

EVIDENCE BASED MEDICINE

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Evidence Based Medicine



EVIDENCE

Integration of the most reliable scientific evidence into clinical practice, along with clinician's experience and the expectations of the patient

Evidence Based Medicine



Evidence Based Dentistry



Evidence Based Practice

Evidence Based Medicine

clinical practice



decision making = complex process



clinical examination



Evidence Based Medicine

integrates

best– strongest– reliable
scientific evidence



patients' expectations and wishes

individual professional experience



Evidence Based Medicine



Result:

- re-establish function
- re-establish esthetics
- patient satisfaction



- **longterm success**



Evidence Based Medicine

- targets restoring patient's health
- relies on individual professional experience of clinician
- helps everyday practice of clinician

based on basic and clinical research



Evidence Based Medicine



choosing scientific evidence
from numerous data available



choosing the appropriate data
critical view



apply

Evidence Based Medicine



„best”

„strongest”

„reliable”

scientific evidence

Evidence Based Medicine

most valuable evidence:

scientific publication

systemic review of
large numbers of
studies, basic and clinical research results



systematic review



meta-analysis



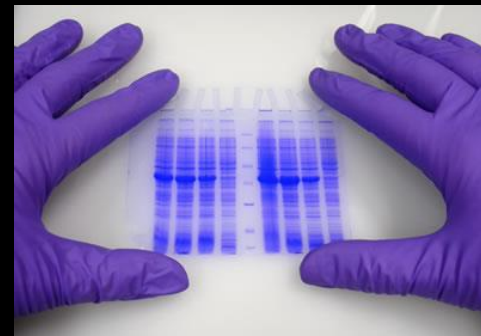
For evidence based medicine you must know :

➤ value

➤ level of evidence



scientific database



research, study results

SCIENTIFIC DATABASE

- **Primary scientific source**

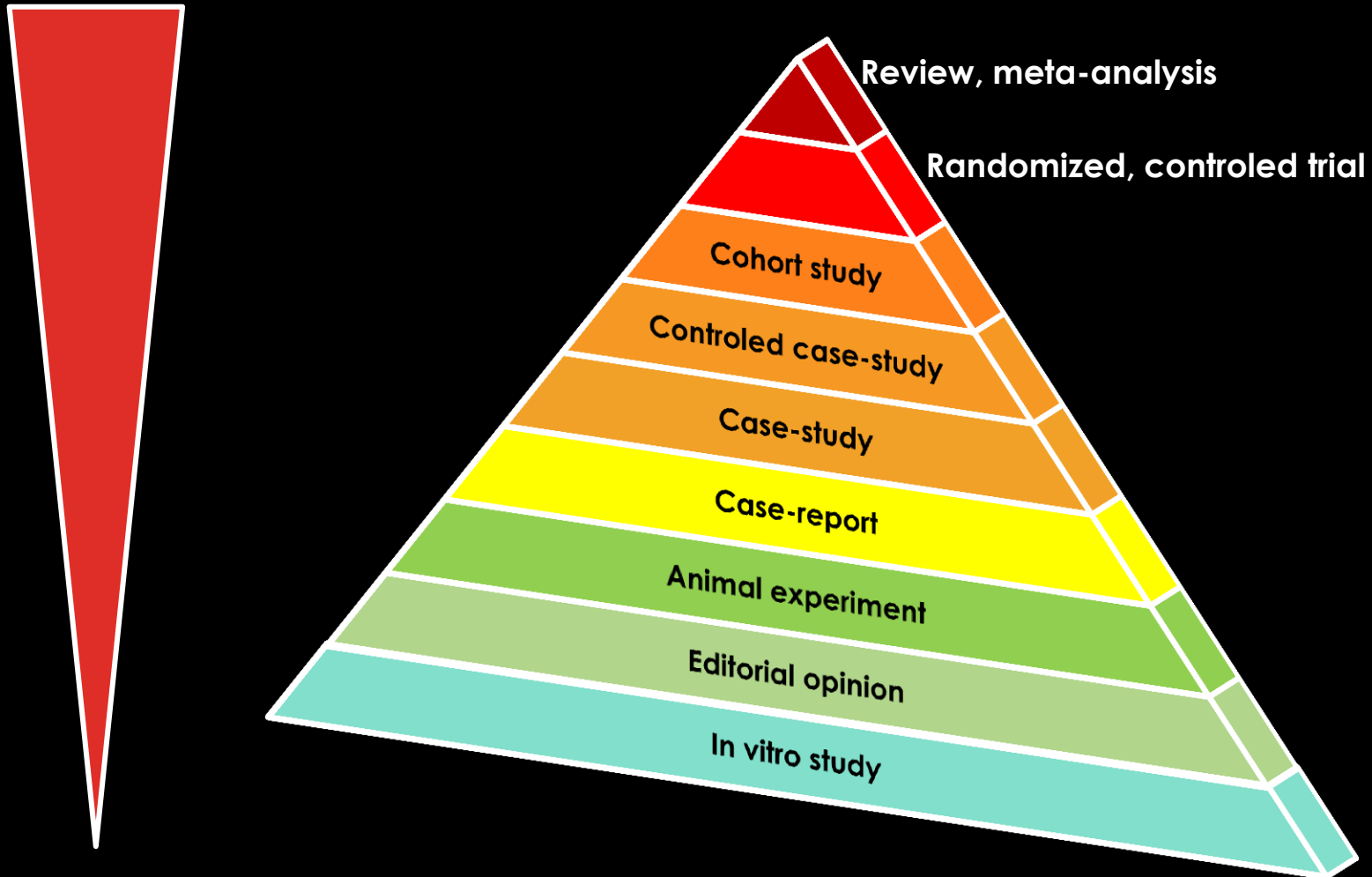
original publication of research and study

