hausärztliche  
Fortbildung Bremen**



Deutsche Gesellschaft für  
Allgemeinmedizin und Familienmedizin

# Pubmed-Recherche für HausärztInnen

Erstellt von Günther Egidi und  
Klaus Gebhardt am 24.2.2011,  
Hausärzte in Bremen

# Ziel des Tutorials:

HausärztInnen, die damit bislang keine Erfahrungen haben, die Scheu vor der Benutzung der Pubmed-Datenbank nehmen

# Wie Sie es am besten machen:

1. eine Tasse Kaffee oder Tee und ein wenig Zeit
2. ein Internet-fähiger Rechner
3. Powerpoint oder das entsprechende Programm von Open office (Impress)
4. Öffnen Sie nacheinander diese Powerpoint-Datei und Ihren Internet-Browser
5. Springen Sie mit dem „Klammergriff“ alt-Tab zwischen den beiden Anwendungen hin und her und testen Sie, was Sie in der Präsentation gesehen haben, gleich „life“ im Internet

# Pubmed

- eine riesige von der US-amerikanischen Regierung unterstützte Datenbank. Pubmed ist verbunden mit Medline, worin international medizinische Zeitschriften nach der Häufigkeit ihrer Zitierung gelistet sind.
- freier Zugang
- englische Sprache
- Eingespeiste Artikel sind „verschlagwortet“ in MeSH (Medical Subject-Headings).
- Viele deutsche allgemeinmedizinische Zeitschriften sind nicht berücksichtigt.

# 1. Aufgabe: der richtige englische Begriff

- Voraussetzung: das englische Wort ist bekannt.
- Beispiel-Frage: kann Metformin in der Schwangerschaft eingesetzt werden?
- Unter leo (learning English online) kann der richtige englische Begriff gesucht werden:  
<http://dict.leo.org/ende?lang=de&lp=ende>
- Schwangerschaft = gravidity od. pregnancy
- Intrauterine Missbildung = malformation

## 2. Aufgabe: Formulieren der Such- Frage

Bewährt ist das PICO-Schema:

**P**atient (Schwangere Frauen)

**I**ntervention (Metformin)

**C**ontrol (Placebo)

**O**utcome (Missbildungen)

Beispiel also: ist Metformin in der Schwangerschaft  
kontraindiziert?

# Und los geht's

<http://www.ncbi.nlm.nih.gov/pubmed/>

Wir fragen: ist Metformin in der Schwangerschaft kontraindiziert?

# http://www.ncbi.nlm.nih.gov/pubmed/

PubMed home - Mozilla Firefox

File Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

http://www.ncbi.nlm.nih.gov/pubmed/ Churg-Strauss-Syndrom

Meistbesuchte Seiten Aktuelle Nachrichten PraxWiki a-t arznei-telegramm KV KVHB eDMP joliprint Elektronische Zeitschri...

PubMed home

NCBI Resources How To My NCBI Sign In

PubMed.gov  
U.S. National Library of Medicine  
National Institutes of Health

Search: PubMed Limits Advanced search Help

Search Clear



## PubMed

PubMed comprises more than 20 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed, PubMed Central, and publisher websites.

1. Die Schlagwort-Datenbank MeSH anwählen

### Using PubMed

[PubMed Quick Start Guide](#)

[Full Text Articles](#)

[PubMed FAQs](#)

[PubMed Tutorials](#)

[New and Noteworthy](#)

### PubMed Tools

[Single Citation Matcher](#)

[Batch Citation Matcher](#)

[Clinical Queries](#)

[Topic-Specific Queries](#)

### More Resources

[MeSH Database](#)

[Journals in NCBI Databases](#)

[Clinical Trials](#)

[E-Utilities](#)

[LinkOut](#)



# Jetzt erst mal das 1. Schlagwort (MeSH)

NCBI Resources How To My NCBI Sign

MeSH  
NLM Controlled Vocabulary

Search: MeSH Limits Advanced search Help

Metformin Search Clear

2. Ersten Suchbegriff eingeben

MeSH (Medical Subject Headings) is the NLM controlled vocabulary thesaurus used for indexing articles for PubMed.

3. Die erste Suche starten

## Using MeSH

[Help](#)

[Tutorials](#)

## More Resources

[E-Utilities](#)

[NLM MeSH Homepage](#)

# MeSH

NLM Controlled Vocabulary

Search:

[Save search](#) [Limits](#) [Advanced search](#) [Help](#)

[Display Settings](#)

4. „Metformin“ anwählen

5. Im Dropdown-Menü anklicken:  
„Add to search builder with  
And“

**Results: 4** Selected: 1

[Metformin](#)

1. A biguanide hypoglycemic agent used in the treatment of non-insulin-dependent diabetes mellitus not responding to dietary modification. Metformin improves glycemic control by improving insulin sensitivity and decreasing intestinal absorption of glucose. (From Martindale, The Extra Pharmacopoeia, 30th ed, p289)

