Improving journal club presentations, or, I can present that paper in under 10 minutes

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Do you run a journal club? A helpful insight from someone at our recently finished 3 day EBM workshop in Oxford was that many journal clubs are boring because the articles are quickly trashed as poor research and nothing changes. Since only 1 in 20 articles passes the EBM journal’s validity criteria, this is likely to occur 19 out of 20 times for journal articles that simply look “interesting.” So for journal clubs you might like to consider either articles from EBM or at least make sure that you screen articles for basic validity before the session. In this issue there is also some good advice from Schwartz on how to make a clear succinct presentation at journals clubs. Along with good food and coffee, we think this should be mandatory!

We note, though, that our current criteria of requiring a randomised trial for all treatments, may have to be slightly modified. One of the editors recently published an article on when randomised trials are not needed (BMJ 2007 Feb 17;334:349–51). This was triggered by his successful use of the "parent kiss" method to remove a bead lodged in a young patient’s nose. It seems some treatments have such a rapid and dramatic effect that trials are not needed to pick the treatment signal from the prognostic noise. But currently the list of such dramatic treatments is pretty short.

EDITORS’ CHOICE
To keep our practice up to date, it is helpful to ask with each issue of EBM what things you might start doing and what things you might stop? If I had to pick 1 change to make from this issue, it is the use of the ABCD score, which tells us who needs urgent investigation after a transient ischaemic attack (TIA). The likelihood of stroke is very high in the first days and weeks after a TIA, and reducing risk then is vital. We have previously published an evaluation of the ABCD rule, but Johnston et al have further validated the score and confirmed it is highly predictive. Of course, this needs to link to a rapid evaluation service, so you might need a little local lobbying also.

Among the others I will try out is teaching male patients with lower urinary tract symptoms a few simple things for self management (Van der Muelen). The intervention has 1 of our better NNTs, and is relatively simple and harmless. Also, although it won’t directly change my practice, it’s useful to know that SSRIs can start to work in depression within a week, with a close to linear build up of response over the first 6 weeks.

Unfortunately, some widely used interventions seem to have small or non-existent benefits. What appears to be the definitive trial of whether to start mammographic screening at 40 years of age or later didn’t find a statistically significant reduction in breast cancer mortality (Moss). Similarly, a large trial of tympanostomy tubes did not show improvement in language outcomes (Paradise). I am sure neither of these will stop the arguments though.

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Improving journal club presentations, or, I can present that paper in under 10 minutes

Fifteen years ago we sought to develop a method for teaching residents how to make lean, pithy journal club presentations. Our aim was to help them distill an article down to its core while systematically reviewing its validity and telling a compelling story. Others have created successful journal clubs by explicitly linking the educational experience to questions raised in caring for patients.1

Brief article presentations are structurally similar to the brief case presentations we do all the time. On work rounds, morning report, or sign-out, the goal is to communicate the essential information about a patient in a concise, mostly standardised format that is easily digested by the listener. We reasoned that, just as learners progress from meandering and imprecise case presentations on clinical clerkships to brief, utilitarian sign-outs as senior residents, journal club presenters can learn to efficiently convey the essence of an article.

We introduce this model of journal club presentation to medical residents in a small group workshop early during internship and then deepen residents’ skills during our clinical epidemiology course in the second year.2 Residents’ skills are reinforced and refined throughout residency at a weekly journal club attended by 10–20 residents, fellows, and faculty.
We use the following 10 step guideline to help presenters increase efficiency in assessing a study’s validity and results and to increase confidence in limiting a presentation to the core essentials. Faculty members model the process and residents learn through reflective practice.

1. Describe the case or problem that attracted you to this paper

Start your article presentation with a brief case presentation, or briefly explain how the article is relevant to a patient or problem you are considering. This helps listeners more fully engage with your presentation and makes it more of a story.

For example, “An otherwise healthy 68 year old man came to see me after he suffered a transient ischaemic attack (TIA) and I wondered if he should be on a statin even though his risk of cardiac disease was low.”

2. Explain how you came across this article

Very briefly describe the search strategy you used to track down this particular article.

“I found this paper by searching Medline using the terms Cerebrovascular accident, Hydroxymethylglutaryl-CoA reductase inhibitors, and the Clinical Query for therapy (maximising specificity) which identified 9 articles.”

3A. Describe the study ...

In a case presentation we start with some standard descriptors of the patient followed by the chief complaint or statement of the clinical problem. For example:

- This is a 55 year old male smoker from Bangladesh who presented with 2 hours of burning chest pain and is admitted as a rule out.