- **Secondary scientific source**

summary of primary scientific work

DETERMINING LEVEL OF EVIDENCE

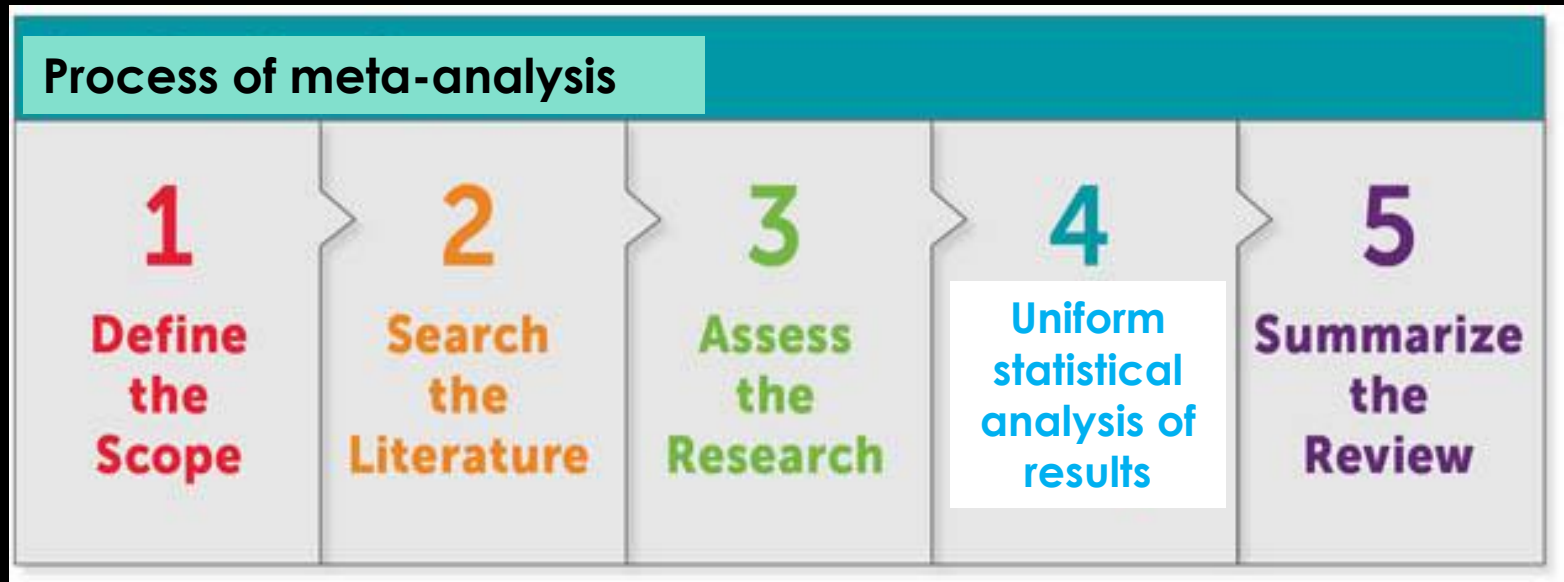
most valuable



Systemic review

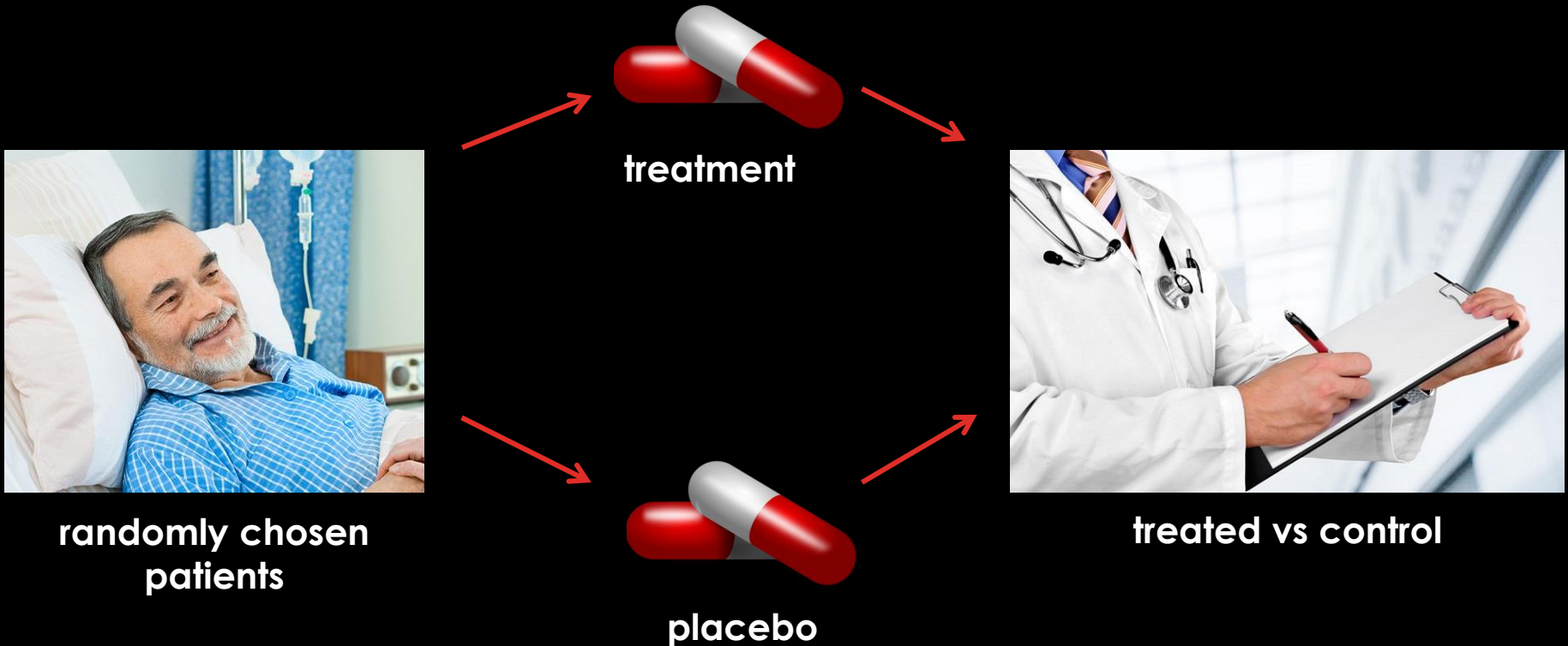


META-ANALYSIS



systemic review of articles and
uniform statistical analysis of results found

RANDOMIZED CONTROLLED TRIALS

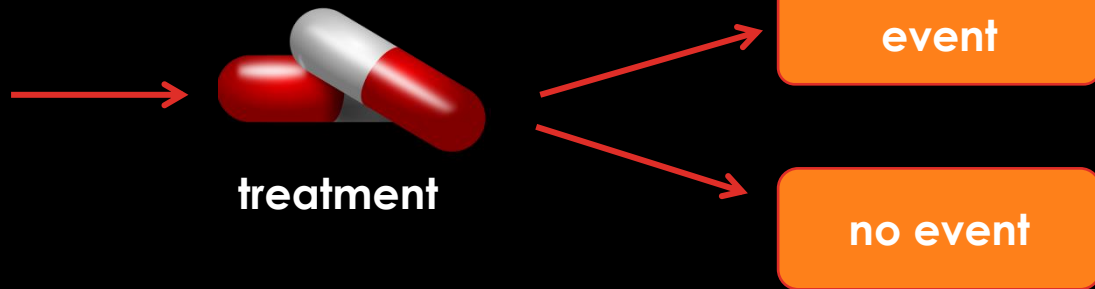


Randomized controlled trial: (RCT) A study in which people are allocated at random (by chance alone) to receive one of several clinical interventions. One of these interventions is the standard of comparison or control. The control may be a standard practice, a placebo ("sugar pill"), or no intervention at all.