[tetrachloro\(metformin\)platinum\(IV\) \[Supplementary Concept\]](#)

2. structure in first source  
Date introduced: November 3, 1997

[rosiglitazone-metformin combination \[Supplementary Concept\]](#)

### Find related data

Database:

# Jetzt gleich der nächste Suchbegriff

NCBI Resources  How To  My NCBI S

## MeSH

NLM Controlled Vocabulary

Search:  Save search Limits Advanced search Help

Display Settings:  Summary  Send to:

**Results: 4 Selected: 1**

[Metformin](#)

1. A biguanide hypoglycemic agent used in the treatment of non-insulin-dependent diabetes mellitus not responding to dietary modification. Metformin improves glycemic control by improving insulin sensitivity and decreasing intestinal absorption of glucose. (From Martindale, The Extra Pharmacopoeia, 30th ed, p289)

[tetrachloro\(metformin\)platinum\(IV\) \[Supplementary Concept\]](#)

2. structure in first source  
Date introduced: November 3, 1997

PubMed search builder

6. Querybox leeren durch Klick auf „Clear“

Add to search builder

Find related data

Database:

# Jetzt das 2. MeSH-Schlagwort

NCBI Resources How To My NCBI S

MeSH  
NLM Controlled Vocabulary

Search: MeSH Save search Limits Advanced search Help

pregnancy Search Clear

Display Settings: Summary

Results: 4

[Metformin](#)

1. A biguanide hypoglycemic agent used in the treatment of non-insulin-dependent diabetes mellitus not responding to dietary modification. Metformin improves glycemic control by improving insulin sensitivity and decreasing intestinal absorption of glucose. (From Martindale, The Extra Pharmacopoeia, 30th ed. p289)

[tetrachloro\(metformin\)platinum\(IV\) \[Supplementary Concept\]](#)

