Colorectal cancer screening: Opportunistic or organized?

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PA: Can you explain your new program to coordinate colon cancer screening in Ontario?
LR: Each province has the challenge of implementing an organized province-wide program for CRC screening. In Ontario, we have completed a pilot study of fecal occult blood testing (FOBT), and we have a proposal submitted to the Ministry of Health and Long-Term Care that requests funding to implement province-wide CRC screening based on FOBT. Key elements of the proposal include support for the necessary infrastructure, including colonoscopy hubs.

PA: Can you explain your new program to coordinate colon cancer screening in Ontario?
LR: A nurse FS program could be sited at a colonoscopy hub. This will clearly generate a certain volume of colonoscopies – but if 10% or even 15% of persons who have a FS have an abnormal examination, and go on to require colonoscopy, this is fewer than the 100% that would have a colonoscopy if we were to use colonoscopy as the initial screening test in average-risk individuals. Clearly, the latter is not a viable option for a province-wide organized CRC screening program. There are 2.8 million individuals aged 50 to 74 years in Ontario this year. We would not have the resources to accomplish this task using colonoscopy as the initial screening test. Hence the turn to nurse-administered FS as one option.

PA: Is the plan to eventually have sigmoidoscopy screening centres throughout Ontario? Will this generate a lot of colonoscopies that cannot be performed because of shortages of facilities?
LR: This will depend on the funding model – there are several different ways in which this activity could be funded. FS rates have declined over the past decade in Ontario; the procedure is being somewhat neglected as gastroenterologists and general surgeons do increasing volumes of colonoscopy. Clearly there is an opportunity to increase our CRC screening capacity, by training nonphysicians to perform FS.

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PA: Can you explain the current practice of opportunistic screening and how it compares with the program that you are proposing?
LR: Opportunistic screening is what we are all doing now in Canada. This is completely ad hoc. It depends on either a general practitioner or the patient raising the issue, and because this often is not mentioned during an office visit, screening does not happen. For example, we know that less than 20% of screen-eligible individuals in Ontario are screened, using any method.

Organized screening would include, at a minimum, the following:
- invitations to screen targeted at the screen-eligible population;
- information technology infrastructure to support the screening program;

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- timely access to screening and follow-up tests (colonoscopy);
- quality assurance (credentialing of endoscopist, measurement of colonoscopy adverse events, measurement of proportion of incomplete colonoscopies, etc.); and
- tracking of clinical outcomes (CRC incidence, CRC stage, CRC mortality).

PA: If technical fees are introduced to cover the overhead costs for endoscopy, how will this change the landscape?
LR: Technical fees are one way of funding endoscopic services when they are delivered in nonhospital settings, such as offices. However, we need to be clear that simply putting technical fees in place does not constitute an organized screening program. The office endoscopy environment is currently completely unregulated. Technical fees, in and of themselves, will not solve this problem.

PA: Is Ontario an easier environment to try to implement an organized screening program than the United States?
LR: Any of our provinces – because we have single-payer, universal access health care systems – provide a good framework for implementation of an organized CRC screening program. In the United States, unless you are within a large system that has a single payor (such as the publicly funded Veterans Affairs Health Care System, or Kaiser Permanente, a large nonprofit health maintenance organization) this is very difficult, because health care funding is like a patchwork quilt with many payors, with different fee reimbursement structures and with differences in the services covered. In Canada, we are in an ideal position to move this forward.

PA: Can you predict the future of colon cancer screening in Ontario over the next decade?
LR: I believe we will begin to implement FOBT screening and that it will be phased in, adding geographical areas each year. In this way, we could have a full program implemented by year 5. We will create colonoscopy hubs for the FOBT-positive persons to be followed up. We will also see sites at which nurse-administered FS is offered as an option for the initial screening test.