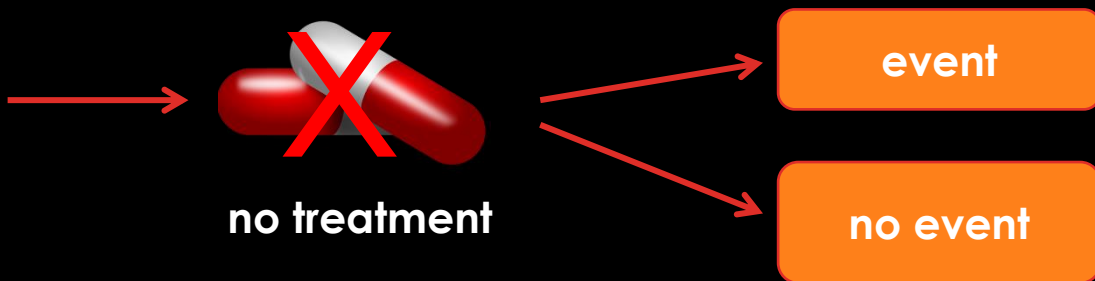
COHORT STUDY



exposed patient



control patient



Cohort study: For research purposes, a cohort is any group of people who are linked in some way. For instance, a birth cohort includes all people born within a given time frame. Researchers compare what happens to members of the cohort that have been exposed to a particular variable to what happens to the other members who have not been exposed.

CASE CONTROL STUDY



MRONJ patients



control

RCT of chr
apic.
period.



patient vs control

Case control study: Here researchers identify people with an existing health problem ("cases") and a similar group without the problem ("controls") and then compare them with respect to exposure.