2. structure in first source  
Date introduced: November 3, 1997

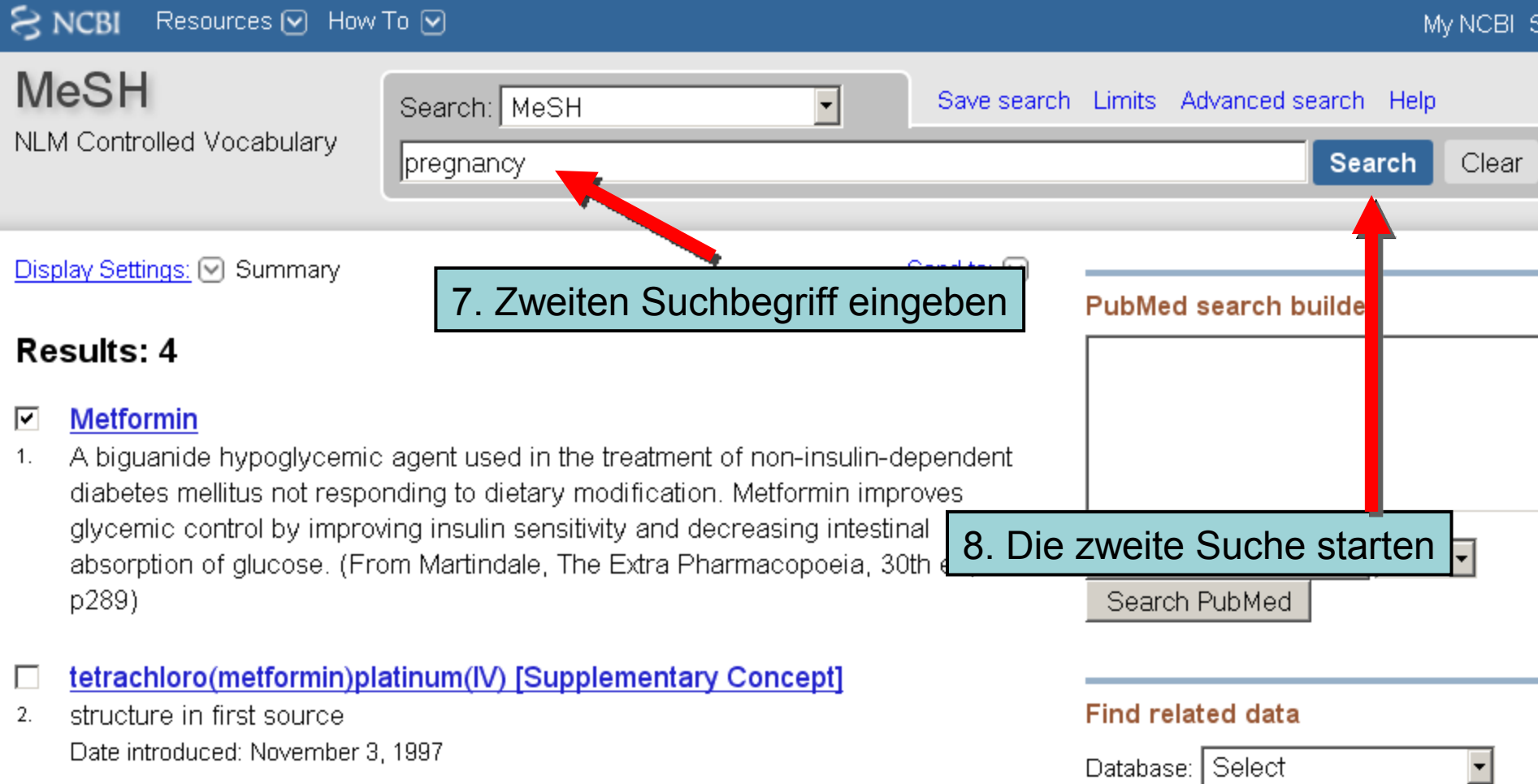
PubMed search builder

8. Die zweite Suche starten

Search PubMed

Find related data

Database: Select



# MeSH

NLM Controlled Vocabulary

Search: MeSH

Save search Limits Advanced search Help

pregnancy

Search

Clear

Display Settings:

9. Jetzt das Häkchen bei Pregnancy setzen

Send to:

<< First < Prev Page 1 of 5 Next > Last >>

Results 1 to 20 of 94 Selected: 1

[Pregnancy](#)

- 1. The status during which female mammals carry their developing young (EMBRYOS or FETUSES) in utero before birth, beginning from FERTILIZATION to BIRTH.  
Year introduced: 1963

[Pregnancy-Specific beta 1-Glycoprotein](#)

- 2. Glycoproteins with the electrophoretic mobility of beta 1-glycoprotein in the placental TROPHOBLASTS into the fetal circulation during the PREGNANCY. They can be detected in the fetal circulation at the end of pregnancy. They are associated with fetal wall being

10. Wieder im Dropdown-Menü anklicken: „Send to search builder with And“

## PubMed search builder

"Metformin" [Mesh]

Add to search builder AND

Search PubMed

## related data

Find items: Select

# 3. MeSH-Term: „Malformation“

NCBI Resources How To My NCBI S

MeSH NLM Controlled Vocabulary

Search: MeSH Save search Limits Advanced search Help

pregnancy Search Clear

11. Querybox wieder leer machen

MeSH NLM Controlled Vocabulary

Search: MeSH Save search Limits Advanced search Help

malformation

12. „Malformation“ als 3. MeSH-Begriff eintragen

Display Settings: Send to:

Results: 1 to 20 of 45 Select

[Congenital Abnormalities](#)

1. Malformations of organs or body parts during development in utero.  
Year introduced: 2008 (1963)

[Arnold-Chiari Malformation](#)

2. A group of congenital malformations involving the brainstem, cerebellum, upper spinal cord, and surrounding bony structures. Type II is the most common, and

13. Häkchen bei „Congenital Abnormalities“

14. Wieder im Dropdown-Menü anklicken: „Send to search builder with And“

PubMed search builder

(“Metformin” [Mesh]) AND  
“Pregnancy” [Mesh]

Add to search builder AND

Search PubMed

Auf die Suche des 4. Suchbegriffs  
„Placebo“ verzichten wir –  
„Placebo“ wird häufig nicht als  
MeSH-Begriff gelistet. Die Suche  
würde unter Einbezug des  
Begriffes „Placebo“ keine  
Ergebnisse bringen.

# Jetzt endlich kommt die eigentliche Pubmed-Suche:

NCBI Resources How To

## MeSH

NLM Controlled Vocabulary

Search: MeSH

malformation

Search Clear

Display Settings: Summary, 20 per page Send to:

Results: 1 to 15. Hier die kombinierte Pubmed-Suche starten

- [Congenital Abnormalities](#)
  - Malformations of organs or body parts during development in utero.  
Year introduced: 2008 (1963)
- [Arnold-Chiari Malformation](#)
  - A group of congenital malformations involving the brainstem, cerebellum, upper spinal cord, and surrounding bony structures. Type II is the most common, and features compression of the medulla and cerebellar tonsils into the upper cervical spinal canal and an associated MENINGOMYELOCELE. Type I features similar, but less severe malformations and is without an associated meningomyelocele.

