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Critical Appraisal Worksheets

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Worksheets

- Different kinds of research are :
 - different in terms of methodological validity
 - how they present their results
 - how they translate to an individual patient
- http://www.cebm.net/critical_appraisal.asp
 - At CEBM : <http://www.cebm.net/index.asp>
 - You can access worksheets by clicking the links, or you can download the whole lot as a PDF



Different kinds of research

- Primary Studies

- Therapy
- Diagnosis
- Prognosis
- Harm / Etiology
- Systematic Reviews
 - http://intmedweb.wfu.edu/mwilson_products/critical/index.html

- Primary Studies

- Systematic Review
- Decision Analysis
- Practice Guidelines
- Economic Analysis
- Health Services Research
- Clinical Utilization Review



CASP

- Critical appraisal is the process of deciding whether a piece of research can help you in answering your clinical question
- There are three questions you need to ask about any kind of research:
 - Is it valid?
 - Is it important?
 - Is it applicable to the patient?



Diagnosis

- *Validity check*
 - Did the study include an independent blinded comparison with gold standard?
 - Did the patient sample include an appropriate spectrum of patients similar to those found in the general practice?
 - Was the gold standard applied to all case?
- *What are the results?*
 - Can you calculate the LR₊, LR₋?



Therapy

- Validity check

- Were the assignment of patients to treatment groups randomized?
- Were all enrolled patients accounted for at the conclusion of the study?
- Intention-to-treat analysis: yes/no?
- Was the study double-blinded: yes/no?
- Were the treatment groups similar at the start of the study?

- What are the results?

- Can you calculate the NNT, NNH?
- What is the relative risk, odds ratio?
- How precise are these estimates (CI)?



Harm

- *Validity check*
 - Was exposures and outcomes measured similarly in the groups compared?
 - Were the comparison groups similar in outcome in all respects except for the variable studied?
 - Was the follow-up adequate?
 - Was there a temporal and dose relationship?
- *What are the results?*
 - What is the relative risk, odds ratio?
 - How precise are these estimates (CI)?



Prognosis

- *Validity check*

- Was the patient sample representative at a well-defined point in the course of the disease or disorder?
- Was the length of follow-up adequate?
- Was the follow-up complete?

- *What are the results*

- http://evidence.ahc.umn.edu/fundamentals_of_ebhc_practice.htm



例：Systematic Reviews 3-1

- **Are the results of this systematic review valid?**
 - Did this review address a focused clinical question?
 - Were the criteria for article inclusion appropriate?
 - Is it unlikely that relevant studies were missed?
 - Was the validity of the included studies appraised?
 - Was the assessments of studies reproducible?
 - Were the results similar from study to study?



