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Results of meta-analysis should be treated critically

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Abstract

Proton pump inhibitors use increases hepatic encephalopathy risk in patients with liver disease.

Key words: Proton pump inhibitor; Hepatic encephalopathy; Liver disease

Core tip: Proton pump inhibitors (PPIs) have been widely used in patients with liver disease. In general, PPIs are considered safe. However, accumulating evidence indicates that long-term and excessive use of PPIs without clear indication can lead to serious adverse reactions. Some epidemiological studies have investigated the association of PPI use with the risk of hepatic encephalopathy. However, the results are controversial. The study reveals that

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Results of meta-analysis should be treated critically



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Meta-analysis should only be performed to synthesize **results** from different trials if the trials have conceptual homogeneity.[1,6,9] The trials must involve similar patient populations, have used similar treatments and have measured **results** in a similar fashion at a similar point in time.

The 3-min appraisal of a meta-analysis

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3004078>

One of the most important steps in **critically** appraising a **meta-analysis** is determining the methodological quality of the study design and the level of bias incorporated in the **analysis**. One key factor affecting the quality of **meta-analysis** is the **quality** of the studies that are included in the **meta-analysis** ...

What makes a good systematic review and meta-analysis ...

<https://academic.oup.com/bja/article/117/4/428/2410577> ▾

Oct 17, 2016 · **Meta-analysis** is the statistical method used to combine **results** from the relevant studies, and the resultant larger sample size provides greater reliability (precision) of the estimates of any **treatment effect**. 1 **Clinical decisions** should be based on the totality of the best evidence and not the **results** of individual studies. The value and credibility of an SR depends on the importance of the ...

Cited by: 8

Author: A.M. Møller, P.S. Myles

Publish Year: 2016

Systematic Reviews and Meta-analysis Flashcards | Quizlet

<https://quizlet.com/54788134/systematic-reviews-and-meta-analysis-flash-cards> ▾

Meta-analysis is a statistical technique for combining the **results of independent**, but similar, studies to obtain an **overall estimate of treatment effect**. While all **meta-analyses** are based on systematic review of literature, not all systematic reviews necessarily include **meta-analysis**.

Interpretation of random effects meta-analyses | The BMJ

<https://www.bmj.com/content/342/bmj.d549> ▾

Feb 10, 2011 · **Meta-analyses** use either a fixed effect or a random effects **statistical** model. A fixed effect **meta-analysis** assumes all studies are estimating the same (fixed) **treatment effect**, whereas a random effects **meta-analysis** allows for differences in the **treatment effect** from study to study.

Cited by: 983

Author: Richard D Riley, Julian P T Higgins, Jonat

Meta-a



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Influence of neutropenia on mortality of critically ill ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6280476>

Dec 04, 2018 · The study objective was to assess the influence of neutropenia on outcome of **critically** ill cancer patients by meta-analysis of individual data. Secondary objectives were to assess the influence of neutropenia on outcome of **critically** ill patients in prespecified subgroups (according to underlying tumor, period of admission, need for mechanical ...

Cited by: 3

Author: Quentin Georges, Elie Azoulay, Elie Azo...

Publish Year: 2018

The 3-min appraisal of a meta-analysis

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3004078>

When **critically** appraising a meta-analysis the last step should be determining the **clinical applicability** of the results. Sometimes the results of a meta-analysis may show statistical significance, but may have no importance to practice.

Diagnosis of elevated intracranial pressure in critically ...

<https://www.bmj.com/content/366/bmj.l4225> ▾

Jul 24, 2019 · Objectives To summarise and compare the accuracy of physical examination, computed tomography (CT), sonography of the optic nerve sheath diameter (ONSD), and transcranial Doppler pulsatility index (TCD-PI) for the diagnosis of elevated intracranial pressure (ICP) in **critically** ill patients. Design Systematic review and meta-analysis. Data sources Six databases, including Medline, ...

Cited by: 3

Author: Shannon M Fernando, Alexandre Tran, W...

Publish Year: 2019

Influence of neutropenia on mortality of critically ill ...

<https://ccforum.biomedcentral.com/articles/10.1186/s13054-018-2076-z> ▾

Feb 02, 2017 · The study objective was to assess the influence of neutropenia on outcome of **critically** ill cancer patients by meta-analysis of individual data. Secondary objectives were to assess the influence of neutropenia on outcome of **critically** ill patients in prespecified subgroups (according to underlying tumor, period of admission, need for mechanical ventilation and use of granulocyte colony ...

Cited by: 3

Author: Quentin Georges, Elie Azoulay, Elie Azo...

Publish Year: 2018

Meta-analyses: How to critically appraise them? | SpringerLink

<https://link.springer.com/article/10.1007/s12350-017-0898-8> ▾