PubMed search builder

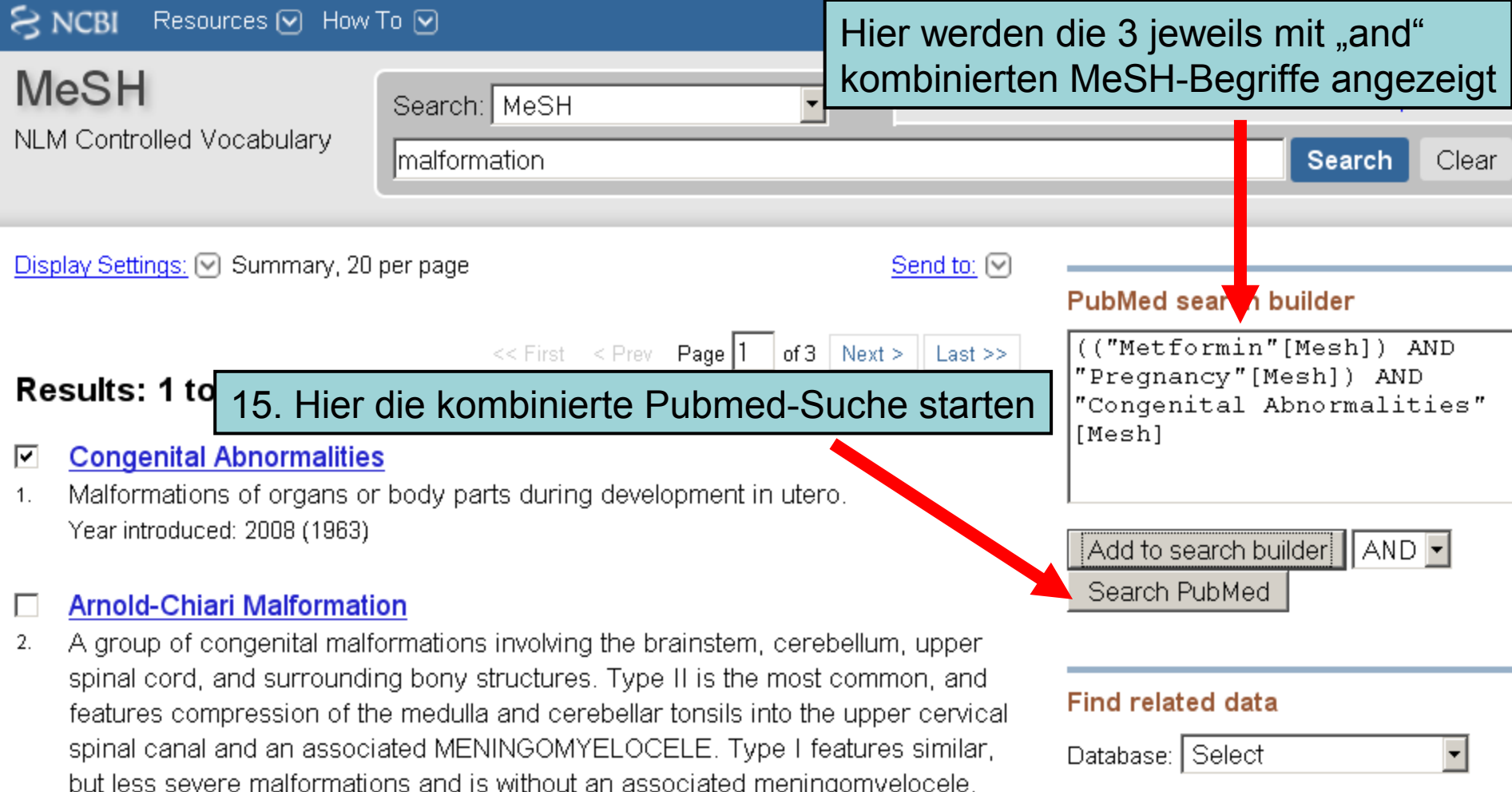
```
(( "Metformin" [Mesh] ) AND  
"Pregnancy" [Mesh] ) AND  
"Congenital Abnormalities"  
[Mesh]
```

Add to search builder AND

Search PubMed

Find related data

Database: Select



# Herzlichen Glückwunsch!

## Ihre Pubmed-Suche brachte 19 Treffer!

Search: PubMed

RSS Save search Limits Advanced search Help

("Metformin"[Mesh] AND "Pregnancy"[Mesh]) AND "Congenital Abnormalities"[t

Search

Clear

Display Settings: Summary, 20 per page, Sorted by Recently Added

Send to:

Filter your results:

**Results: 19**

All (19)

Review (11)

Free Full Text (4)

1. [Dehydroepiandrosterone to induce murine models for the study of polycystic ovary syndrome.](#)

Motta AB.

J Steroid Biochem Mol Biol. 2010 Apr;119(3-5):105-11. Epub 2010 Feb 25. Review.

PMID: 20188831 [PubMed - indexed for MEDLINE]

[Related citations](#)

[Manage full text](#)

2. [Should physicians prescribe metformin to women with polycystic ovary syndrome PCOS?](#)

Duranteau L, Lefevre P, Jeandidier N, Simon T, Christin-Maitre S.

Ann Endocrinol (Paris). 2010 Feb;71(1):25-7. Epub 2010 Jan 15. Review.

PMID: 20079483 [PubMed - indexed for MEDLINE]

1 free full-text article in PubMed Central

Safety of metformin use during the first trimester of pregnancy  
[Can Fam Physician.