例：Systematic Reviews 3-2

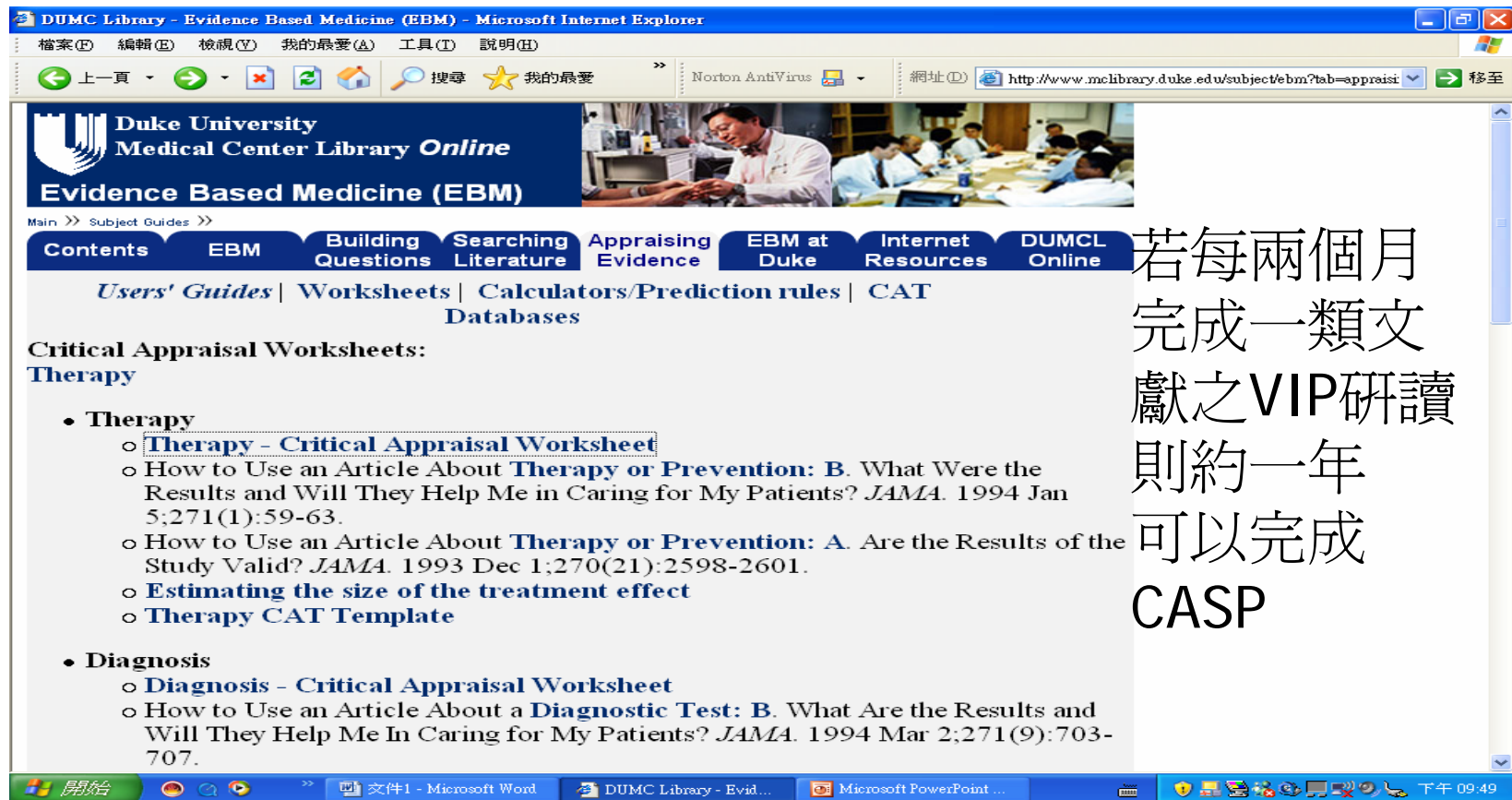
- What Are the Results?
 - What are the overall results of the review?
 - How precise are the results?



例：Systematic Reviews 3-3

- Will the Results Help Me In My Patient Care?
 - Can the results be applied to my patients?
 - Were all clinically important outcomes considered?
 - Are the benefits worth the harms and costs?

結論：Based on the JAMA User Guides series



DUMC Library - Evidence Based Medicine (EBM) - Microsoft Internet Explorer

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Users' Guides | Worksheets | Calculators/Prediction rules | CAT Databases

Critical Appraisal Worksheets:
Therapy

- **Therapy**
 - [Therapy - Critical Appraisal Worksheet](#)
 - How to Use an Article About **Therapy or Prevention: B**. What Were the Results and Will They Help Me in Caring for My Patients? *JAMA*. 1994 Jan 5;271(1):59-63.
 - How to Use an Article About **Therapy or Prevention: A**. Are the Results of the Study Valid? *JAMA*. 1993 Dec 1;270(21):2598-2601.
 - [Estimating the size of the treatment effect](#)
 - [Therapy CAT Template](#)
- **Diagnosis**
 - [Diagnosis - Critical Appraisal Worksheet](#)
 - How to Use an Article About a **Diagnostic Test: B**. What Are the Results and Will They Help Me In Caring for My Patients? *JAMA*. 1994 Mar 2;271(9):703-707.

若每兩個月完成一類文獻之VIP研讀則約一年可以完成CASP

開始 文件1 - Microsoft Word DUMC Library - Evid... Microsoft PowerPoint... 下午 09:49