When presenting an article, we can think of some standard descriptors. For example:

- What type of question was asked—for example, diagnostic, therapeutic, prognostic, aetiologic, or economic?
- What type of study (method) was used—for example, randomised controlled trial, retrospective cohort, case control, meta-analysis, cross-sectional, descriptive, decision analytic, or cost effectiveness?
- Where was the study done (if relevant)—for example, multicentre, veteran affairs centre, population based, Antarctica, New York City, academic medical centre, or subspecialty clinic?
- Any other outstanding features—for example, well known author or first study of its kind.

So we might start by saying, “This was a multinational, randomised, controlled trial of therapy, and the first study designed to answer the question …”

3B. ... and the research question:

The chief complaint of an article is the research question or hypothesis to be tested. A well built research question has 4 basic components (PICO—see section 5 below):³

- Population—who was studied?
- Intervention or exposure—what therapy, risk factor, tests, etc.?
- Comparison or control—what alternative to intervention or exposure?
- Outcome—clinical, functional, economic, etc.?

“Does high dose atorvastatin for 5 years reduce the incidence of stroke among patients with recent stroke or TIA and no known coronary heart disease?”

4. State the importance/relevance/context of this question

Following this 1 line description of the study and statement of the question, concisely state the importance of this question. This information can usually be found in the author’s introduction where they put their study in the context of other literature. This context can be described in 1-3 sentences.

“Therapy with statins reduces the risk of stroke among patients with coronary heart disease and those at increased risk of cardiovascular (CV) disease. No studies thus far, however, show that statin treatment decreases the risk of recurrent stroke among otherwise healthy patients with a history of stroke or TIA.”

5. Describe the methods by giving more detail on the question components

Following this brief background, 1 way of briefly describing the methods is to give a bit more detail on the Patients, Intervention, Comparison, and Outcomes (PICO) related to the question:

P—The study included 4371 patients, 60% men with an average age of 63 years and mean LDL cholesterol of 133 mg/dl. All patients had a recent stroke (69%) or TIA (31%). Those with atrial fibrillation, embolism from other cardiac sources, and subarachnoid haemorrhage were excluded.”

IC—“Atorvastatin 80 mg daily or identical placebo.”

O—“After a median of 4.9 years of follow up, the primary outcome was incidence of fatal or non-fatal stroke, and all cause death. Secondary end points include a composite end point of stroke or TIA, major coronary event, major CV event, acute coronary event, any coronary event, revascularisation, and any CV event.”

6. State your answers to the critical appraisal questions on validity

Next, briefly answer the appropriate critical appraisal questions on validity using the JAMA users’ guides to the medical literature⁴ and elaborate with some explanation, questions, or concerns if needed. Although it is a bit formulaic to go through each question, it is a good habit to develop, and use of the GATE frame makes it easier.” Remember, if you suspect bias, consider not only its possible presence, but also its direction, magnitude, and impact on the study’s conclusions; not all flaws are fatal. Be cautious to not get lost in the statistics/analysis section. Remember, “Statistics are a tool while study methods rule!”

For a study of the efficacy of therapy, these questions apply:

- Did the experimental and control groups start out with a similar prognosis?
  - Were patients randomized? YES.
  - Was randomisation concealed? YES.
  - Were patients analysed in the groups to which they were randomised? YES—intention to treat analysis.
  - Were groups similar re known prognostic factors? YES—see table 1.
- Did the experimental and control groups retain a similar prognosis after the study started?
  - Were patients, clinicians, and outcome assessors aware of group allocation? NO—all were blinded to random allocation.
  - Was follow up complete? YES and similar in each group.
“Atorvastatin may modestly reduce the risk of recurrent cerebrovascular events in patients with recent ischaemic cerebrovascular accident or TIA. I will offer this medication to such patients but will still focus more on those at higher risk of cardiac events.”

10. FINALLY, PREPARE A 1 PAGE SUMMARY OF THE OUTLINE ABOVE AS A HANDOUT

The summary will serve as your notes for the presentation and will help guide the group’s attention. It also provides a storable record of the article, similar to Critically Appraised Topics or CATs.7

Believe it or not, you can do all this in 10 minutes easy, 5 minutes with very tight editing, and 2–3 minutes hitting just the highlights.

These guidelines have dramatically improved the enthusiasm for, quality of, and attendance at our journal clubs, which have now been running continuously for more than 15 years. Residents are expected to present the paper in 10 minutes, provide a concise 1 page summary using the outline above, and lead a 20 minute discussion on the clinical and methodological issues. As a result, residents have improved both their presentation and critical appraisal skills. In our experience, this approach, familiar to residents because they are parallel to patient case presentations, is easily learned and portable. Developed for a smaller group of primary care residents, the model is now used for all medical residents and fellows. Slides from these workshops are available at www.evidence-basedmedicine.com. We believe this model has contributed to the long running success of our journal club and made it a lively, relevant, and fun way to simultaneously explore methods and medicine.

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