Find related data

# Jetzt erst mal in Ruhe durchatmen!

- Als erstes überlegen: wie viele Treffer schaffen Sie als viel beschäftigte Hausärztin überhaupt anzusehen?
- Wie wollen Sie jetzt die Suchfilter einstellen?

Es ist wie mit jeder Diagnostik:

- je sensitiver Sie suchen, um so mehr Schrott ist

dabei

- je mehr sich Ihre Suche auf sicher Brauchbares

beschränkt, um so mehr vielleicht doch

**lohnende Arbeiten übersehen Sie.**

# Vielleicht sind Ihnen 19 Arbeiten zu viel

NCBI Resources How To My NCBI

PubMed.gov  
U.S. National Library of Medicine  
National Institutes of Health

Search: PubMed

RSS Save search Limits Advanced search Help

Search Clear

Display Settings: Summary, 20 per page, Sorted by Recently Added

Send to: Filter your results:

Results: 19

All (19)  
Review (1)  
Free Full Text (4)

16. Wir verschärfen die Suchfilter mit "Limits"

1 free full-text article in PubMed Central

Safety of metformin use during the first trimester of pregnancy [Can Fam Physician.]

Find related data

1. [Dehydroepiandrosterone to induce murine models for the study of polycystic ovary syndrome.](#)  
Motta AB.  
J Steroid Biochem Mol Biol. 2010 Apr;119(3-5):105-11. Epub 2010 Feb 25. Review.  
PMID: 20188831 [PubMed - indexed for MEDLINE]  
[Related citations](#)

2. [Should physicians prescribe metformin to women with polycystic ovary syndrome PCOS?](#)  
Duranteau L, Lefevre P, Jeandidier N, Simon T, Christin-Maitre S.  
Ann Endocrinol (Paris). 2010 Feb;71(1):25-7. Epub 2010 Jan 15. Review.  
PMID: 20079483 [PubMed - indexed for MEDLINE]

# Die schärfste Einschränkung

## Limits

**Dates**

Published in the Last:

**Type of Article**

- Clinical Trial
- Editorial
- Letter
- Meta-Analysis
- Practice Guideline

**Languages**

- English
- French
- German
- Italian
- Japanese

**Species**

- Humans
- Animals

**Sex**

- Male
- Female

**Subsets**

- AIDS

**Ages**

- All Infant: birth-23 months

20

17. Wir nehmen nur Metaanalysen => Häkchen in das entspr. Kästchen

18. Tierversuche interessieren uns nicht

19. Russisch können wir vielleicht nicht

# Weitere mögliche Einschränkungen

Search: PubMed

metformin and pregnancy

Hier könnten wir uns beispielsweise auf Arbeiten aus den letzten 10 Jahren beschränken

## Limits

### Dates

Published in the Last: Any date

### Type of Article

- Meta-Analysis
- Practice Guideline
- Randomized Controlled Trial
- Review

Hier können wir uns Reviews anzeigen lassen – aber CAVE!

Review ist nicht gleich Review!

Es gibt Reviews aus systematischer Recherche und so genannte narrative Reviews. Die müssen nicht schlecht sein, man kann sich nur nicht unbedingt auf ihre Wissenschaftlichkeit verlassen.

### Species

- Humans
- Animals

### Subsets

- AIDS

### Ages

- All Infant: birth-23 months

# Und jetzt los!

Published in the last:

## Type of Article

- Clinical Trial
- Editorial
- Letter
- Meta-Analysis
- Practice Guideline

## Species

- Humans
- Animals

## Subsets

- AIDS
- Bioethics
- Cancer
- Complementary Medicine
- Core clinical journals

## Text Options

- Links to full text
- Links to free full text
- Abstracts

## Languages

- English
- French
- German
- Italian
- Japanese

## Sex

- Male
- Female

## Ages

- All Infant: birth-23 months
- All Child: 0-18 years
- All Adult: 19+ years
- Newborn: birth-1 month
- Infant: 1-23 months

## Search Field Tags

Field:

20. Suche starten

Reset

Search

# 2 Metaanalysen zum Thema Metformin und Schwangerschaft – eine sehr gute Zahl!

NCBI Resources How To My NCBI

PubMed.gov  
U.S. National Library of Medicine  
National Institutes of Health

Search: PubMed

RSS Save search Limits Advanced search

Search

Search: ["Metformin"[Mesh] AND "Pregnancy"[Mesh]) AND "Congenital Abnormalities"[Mesh]

Display Settings: Summary, Sorted by Recently Added

Send to:

Filter your results:

**Limits Activated:** Humans, Meta-Analysis, English, German [Change](#) | [Remove](#)

**Results: 2**

- [Metformin treatment before and during IVF or ICSI in women with polycystic ovary syndrome.](#)

Tso LO, Costello MF, Albuquerque LE, Andriolo RB, Freitas V.  
Cochrane Database Syst Rev. 2009 Apr 15;(2):CD006105. Review.  
PMID: 19370625 [PubMed - indexed for MEDLINE]  
[Related citations](#)

- [Pregnancy outcome after first-trimester exposure to metformin: a meta-analysis.](#)

Gilbert C, Valois M, Koren G.  
Fertil Steril. 2006 Sep;86(3):658-63. Epub 2006 Jul 31. Review.