CASE REPORT



patient



results

Case report: an article that describes and interprets an individual case. Case reports often describe: unique cases that cannot be explained by known diseases or syndromes, cases that show an important variation of a disease or condition, cases that show unexpected events that may yield new or useful information, cases in which one patient has two or more unexpected diseases or disorders

METHOD OF DETERMINING THE LEVEL OF EVIDENCE

Ref: based on Oxford Centre for Evidence-Based Medicine. 2009.

most valuable



1a	reviews, meta-analysis, meta-analysis of RCT	randomized control trials (RCT)
1b	good quality cohort studies	randomized control trials (RCT)
2a	good quality controled studies	homogen cohort studies
2b	cohort studies	
3	case controled studies	
4	case reports	professional opinions

SCIENTIFIC DATABASE ONLINE DATABASE

www.cochranelibrary.com/

The screenshot shows the Cochrane Library website in a browser window. The browser's address bar displays 'www.cochranelibrary.com'. The website header features the Cochrane Library logo and the tagline 'Trusted evidence. Informed decisions. Better health.' A search bar is located in the top right, with a search button and links for 'Browse' and 'Advanced Search'. A purple navigation bar contains links for 'Cochrane Reviews', 'Trials', 'More Resources', 'About', and 'Help'. The main content area is divided into several sections. On the left, a large image shows a woman in a purple shirt performing a yoga pose, with a blue bar chart overlay on the left side. Below this image is the text: 'Yoga treatment for chronic non-specific low back pain. Can it improve back-related function and reduce pain? Read the review'. To the right of this are two smaller featured articles: 'Nutrition: call to action. Read the editorial' and 'Migrant health. Read the Special Collection'. At the bottom, there is a section for 'Highlighted Reviews' with the title 'Combined inhaled beta-agonist and anticholinergic agents for emergency management in adults with asthma' by Scott W Kirkland, Christine Vandenberghe, Britt Voaklander, Taylor Nikel, Sandra Campbell, and Brian H Rowe, dated 11 January 2017. A small image of a man in a suit is visible in the bottom right corner. The browser's taskbar at the bottom shows various application icons and the system clock indicating 11:07 on 2017.01.16.

patient - Google-keresés | Home | Cochrane Library

www.cochranelibrary.com

Keresés

Cochrane.org

Search title, abstract, keyword

Browse Advanced Search

Cochrane Library

Trusted evidence.
Informed decisions.
Better health.

Cochrane Reviews ▾ Trials ▾ More Resources ▾ About ▾ Help ▾

Yoga treatment for chronic non-specific low back pain
Can it improve back-related function and reduce pain?
Read the review

Nutrition: call to action
Read the editorial

Migrant health
Read the Special Collection

Highlighted Reviews Editorials Special Collections

Combined inhaled beta-agonist and anticholinergic agents for emergency management in adults with asthma
Scott W Kirkland, Christine Vandenberghe, Britt Voaklander, Taylor Nikel, Sandra Campbell, Brian H Rowe
11 January 2017

onlineibrary.wiley.com/doi/10.1002/14651858.CD010671.pub2/full

HU 11:07
2017.01.16.



www.cochranelibrary.com/

The *Cochrane Library* is a collection of high-quality, independent evidence to inform healthcare decision-making. Systemic reviews and meta-analysis

preparation and maintenance of systematic reviews. There are more than 50 CRGs, based in research institutions worldwide, each focused on a specific topic of health research.

To produce high-quality, relevant, up-to-date systematic reviews and other synthesized research evidence to inform health decision making.

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

The image shows a screenshot of a web browser displaying the PubMed website. The browser's address bar shows the URL <https://www.ncbi.nlm.nih.gov/pubmed>. The page header includes the NCBI logo, navigation links for 'Resources' and 'How To', and a 'Sign in to NCBI' link. The main content area features a search bar with 'PubMed' selected in the dropdown menu and a 'Search' button. Below the search bar is a banner image of books and a tablet, with the text: 'PubMed comprises more than 26 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.'

The page is organized into several columns of links and featured content:

- Using PubMed:** PubMed Quick Start Guide, Full Text Articles, PubMed FAQs, PubMed Tutorials, New and Noteworthy.
- PubMed Tools:** PubMed Mobile, Single Citation Matcher, Batch Citation Matcher, Clinical Queries, Topic-Specific Queries.
- More Resources:** MeSH Database, Journals in NCBI Databases, Clinical Trials, E-Utilities (API), LinkOut.
- Latest Literature:** New articles from highly accessed journals: Arch Phys Med Rehabil (3), Biochem Biophys Res Commun (10), Biochim Biophys Acta (15), Fertil Steril (1), Gastroenterology (3), J Allergy Clin Immunol (3), Kidney Int (1).
- Trending Articles:** PubMed records with recent increases in activity: Translation from unconventional 5' start sites drives tumour initiation. Nature. 2017.; Hip joint biomechanics during gait in people with and without symptomatic femoroacetabular impingement. Gait Posture. 2016.; Rates and risk factors of injury in CrossFit: a prospective cohort study. J Sports Med Phys Fitness. 2017.; Could a Neuroscientist Understand a Microprocessor?
- PubMed Commons:** Featured comments: Evaluating reliability of neuropathic pain screening: R Badgett connects systematic review to questionnaire report. bit.ly/2iHRWTu Jan 13; Link between familial Parkinson's disease & protein mutation? M Farrer summarizes critique of genetics study. bit.ly/2ijrx0b Jan 12; Uncovering references for meta-analysis: @mlrethlefsen critiques reporting of search strategy & database use. bit.ly/2iNCTKu Jan 11.

