Successful policy-makers value pragmatism. As politics is “the art of the possible,” pragmatism is the art of the practical and workable. It entails getting more results sooner through flexibility rather than slavish adherence to rigid preconceptions. This requires experience with the trade-offs between quality and timeliness, between central control and local adaptation, and between leading and following. It calls for good judgment on when to uphold principles versus when to compromise, such as when to abide by experts’ systematic reviews of evidence versus heeding opinion-based consensus.

The term “pragmatic randomized trials,” therefore, is intrinsically attractive to policy-makers. Juxtaposed with “pragmatic,” the term “explanatory” suggests something more advisory. In the culture of policy-making, the juxtaposition is reminiscent of the 2 major types of briefing notes: “for decision” and “for information.” The first serves decision-making on specific actions such as funding, regulations and organizational changes. The second serves communication of news, history, context, long-term options and strategic directions.

In this commentary, my purpose is pragmatic: to help researchers use the article by Thorpe and colleagues' (available at www.cmaj.ca/cgi/rapidpdf/cmaj.090523) as well as 2 articles published in the May 2009 issue of the Journal of Clinical Epidemiology to promote pragmatic trials with language comfortable to policy-makers. First I will recount how each article influenced my thinking. Then I will present several pictures to help policy-makers grasp the issues. I will conclude with recommendations.

I was invited to the workshop to present lessons from our pragmatic trials in British Columbia, which we call “designed delayed trials” (DDTs). Until then I had not reflected systematically about the dimensions of our trials. The PRECIS paper by Thorpe and colleagues helped me understand that designed delayed trials are pragmatic in 2 senses of the word: their purpose and design are to inform policy decisions (the technical meaning of “pragmatic” used by trialists), and they involve compromises for expedience (the lay meaning of “pragmatic” used by policy-makers that rigorous researchers often disdain).

The PRECIS paper’s systematic approach made me self-conscious of my compromises for expedience in the pursuit of randomized delayed control groups. I worried that designed delayed trials could tarnish the worthy term “pragmatic trial.” When I was invited to write a paper on designed delayed trials, I decided to contrast them with rigorous pragmatic trials. Only after writing the first draft did I realize the distinctive feature of our designed delayed trials is ongoing negotiation between the policy-maker and the researcher about the existence, size, duration and definition of the control group. Because policy-makers are accountable for their policies, they retain the power to whittle down or veto any suggestions by researchers.

I had to admit I had become a closet compromiser, willing to abandon some principles of rigorous methodology. I justified this by saying randomization is such an improvement over nonrandomized control groups, many other flaws in a study are tolerable prices to pay. The workshop and the PRECIS paper brought me out of the closet, able to reflect on the causes and effects, the risks and benefits, of such compromises.

The second article, by Karanicolas and colleagues, defining mechanistic and pragmatic trials, made me appreciate in a new way how clinicians’ world view is dichotomized between mechanistic knowledge (biological and pathophysiological information taught in medical school) versus the empiricism of clinical practice. Clinicians’ personal experience of that dichotomy is a solid initial foundation for explaining the distinction between explanatory and pragmatic trials. For them, the words “mechanistic” and “practical” vividly bring to mind the 2 major forces influencing their clinical decisions. Although I accept the merits of the mechanistic–practical dichotomy as a starting point to explain pragmatic trials to practising clinicians, I feel it should not be the end point. What I most appreciate about their article is how it opened my eyes to the need to explain pragmatic trials to clinicians in clinical terms and policy-makers in policy terms.

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Figure 1: Ten major dimensions of an explanatory (intervention) trial¹ that influence the trial’s applicability as it moves from its purpose to its result (from left to right). The dimensions can be divided between the provider of the intervention (e.g., clinician) and its target recipient who normally receives standard care (e.g., patient). See Figure 3 for examples of other providers and recipients.

Figure 2: Ten major dimensions of a pragmatic trial¹ showing real-world variation. In contrast to the restrictions on these dimensions in explanatory trials, as illustrated in Figure 1, pragmatic trials incorporate greater diversity in selection of providers and recipients, flexibility of the intervention, degrees of adherence, scrutiny of participants, and types of outcomes and analyses. Pragmatic trials are more likely to have multiple purposes, addressed by multiple analyses.
As a result of these papers, I would explain pragmatic trials to policy-makers as follows:

A pragmatic trial is a real-world test in a real-world population, whereas an explanatory trial is a specialized experiment in a specialized population. The differences are shown at a glance in Figure 1 and Figure 2. Figure 1 shows the major dimensions of a trial that influence its applicability as the trial moves from its purpose to its result. The dimensions can be divided between the provider of the new intervention and its target recipient who normally receives standard care. Figure 2 shows the same image incorporating real-world variation in types of providers and recipients, as well as interventions, follow-up procedures and analyses. The contrast between the 2 figures portrays the distinction between explanatory and pragmatic trials. Explanatory trials aim to demonstrate that an intervention can work in special circumstances — with specialized clinicians and interventions, and selected patients and outcomes. Pragmatic trials aim to test whether an intervention does work in real-world general circumstances, more applicable to the policy-maker’s purposes and settings.

It should be stressed that providers need not be clinicians and recipients need not be patients. Often the cause and effect are at another pair of levels in the health system hierarchy, as shown in Figure 3. For example, the providers might be regional governments and the recipients might be institutions, or the providers might be institutions and the recipients might be physicians.

In conclusion, an exact distinction between “pragmatic” and “explanatory” may be as elusive as an exact distinction between qualitative and quantitative research. Pragmatic trials can be characterized by numerous contrasts with explanatory trials, but the 2 types of trials should be defined in simple approximate terms (e.g., the trial’s purpose) that can be used orally by lay people in committee meetings. For policy-makers, I suggest saying that pragmatic trials are real-world studies “for decision,” whereas explanatory trials are specialized studies “for information.”

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Figure 3: The providers need not be clinicians and the recipients need not be patients. Often the units of intervention and outcome analysis — like the cause and the effects — are at other levels in the health system hierarchy.