All (2)

[Review \(2\)](#)

Free Full Text (0)

Find related data

Database: Select

Find items

Search details

["Metformin"[Mesh] AND ...

# Jetzt sehe ich nur Überschriften – wie kann ich mir die Abstracts ansehen?

NCBI Resources How To My NCBI

PubMed.gov  
U.S. National Library of Medicine  
National Institutes of Health

Search: PubMed

RSS Save search Limits Advanced search


Search

Search: ["Metformin"[Mesh] AND "Pregnancy"[Mesh]) AND "Congenital Abnormalities"[Mesh]

Display Settings:  Summary, Sorted by Recently Added

Send to:

Filter your results:

 Limits Activated: Humans, etc

21. Display-Einstellungen verändern

Results: 2

[Metformin treatment before and during IVF or ICSI in women with polycystic ovary syndrome.](#)

1. Tso LO, Costello MF, Albuquerque LE, Andriolo RB, Freitas V.  
Cochrane Database Syst Rev. 2009 Apr 15;(2):CD006105. Review.  
PMID: 19370625 [PubMed - indexed for MEDLINE]  
[Related citations](#)

[Pregnancy outcome after first-trimester exposure to metformin: a meta-analysis.](#)

2. Gilbert C, Valois M, Koren G.  
Fertil Steril. 2006 Sep;86(3):658-63. Epub 2006 Jul 31. Review.

Find related data

Database: Select

Find items

Search details

Search: ["Metformin"[Mesh] AND

# Abstracts anzeigen lassen

NCBI Resources How To My NCBI S

PubMed.gov  
U.S. National Library of Medicine  
National Institutes of Health

Search: PubMed

RSS Save search Limits Advanced search Help

Search Clear

Display Settings: Summary, Sorted by Recently Added

Send to:

Filter your results:

All (2)  
Review (2)  
Free Full Text (0)

Change | Remove

l in women with polycystic

Manage

related data

se: Select

tems

Search details

**Format**

- Summary
- Summary (text)
- Abstract
- Abstract (text)
- MEDLINE
- XML
- PMID List

**Sort by**

- Recently Added
- Pub Date
- First Author
- Last Author
- Journal
- Title

22. Abstracts anwählen – ggfs. noch mehr Abstracts anzeigen lassen oder die Sortierung verändern. Und dann „Apply“ anklicken

- [Pregnancy outcome after first meta-analysis.](#)  
Gilbert C, Valois M, Koren G.

# Die Treffer

- eine Metaanalysen befasste sich nur mit der Induktion einer Schwangerschaft bei polyzystischem Ovar – das interessiert uns hier nicht.
- Die 2. Metaanalyse beantwortet unsere Frage: „Kann Metformin in der Schwangerschaft eingesetzt werden?“

# Das Ergebnis

Fertil Steril. 2006 Sep;86(3):658-63. Epub 2006 Jul 31.

## **Pregnancy outcome after first-trimester exposure to metformin: a meta-analysis.**

Gilbert C, Valois M, Koren G.

Motherisk Program, Division of Clinical Pharmacology and Toxicology, The Hospital for Sick Children, The University of Toronto, Toronto, Ontario, Canada.

### **Abstract**

**OBJECTIVE:** To conduct a systematic review and meta-analysis of pregnancy outcome after metformin use for polycystic ovary syndrome (PCOS), because the efficacy of metformin has been demonstrated in the treatment of infertility caused by PCOS, whereas the fetal safety of metformin has received very little attention, and the few studies addressing this issue are limited by small sample sizes.

**DESIGN:** Meta-analytic review.

**SETTING:** All pertinent studies in MEDLINE and EMBASE from 1966 to September 2004.

**PATIENT(S):** Women with PCOS or diabetes.

**INTERVENTION(S):** Exposure to metformin in the first trimester of pregnancy.

**MAIN OUTCOME MEASURE(S):** Major malformations.

**RESULT(S):** Eight studies were included in the meta-analysis, with an odds ratio of 0.50 (95% confidence interval, 0.15, 1.60). After adjustment for publication bias, **metformin treatment in the first trimester was associated with a statistically significant 57% protective effect.** After pooling the studies, the malformation rate in the disease-matched control group was approximately 7.2%, statistically significantly higher than the rate found in the metformin group (1.7%).

**CONCLUSION(S):** On the basis of the limited data available today, there is no evidence of an increased risk for major malformations when metformin is taken during the first trimester of pregnancy. Large studies are needed to corroborate these preliminary results.