The browser's taskbar at the bottom shows various application icons, and the system tray on the right indicates the date and time as 11:01 on 2017.01.16.

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

PubMed comprises more than 26 million citations for biomedical literature from MEDLINE, life science journals, and online books.

<https://www.ncbi.nlm.nih.gov> › NCBI › Literature

PubMed Central® (PMC) is a free full-text archive of biomedical and life sciences journal literature at the U.S. National Institutes of Health's National Library of .

medline:

<https://www.nlm.nih.gov/bsd/pmresources.html>

The image shows a screenshot of a web browser displaying the MEDLINE®/PubMed® Resources Guide page. The browser's address bar shows the URL <https://www.nlm.nih.gov/bsd/pmresources.html>. The page header features the NIH logo and the text "U.S. National Library of Medicine". A search bar is located in the top right corner. Below the header, there are navigation tabs for "Databases", "Find, Read, Learn", "Explore NLM", "Research at NLM", and "NLM for You". The main content area is titled "MEDLINE®/PubMed® Resources Guide" and includes a brief description of MEDLINE and PubMed, along with a link to "Return to PubMed". A list of resources is provided, including "News", "Overviews", "Journals", "Data Structure & Content", "Data Policies", "Searching PubMed", "Tools & Utilities", "MEDLINE Statistics", and "Help & Training Resources". The "NEWS" section contains four items: "PubMed New and Noteworthy", "NLM Technical Bulletin", "NLM-Announces", and "PubMed-Alerts". The "OVERVIEWS" section contains four items: "MEDLINE Fact Sheet", "PubMed Fact Sheet", "MEDLINE, PubMed, and PMC (PubMed Central): How are they different? (Fact Sheet)", and "MeSH Fact Sheet". The browser's taskbar at the bottom shows various application icons and the system clock indicating 11:05 on 2017.01.16.

patient - Google-keresés MEDLINE/PubMed Resour... +

https://www.nlm.nih.gov/bsd/pmresources.html

Beérkező levelek (2.28... mail SE Yahoo sign-in Google Neptun lib.semmelweis Semmelweis Egyetem ... Home - PubMed - NCBI

NIH U.S. National Library of Medicine

Databases Find, Read, Learn Explore NLM Research at NLM NLM for You

NLM Customer Support

Home > Bibliographic Services Division

MEDLINE®/PubMed® Resources Guide

MEDLINE® contains journal citations and abstracts for biomedical literature from around the world. PubMed® provides free access to MEDLINE and links to full text articles when possible. [Return to PubMed](#)

The following resources provide detailed information about MEDLINE data and searching PubMed. If you cannot find the information you seek, please contact [NLM Customer Service](#).

[News](#) | [Overviews](#) | [Journals](#) | [Data Structure & Content](#) | [Data Policies](#) | [Searching PubMed](#) | [Tools & Utilities](#) | [MEDLINE Statistics](#) | [Help & Training Resources](#)

NEWS

- PubMed New and Noteworthy:**
List of changes to PubMed by date, with links to the *Technical Bulletin*.
- NLM Technical Bulletin:**
The *NLM Technical Bulletin* is your main source for detailed information about changes and updates to NLM resources, including MEDLINE and PubMed.
- NLM-Announces:**
NLM e-mail list for announcing important information and changes to NLM systems including PubMed.
- PubMed-Alerts:**
An announcements-only e-mail list that notifies subscribers of **major system problems** with PubMed, the MeSH Database and the NLM Catalog (Monday through Friday, 8:30am to 5:00pm ET).

OVERVIEWS

- MEDLINE Fact Sheet:**
A brief description of MEDLINE, your database of biomedical and life sciences journal citations. See also [FAQ: Finding Medical Information in MEDLINE](#).
- PubMed Fact Sheet:**
A brief description of PubMed, part of the Entrez retrieval system and your free access to MEDLINE.
- MEDLINE, PubMed, and PMC (PubMed Central): How are they different? (Fact Sheet):**
A useful fact sheet to help you understand MEDLINE, PubMed, and PMC.
- MeSH Fact Sheet:**
To help you understand NLM's controlled vocabulary thesaurus. Helpful for searching NLM's databases. See also [Medical Subject Headings \(MeSH®\)in MEDLINE®/PubMed®: A Tutorial](#) and [Branching Out: The MeSH Vocabulary \(instructional video\)](#).

HU 11:05 2017.01.16



<https://www.nlm.nih.gov/bsd/pmresources.html>

MEDLINE® contains journal citations and abstracts for biomedical literature from around the world.

