What makes evidence-based journal clubs succeed?

Do you catch up on valuable rest time once a week at your local journal club? Or doze while somebody presents an article that has been allocated to them, without reference to “question,” “search strategy,” or “assessing performance”? While the rest may bring health benefits, it is unlikely to advance the quality of care. Evidence-based journal clubs, however, have documented benefits.

Having made most possible “errors,” we’d like to share some tricks and traps that we think make evidence-based journal clubs work or not. We have gathered our information from personal experience, a systematic search of the literature, and stories told by colleagues and members of the evidence-based-healthcare mailing list. One of us (PG) runs an evidence-based journal club in general practice; the other (RSP) runs an evidence-based journal club in the paediatric department of a teaching hospital and facilitates journal club meetings for pharmacists. While running these disparate events, we, quite separately, stumbled on many of the same tricks and traps, many of which are supported by the findings of a large survey of the factors that predict the life span of (any) journal club.

ORGANISING JOURNAL CLUB SESSIONS

The structure of successful evidence-based journal clubs varies. Commonly, the clubs run in a cycle. Our own medical journal clubs run over the same 2-session cycle (see figure—the cycle may be weekly, but other timeframes are possible). The last 10–15 minutes of the session are spent discussing participants’ real clinical problems and defining the structured clinical questions that would help address these problems. A process of moderated “voting” on the questions selects the most popular ones, and then someone is assigned the literature search as homework. The first 45 minutes of the next session are then spent appraising and applying the papers felt to represent the best answers to these questions raised in the previous session. If there is a wide range of studies, the work may have been spread across several sessions.

Initially, we ran the clubs over 3 cycles (question, search, and appraisal) (figure), and each cycle included a review of the search strategy. However, this led to boredom, particularly if there were problems on the way. Assigning a facilitator to help during the week (between sessions) helped a little. Searching may be the weakest part of the evidence-based journal club experience, however, so it could be that this is counterproductive.

There are many variations on this structure. Some clubs run on a 3 or 4 session cycle (with different combinations of question generation, search, appraisal, and presentation of a critically appraised topic [CAT]). Other clubs decide which question from which study will be discussed before the session, then distribute the article and critical appraisal worksheet to the participants. Each mini group of participants (2–3 people) is allocated a part of the appraisal as their task, and the club begins by collating the answers to kick start discussion. Another hospital-based group runs a “reverse journal club”: the presenter asks a clinical question and then asks what type of study design would best answer this. This question and answer process builds the framework to critically appraise the chosen article. The pre-selected paper is then handed out, and the appraisal is virtually complete.

Yet another approach is to use a presentation where the speaker guides their audience from the clinical scenario, through the question formulation and search strategy, to an appraisal and generates a CAT, which is then made available on a website. Finally, a recent development is a “virtual” journal club on the web, for which a good example exists in paediatric critical care. In this model, participants sign up to do the primary appraisal of an article, and the discussion is run with moderated comments attached to the appraisal. The great advantage of this model is the number, diverse locations, and time zones of the participants.

ASSIGNING ROLES

Running a journal club involves allocating several roles. In addition to the presenter, the group needs a facilitator to help the discussion along and focus the group on its task. A scribe is helpful in recording the discussions of the group, including creating a CAT. A host may be helpful to introduce new members (and pass around snacks!). Someone needs to provide administrative support—providing copies of the article and critical appraisal sheets. How these roles are filled differs among groups, but the most successful groups have a fixed facilitator who organises the other roles. Some groups will have a flipchart scribe who facilitates discussion; others have a member using a data projector and CATmaker (http://www.cebm.net/downloads.asp) who takes notes and builds the group CAT. The nature of the group (eg, hierarchies, location, critical appraisal knowledge, and skill mix) affects how the roles are distributed.
TRAPS
We found a few things didn’t work in trying to get an evidence-based journal club working, and a number of things that probably helped a lot. One thing that we, and others, have found difficult is trying single-handedly to induce a traditional journal club to perform critical appraisals as a small-group learning session. In 1 case, humiliation followed. Enthusiasm needs to be combined with facilitation skills and an appropriate structure. Especially with clinicians who are new to the processes of evidence-based medicine, pressure to finish the article led people to skip the appraisal and focus on results as they would have in a traditional setting.

Sending out articles before the journal club seems to have mixed results, but more negative ones than positive. In our experience, expecting people to independently read articles before a regular meeting (and bring their copy with them) is a waste of time and paper. At most, 20% read the paper. If you then leave time for the rest of the people to scan the paper, the ones who have already read it get annoyed. If you leave no time to read the study, then most people are left adrift (and are less likely to return).

TRICKS
On the other hand, a number of tricks seemed to help. Answering individuals’ own questions is central to both education and motivation. But make sure in your early sessions that you have a “planted” scenario or question in your group. Early on, people seem keen to come up with questions focused on the rare, unusual, and wonderful diagnoses they have bumped into rather than questions about their everyday practice. Being one step ahead with prepared dilemmas and questions about asthma, diarrhoea, or ear-ache helps a great deal. If your group votes on which question to choose, you can summarise the clinical questions and add comments about the likelihood of success to sway public opinion. Providing food at an educational meeting improves attendance; once folk have turned up, it’s much easier to try to turn them on to whatever the topic is.

Use really good signposting about when and where the club occurs, what the topics are, and the probable relevance to everyday work to improve attendance.

Start your sessions with a review of the clinical question, and allow 5 minutes to scan through the chosen articles.

In addition to having enough copies of the week’s article, having a backup article (or articles) in your bag is essential. There will be times when a good question with a good search leads to no articles, or one with a 3 week lag time in getting a copy from the library. Having nothing to do can kill momentum and people will drop out of the club. A store of little gems goes a long way to counteracting this. The articles we have stockpiled include good clinical information, great teaching points to help with the methodology of appraisal, and pages from current issues of the Evidence-Based Medicine journal.

If the article being reviewed seems only vaguely related to the question, take the opportunity to critically appraise the article’s methodology to try to get some learning out of the session. It is useful to have photocopies of 1 page appraisal tools or the EBM validity criteria to pass around.

Create a learning logbook of CATS as you go along, on a computer if possible. This gives your club a tangible product and a reference to reread when the question is asked again in a month and no one can remember the answer.

Finally, it’s useful to end by asking everyone for their clinical “bottom line.” You might even want to follow this up with group decisions on actions needed to implement the evidence (eg, put up a flowchart or buy the needed equipment) and possible monitoring items (eg, proportion of patients on aspirin or podiatry referrals).

The common themes in successful journal clubs seem to be that they are truly question driven and appraisal focused and seek to generate a written record (often as a CAT, or sometimes a ‘BET’ [Best Evidence Topic http://www.bestbets.org/]). Enthusiasm and relevance all seem to encourage clinicians to take part in these educational events.

JOURNAL CLUB PRINCIPLES

1. Focus on the current real patient problems of most interest to the group.
2. Bring questions, a sense of humour, and good food.
3. Distribute (and redistribute) the time, place, topics, and roles.
4. Bring enough copies for everyone of both the week’s article and a backup article.
5. Keep handy multiple copies of quick (1 page) appraisal tools.
6. Keep a log of questions asked and answered.
7. Finish with the group’s bottomline, and any follow up actions (eg, tools, flowchart, audits, and further searches).

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