PMID: 16879826 [PubMed - indexed for MEDLINE]

# Ist Metformin wirklich unschädlich in der Frühschwangerschaft?

Die entscheidende Limitation dieser Metaanalyse können wir aus dem Abstract nicht sehen: es wurden nur Daten von 172 Frühschwangeren unter Metformin und 235 Kontrollpatientinnen analysiert.

vorsichtige Aussage also: erste Daten aus einer Metaanalyse aus 8 kleinen Studien weisen darauf hin, dass Metformin in der Frühschwangerschaft nicht schadet. Dies muss durch größere Untersuchungen bestätigt werden.

# Wie kann ich an Volltexte heran kommen?

- Werden Sie Lehrärztin einer allgemeinmedizinischen Abteilung!
- Sie tun etwas für den hausärztlichen Nachwuchs.
- Sie merken, wie viel Spaß es macht, das eigene hausärztliche Handeln weiter zu vermitteln.
- Sie bekommen zu den meisten wichtigen Journals einen Volltext-Zugang.

# Kurz vor Schluss noch ein wenig Logik

Kombinierte Suchen sind mit den Verknüpfungen

- „and“,
- „or“ oder
- „not“ möglich.

Wenn eine „and“- und eine „or“-Suche miteinander verbunden werden sollen, muss zuerst die „or“-Suche durchgeführt werden und danach der in der History gefundene kombinierte Suchbegriff mit dem nächsten in der „and“-Suche verknüpft werden

# Wie kann ich meine Suche sichern?

PubMed.gov

U.S. National Library of Medicine  
National Institutes of Health

Search: PubMed



RSS

Save search

Limits

Adv

("Metformin"[Mesh] AND "Pregnancy"[Mesh]) AND "Congenital Abnormalities"

Display Settings:  Abstract, Sorted by Recently Added

Send to:

Filter your results:



Limits Activated

23. Zu speichernde Arbeiten markieren

All (2)

Review (2)

Results: 2

24. Und an die virtuelle Pinnwand heften

[Cochrane Database Syst Rev.](#) 2009 Apr 15;(2):CD006105.

1. **Metformin treatment before and during IVF or ICSI in women with polycystic ovary syndrome.**

[Tso LO](#), [Costello MF](#), [Albuquerque LE](#), [Andriolo RB](#), [Freitas V](#).

Gynecology, Federal University of São Paulo (UNIFESP), Av. Dr. Altino Arantes, 865 - ap. 124, São Paulo, Vila Clementino, Brazil, 04042-034. [leotso@uol.com.br](mailto:leotso@uol.com.br)

## Abstract

**BACKGROUND:** The use of insulin-sensitising agents, such as metformin, in women with

Find related data

Database:


Find items

25. Clipboard anklicken

Display Settings:  Abstract, Sorted by Recently Added

Send to:

Filter your results:

 **Limits Activated:** Humans, Meta-Analysis, English, German

**Choose Destination**

- File
- Collections
- Order
- Clipboard
- E-mail
- My Bibliography

## Results: 2

[Cochrane Database Syst Rev. 2009 Apr 15;\(2\):CD006105.](#)

1. **Metformin treatment before and during IVF or ICSI in women with polycystic ovary syndrome.**

[Tso LO, Costello MF, Albuquerque LE, Andriolo RB, Freitas V.](#)

Gynecology, Federal University of São Paulo (UNIFESP), Av. Dr. Altino Arantes, 865 - ap. 124, São Paulo, Vila Clementino, Brazil, 04042-034. leotso@uol.com.br

### Abstract

**BACKGROUND:** The use of insulin-sensitising agents, such as metformin, in women with

### Find related data

Database:

Search: PubMed

RSS Save search Limits Adv

("Metformin"[Mesh] AND "Pregnancy"[Mesh]) AND "Congenital Abnormalities"

Display Settings: Abstract, Sorted by Recently Added

Send to:

Filter your results:

Limits Activated: Humans, Meta-Analysis, English, German

Choose Destination

- File
- Clipboard
- Collections
- E-mail
- Order
- My Bibliography

Add 1 items.

Add to Clipboard



Results: 2 Selected: 1

Cochrane Database Syst Rev. 2009 Apr 15;(2):CD006105.

1. **Metformin treatment before and during with polycystic ovary syndrome.**

Tso LO, Costello MF, Albuquerque LE, Andriolo RB, Freitas

Gynecology, Federal University of São Paulo (UNIFESP), Av. Dr. Altino Arantes, 865 - a  
Paulo, Vila Clementino, Brazil, 04042-034. leotso@uol.com.br

26. Zum Clipboard hinzufügen

Search: PubMed



RSS

Save search

Limits

Adv

("Metformin"[Mesh] AND "Pregnancy"[Mesh]) AND "Congenital Abnormalities"

Display Settings: Abstract, Sorted by Recently Added

Send to:



Clipboard: 1 item



1 item was added to the Clipboard.



Clipboard items will be lost after eight hours of inactivity. The maximum number of Clipboard items is 500.