Evidence Based Practice

**systemic reviews
meta-analysis
high level evidence publications**

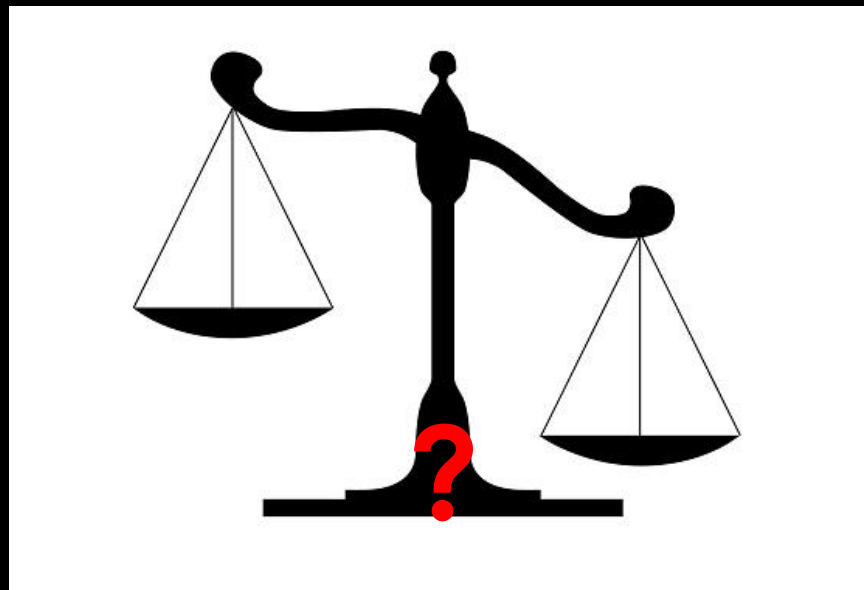


**professional
guidelines**



consensus reports

Which surface treatment gives better results when cementing indirect composite restorations?



Article types
Clinical Trial
Review
Customize ...

Text availability
Abstract
Free full text
Full text

PubMed Commons
Reader comments
Trending articles

Publication dates
5 years
✓ 10 years
Custom range...

Species
Humans
Other Animals

Clear all

Show additional filters

Format: Summary Sort by: Most Recent

Send to Filters: Manage Filters

Search results

Items: 1 to 20 of 81

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

Filters activated: published in the last 10 years. Clear all to show 137 items.

Clinical Performance of Indirect Composite Onlays as Esthetic Alternative to Stainless Steel

1. Crowns for Rehabilitation of a Large Carious Primary Molar.

Mittal HC, Goyal A, Gauba K, Kapur A.

J Clin Pediatr Dent. 2016;40(5):345-52. doi: 10.17796/1053-4628-40.5.345.

PMID: 27617373

Similar articles

Shear bond strength of indirect composite material to monolithic zirconia.

2. Sari F, Secilmis A, Simsek I, Ozsevik S.

J Adv Prosthodont. 2016 Aug;8(4):267-74. doi: 10.4047/jap.2016.8.4.267.

PMID: 27555895 Free PMC Article

Similar articles

Shear bond strength of a denture base acrylic resin and gingiva-colored indirect composite material to zirconia ceramics.

3. Kubochi K, Komine F, Fushiki R, Yagawa S, Mori S, Matsumura H.

J Prosthodont Res. 2016 Aug 16. pii: S1883-1958(16)30068-8. doi: 10.1016/j.jpor.2016.07.007. [Epub ahead of print]

PMID: 27543041

Similar articles

A 10-Year Clinical Evaluation of Resin-Bonded Fixed Dental Prostheses on Non-Prepared Teeth.

4. Piemjai M, Özcan M, Garcia-Godoy F, Nakabayashi N.

Eur J Prosthodont Restor Dent. 2016 Jun;24(2):63-70.

PMID: 27424337

Similar articles

Effect of surface treatment and aging on bond strength of composite resin onlays

Titles with your search terms

Effect of Laser Treatment on Surface Morphology of Indirect [J Lasers Med Sci. 2013]

Effect of surface treatment on bond strength between an indirect composite [J Oral Sci. 2012]

Surface treatment of indirect resin composite surfaces before cementat [J Prosthodont. 1997]

See more...

Find related data

Database: Select

Find items

Search details

(surface[All Fields] AND ("therapy"[Subheading] OR "therapy"[All Fields] OR "treatment"[All Fields] OR "therapeutics"[MeSH Terms] OR "therapeutics"[All Fields]) AND

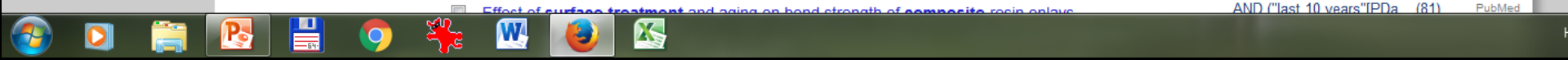
Search

See more...

Recent Activity

Turn Off Clear

surface treatment and indirect composite AND ("last 10 years"[IPDa] (81) PubMed



Effect of **surface treatment** and aging on bond strength of **composite** resin onlays.

Cura M, González-González I, Fuentes V, Ceballos L.

J Prosthet Dent. 2016 Sep;116(3):389-96. doi: 10.1016/j.prosdent.2016.02.016.

Effect of **indirect composite treatment** microtensile bond strength of self-adhesive resin cements.

Fuentes MV, Escribano N, Baracco B, Romero M, Ceballos L.

J Clin Exp Dent. 2016 Feb 1;8(1):e14-21. doi: 10.4317/jced.52754.

Effects of different **surface** treatments on bond strength of an **indirect composite** to bovine dentin.