Limits Activated: Humans, Meta-Analysis, English, German [Change](#) | [Remove](#)

Filter your results:

All (2)

[Review \(2\)](#)

27. Hier kann man sich das Clipboard ansehen

## Results: 2

[Cochrane Database Syst Rev. 2009 Apr 15;\(2\):CD006105.](#)

1. **Metformin treatment before and during IVF or ICSI in women**

[Find related data](#)

34

# Die gespeicherten Abstracts mit der Maus markieren und in Word kopieren oder direkt als PDF drucken

[Fertil Steril. 2006 Sep;86\(3\):658-63. Epub 2006 Jul 31.](#)

## **Pregnancy outcome after first-trimester exposure to metformin: a meta-analysis.**

[Gilbert C, Valois M, Koren G.](#)

[Motherisk Program, Division of Clinical Pharmacology and Toxicology, The Hospital for Sick Children, The University of Toronto, Toronto, Ontario, Canada.](#)

[Comment in:](#)

[Fertil Steril. 2007 May;87\(5\):1240; author reply 1240.](#)

### **Abstract**

**OBJECTIVE:** To conduct a systematic review and meta-analysis of pregnancy outcome after metformin use for polycystic ovary syndrome (PCOS), because the efficacy of metformin has been demonstrated in the treatment of infertility caused by PCOS, whereas the fetal safety of metformin has received very little attention, and the few studies addressing this issue are limited by small sample sizes.

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**INTERVENTION(S):** Exposure to metformin in the first trimester of pregnancy.

**MAIN OUTCOME MEASURE(S):** Major malformations.

# Alternativ können Sie sich das Ergebnis der Suche als e-mail selbst zusenden

NCBI Resources How To My NCBI Sign In

PubMed.gov  
U.S. National Library of Medicine  
National Institutes of Health

Search: PubMed Limits Advanced search Help

Search Clear

Display Settings: Abstract

Clipboard Remove all items

Send to: Clipboard: 1 item

**Choose Destination**

- File
- E-mail
- My Bibliography
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Fertil Steril. 2006 Sep;86(3):658-63. Epub 2006 Jul 31.

**Pregnancy outcome after first-trimester exposure to metformin: a meta-analysis**

Gilbert C, Valois M, Koren G.

Motherisk Program, Division of Clinical Pharmacology and Toxicology, The Hospital for Sick Children, The University of Toronto, Toronto, Ontario, Canada.

Comment in:  
Fertil Steril. 2007 May;87(5):1240; author reply 1240.

**Abstract**

**OBJECTIVE:** To conduct a systematic review and meta-analysis of pregnancy outcome after metformin use for polycystic ovary syndrome (PCOS), because the efficacy of metformin has been demonstrated in the treatment of infertility caused by PCOS, whereas the fetal safety of metformin has received very little attention, and the few studies addressing this issue are limited by small sample sizes.

**DESIGN:** Meta-analytic review.

**SETTING:** All pertinent studies in MEDLINE and EMBASE from 1966 to September 2004.

**PATIENT(S):** Women with PCOS or diabetes.

**INTERVENTION(S):** Exposure to metformin in the first trimester of pregnancy.

Effect of preconceptional metformin on abortion risk in polycystic ovaries [Fertil Steril. 2009]

Comparison of clomiphene citrate, metformin, or the combination of both for ovulation induction [Fertil Steril. 2007]

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# Ein wenig Selbstkritik...

Das in Folie 6 vorgestellte PICO-Schema wurde hier nicht ganz eingehalten.

Nach diesem Schema hätte es heißen müssen

**P**atient (Pregnant women)

**I**ntervention (Metformin)

**C**ontrol (Placebo)

**O**utcome (major malformations)

Wie oben beschrieben wurde der Begriff Placebo fallen gelassen.

# Zugegeben: 28 Arbeitsschritte sind sehr viel, aber...

- Anfangs dauert es lange, aber mit ein wenig Übung dauert diese ganze Suche keine 10 Minuten.
- Nehmen Sie sich bei den ersten Malen die Zeit, Schritt für Schritt aus dieser Präsentation identisch in Pubmed nachzuvollziehen.
- Es sind auch deshalb so viele Einzelschritte, weil jeder Schritt ganz genau in seine Einzelteile zerlegt dargestellt wurde.

Man/frau kann sich auch ein paar Schritte sparen und in diesem Fall einfach „Metformin AND pregnancy“ in die Pubmed-Suchmaske schreiben.

Das kann Zeit sparen.

Wir empfehlen aber den etwas umständlicheren Weg über MeSH-Begriffe allein deshalb, weil die nicht immer bekannt sind.

# Sie werden feststellen

- Zu vielen Themen gibt es keine gute Evidenz.
- Das muss nicht an Ihrer Suche liegen, sondern kann Fakt sein.
- Als DEGAM-Mitglied können Sie zusätzlich in der Cochrane-Library nachsehen.

In jedem Fall: viel Spaß bei der  
Pubmed-Recherche wünschen

Günther Egidi

und

Klaus Gebhardt