Poskus LT, Meirelles RS, Schuina VB, Ferreira LM, da Silva EM, Guimarães JG.

Indian J Dent Res. 2015 May-Jun;26(3):289-94. doi: 10.4103/0970-9290.162884.

Shear bond strength of a self-etched resin cement to an **indirect composite**: effect of different **surface** treatments.

Harorli OT, Barutcugil C, Kirmali O, Kapdan A.

Niger J Clin Pract. 2015 May-Jun;18(3):405-10. doi: 10.4103/1119-3077.151783.

PMID: 25772927

indirect composite resin bonding: effect of various **surface** treatments.

Kirmali O, Barutcugil C, Harorli O, Kapdan A, Er K.

Scanning. 2015 Mar-Apr;37(2):89-94. doi: 10.1002/sca.21183.

Effects of **surface** treatment on micro shear bond strength of two **indirect composites**.

Moezizadeh M, Ansari ZJ, Fard FM.

Journal of Conservative Dentistry. 2012; 15(3):228-232

Further research in the bibliography of the articles found:

Evaluation of new methods for composite repair.

Swift EJ Jr, LeValley BD, Boyer DB.
Dental Materials. 1992; 8(6):362-5

Effect of a silane coupling agent on composite repair strengths.

Swift EJ Jr, Cloe BC, Boyer DB.
Am J Dent. 1994; 7(4):200-2

Surface treatment of indirect resin composite surfaces before cementation.

Hummel SK, Marker V, Pace L, Goldefogle M.
J Prosth Dent. 1997

Effects of grit blasting and silanization on bond strength of a resin luting cement to Belle GlassHP indirect composite.

Ellakwa AE, Shortall AC, Burke FJ, Marquis PM.
Am J Dent. 2003

Surface conditioning of a composite used for inlay/onlay restorations: effect on μ TBS to resin cement.

Valandro LF, Pelogia F, Galhano G, Bottino MA, Mallman A.
J Adhes Dent. 2007

Effect of three surface treatments on the adhesive properties of indirect composite restorations.

D'Arcangelo C, Vanini L.
J Adhes Dent. 2007

Effect of hydrofluoric acid etching on shear bond strength of an indirect resin composite to an adhesive cement.

Hori S, Minami H, Minesaki Y, Matsumura H, Tanaka T.
Dental Mat J. 2008

Only those articles were excluded, where only the abstract was available

WHICH SURFACE TREATMENT GIVES BETTER RESULTS WHEN CEMENTING INDIRECT COMPOSITE RESTORATIONS?

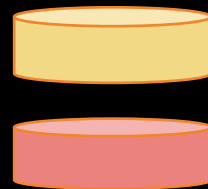
Effects of **surface** treatment on micro shear bond strength of two **indirect composites**.

Moezizadeh M, Ansari ZJ, Fard FM.

Journal of Conservative Dentistry. 2012; 15(3):228-232

Study protocol:

Gradia/SignumPlus **composite** discs were bound to Panavia (etch&rinse) dual-curing **composite cement**. Shear bond strength was studied.



Gradia	37% Ph + silane	Al₂O₃ 50µm 2mm 80PSI 10 sec + silane	ErCrYSGG 0/5W 25mJ 140 µsec 20Hz	ErCrYSGG 1W 50mJ 140 µsec 20Hz	ErCrYSGG 2W 100mJ 140 µsec 20Hz
Signum Plus					

Gradia	Al₂O₃ + silane
Signum Plus	ErCrYSGG/1W/50mJ

Why is there a difference?
Possibly the difference is in
filler content, but does not
say.

WHICH SURFACE TREATMENT GIVES BETTER RESULTS WHEN CEMENTING INDIRECT COMPOSITE RESTORATIONS?

Effects of different **surface** treatments on bond strength of an **indirect composite** to bovine dentin.

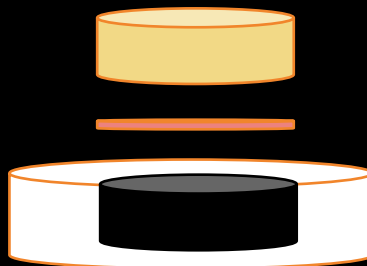
Poskus LT, Meirelles RS, Schuina VB, Ferreira LM, da Silva EM, Guimarães JG. Indian J Dent Res. 2015 May-Jun;26(3):289-94. doi: 10.4103/0970-9290.162884.

Study protocol:

150 **dentin** discs were prepared from bovine teeth. Cavity was prepared then a semi-direct **composite** disc was made into the cavity. Final polymerization was carried out in photopolymerizing chamber.

Dentin discs were treated: 37% orthophosphoric acid 15 sec, then application of **activator, then primer, then catalyst.**

The composite discs were cemented in the cavity by RelyX Arc dual-curing cement.



No treat- ment	Al ₂ O ₃ 50µm 20mm 2 Bar 10 sec	Al ₂ O ₃ 50µm 20mm 2 Bar 10 sec = + silane	10% HF 90 sec	10% HF 90 sec + silane	Al ₂ O ₃ + 10% HF	Al ₂ O ₃ + 10% HF + silane
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<

96% ethanol	ethanol + silane	Al ₂ O ₃ + ethanol	Al ₂ O ₃ + ethanol + silane	24% H ₂ O ₂	H ₂ O ₂ + silane	Al ₂ O ₃ + H ₂ O ₂	Al ₂ O ₃ + H ₂ O ₂ + silane
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- silane after air abrasion does not significantly change adhesion
- silane after HF significantly changes adhesion
- HF treatment does not increase shear bond strength, it softens matrix
- % is important, 10% here is too much
- ethanol, H₂O₂ treatment of air abraded surface increases adhesion

WHICH SURFACE TREATMENT GIVES BETTER RESULTS WHEN CEMENTING INDIRECT COMPOSITE RESTORATIONS?

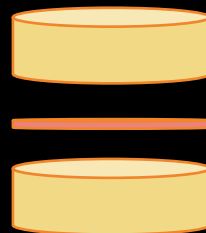
Effect of **surface treatment** and aging on bond strength of **composite** resin onlay

Cura M, González-González I, Fuentes V, Ceballos L.

J Prosthet Dent. 2016 Sep;116(3):389-96. doi: 10.1016/j.prosdent.2016.02.016.

Study protocol:

Filtek Z250 **composite** discs were cemented to each other by RelyX Ultimate dual-curing composite **cement**. Surface treatment was preformed only on one disc. Shear bond strength was determined between composite disc and cement after 24h and 6 months aging.



Al ₂ O ₃ 27µm 10mm 0,25MPa 10 sec + adhesive	Al ₂ O ₃ 27µm 10mm 0,25MPa 10 sec + silane + adhesive	Al ₂ O ₃ 27µm 10mm 0,25MPa 10 sec + adhesive w/silane	Triboche- mical silicate treatment + adhesive	Triboche- mical silicate treatment + silane + adhesive	Triboche- mical silicate treatment + adhesive w/silane
--	---	--	--	---	--

24h	Al ₂ O ₃ + adhesive	Al ₂ O ₃ + adhesive w/silane
6 months	Al ₂ O ₃ + adhesive w/silane	Tribochemical + adhesive w/silane

Adhesive w/ silane: authors think that success is not due to silane, but MDP monomernek. A monomer, that inhibits the degradation of hybrid layer.

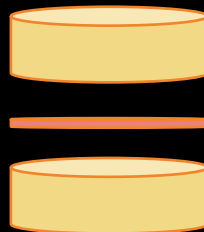
WHICH SURFACE TREATMENT GIVES BETTER RESULTS WHEN CEMENTING INDIRECT COMPOSITE RESTORATIONS?

Effect of hydrofluoric acid etching on shear bond strength of an indirect resin composite to an adhesive cement.

Hori S, Minami H, Minesaki Y, Matsumura H, Tanaka T.
Dental Mat J. 2008

Study protocol:

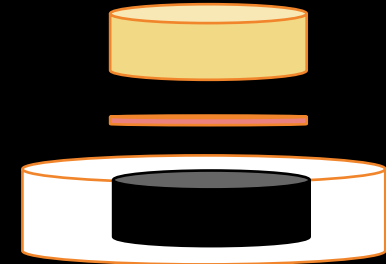
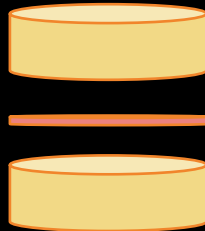
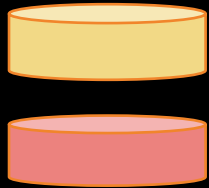
Estenia C&B **composite** discs were cemented to each other with dual-curing Panavia composite **cement**. Surface treatment was performed on both discs. Shear bond strength was determined between both discs and cement after 24h aging.



no treatment	Al ₂ O ₃ 50µm ?mm 0,2MPa 5 sec	Al ₂ O ₃ 50µm ?mm 0,2MPa 5 sec < + silane	1% HF 30 sec	1% HF 5 min	1% HF 10 min	1% HF 5 min + silane
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According to authors an only 1% HF treatment for 5 min is better than air abrasion. Reason is that in glass filled composites deeper porus are created by acid etch, than by abrasion. Silane treatment did not significantly increase bond strength.

SUMMARY OF RESULTS FOUND



Al_2O_3 + S
ErCrYSG G 1W/50mJ

Al_2O_3 + adh	Al_2O_3 + S adh	Tribo + S adh
-------------------------------------	---------------------------------------	---------------------

1% HF 5 min

Al_2O_3 + eth	Al_2O_3 + eth + S	Al_2O_3 + H_2O_2 + S
-------------------------------------	---	--

CONCLUSION

- studied surfaces are not the same: composite-composite/dentin-composite
- used adhesive technique is not same: etching time, adhesive type
- articles mostly use one type of composite
- filler types are not distinguished
- microporus is made by:
 - airabrasion - removes matrix
 - HF acid - removes glass and ceramic filler particles
 - tribochemical treatment - creates silicate coating
- these are *in vitro studies*: evidence level is low
- more meticulously planned studies and clinical studies are needed

Save Remove Combine with: AND OR Deduplicate

Save All Edit View Saved

Basic Search | Find Citation | Search Tools | Search Fields | **Advanced Search** | Multi-Field Search

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