Are patients informed when they consent to ERCP?

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BACKGROUND: Only the British Society of Gastroenterology has published consent guidelines that are inclusive for endoscopic retrograde cholangiopancreatography (ERCP). Previous research has shown that there are variations in the information discussed with patients who are undergoing ERCP.

PURPOSE: To examine the informed consent practices for ERCP in Ontario.

METHODS: A self-report questionnaire was sent to ERCP endoscopists in Ontario, who were identified through a pre-existing database. The 14-item questionnaire included questions pertaining to the risks, benefits and alternatives discussed, how consent was obtained and whether the consent process was modified for patients older than 75 years.

RESULTS: Of the 82 surveys sent, 36 responses were received, with three respondents indicating that they no longer performed ERCP; the total response rate was 40%. Ninety-four per cent of those who responded noted that they obtained written consent, and 6% obtained verbal consent. When discussing risks with their patients, 91% of respondents always mentioned pancreatitis, 88% always mentioned bleeding, 73% always mentioned perforation and 30% always mentioned the risk of infection; only 24% always mentioned the possibility of being allergic to the contrast agent, and 73% rarely or never mentioned death. When dealing with patients older than 75 years, 38% of respondents tended to be more brief in their explanations, 31% gave the same details in their explanation and 31% gave more detailed information than they gave to younger patients. Seventy-nine per cent mentioned the possibility of diagnostic failure and 82% mentioned the possibility of therapeutic failure, while only 27% mentioned the possibility of missing a diagnosis.

CONCLUSIONS: Variability exists in terms of ‘important information’ given to patients undergoing ERCP. Standard informed consent guidelines specific to ERCP may help endoscopists uphold their responsibility to the patient, enhance patient understanding and reduce the risk of liability.

Key Words: Endoscopic retrograde cholangiopancreatography; Informed consent; Litigation

Cholangio-pancréatographie rétrograde endoscopique et consentement éclairé : qu’en est-il au juste?

CONTEXTE : Seule la British Society of Gastroenterology a publié des lignes de conduite relatives au consentement éclairé, applicables à la cholangio-pancréatographie rétrograde endoscopique (CPRE). Des recherches antérieures ont montré qu’il existe des écarts quant à l’information livrée aux patients devant subir une CPRE.

OBJECTIF : Examiner les pratiques relatives au consentement éclairé en Ontario en ce qui concerne les CPRE.

MÉTHODE : Un questionnaire d’auto-déclaration a été envoyé à des endoscopistes pratiquant des CPRE en Ontario ; le choix s’est fait à partir d’une base de données préexistante. Le questionnaire en 14 points portait sur les avantages et les risques de l’intervention ainsi que les solutions de rechange, le type de consentement obtenu et les modifications possibles du processus de consentement pour les patients de plus de 75 ans.

RÉSULTATS : Nous avons reçu 36 réponses sur une possibilité de 82, et trois répondants ont fait savoir qu’ils ne pratiquaient plus de CPRE, ce qui
Informed consent for ERCP

The issue of informed consent more often than those in most other medical specialties, making it especially important for gastroenterologists to obtain adequate informed consent (1). Previous research has shown that, in general, endoscopists fail in their duty to provide adequate information to their patients (2). Other reports have indicated that endoscopists obtain consent for endoscopy procedures, including endoscopic retrograde cholangiopancreatography (ERCP), in a variant fashion (1,3). Patients have a right to be properly informed before a medical investigation. Failure to do so leaves gastroenterologists open to litigation (4-6).

Because courts have been holding physicians liable on the basis of failure to obtain adequate informed consent, in conjunction with courts’ heavy reliance on progress notes, documenting consent is often more important to the gastroenterologist than engaging in the actual informed consent process itself (1). Obtaining informed consent has become an administrative step in the process of seeing patients rather than a discussion of the procedures, risks, benefits and fears of the patient to lead him or her to an informed decision (7). The majority of patients undergoing medical therapy do not properly read consent forms (1). Patients are more interested in what physicians say rather than what they have read or signed. However, written information is also important because it can be easily administered and updated by other health care providers, and provides permanent documentation of information provided to the patient. The primary goal of obtaining informed consent is that the patient has the opportunity to be an informed participant in the making of his or her health care decisions.

ERCP is a complex procedure with a relatively high complication rate. Diagnostic ERCP carries a complication rate of approximately 3% (8). Therapeutic ERCP with sphincterotomy is associated with more risk and has a complication rate of approximately 9% (8,9). Complications of ERCP are well recognized and include pancreatitis (5.4%) and bleeding (2.0%), and a death rate of up to 0.4% (3,8,9). According to the law, risk with severe consequences, even if miniscule, is considered a material risk and must be disclosed (2,7). Death, for example, is a severe consequence and must be disclosed, even if the chance of it occurring is low. Physicians have been found to disclose only risks with a high probability of occurrence and to provide little information regarding alternative therapies or interventions (3,10).

Patients undergoing ERCP are often older than 75 years and present a high level of morbidity. Previous research has shown that healthy patients retain more information about risks and side effects than severely ill patients (10). Consent documents have also been shown to be less useful for patients with severe disease (10). Gostout (11) recommended that ERCP endoscopists present important information to severely ill or elderly patients more than once so that the patient understands the risk to benefit ratio associated with ERCP. Elderly patients have additional needs that must be addressed in a situation of gastrointestinal illness, ie, risks, avoidance of costly interventions and surrogate decision-makers (11).

Patients who have not been adequately informed and subsequently experience negative ramifications as a result of a procedure are more likely to sue (5). In the United States, 1% of medical liability claims have been related to endoscopic procedures (4). Of 85 malpractice claims against gastroenterologists that have been analyzed, 37 arose from adverse events that occurred during endoscopy, 13 of which were ERCPs. In 31 of these endoscopy cases, there appeared to be significant fault on the part of the physician (12). Most ERCP lawsuits centre on the occurrence of severe complications (3). Neale (12) maintained that there would have been few claims if proper informed consent had been obtained. The British Society of Gastroenterology is the only association with published informed consent guidelines inclusive of ERCP (4).

The purpose of the present study was to build on the limited literature related to informed consent practices for ERCP by examining the current standards of obtaining informed consent before ERCP in Ontario.

METHODS

A self-report questionnaire was sent to ERCP endoscopists practising in Ontario (Appendix 1). These physicians were identified through a pre-existing database. Physicians in the database included all ERCP endoscopists practising at an Ontario hospital with 100 or more beds. The survey was sent out only once and comprised 14 items pertaining to the risks, benefits and alternatives discussed; how consent was obtained; and whether the consent process was modified for patients older than 75 years.
Design and statistical considerations

This was a cross-sectional, questionnaire-based, descriptive study. Results are expressed as a percentage of responses received per question.

RESULTS

Of the 82 surveys sent, 36 responses were received, with three respondents indicating that they no longer performed ERCP. Therefore, the total response rate was 40% (n=33). The mean number of years in practice for respondents was 13.58 (SD 4.97), and the mean number of ERCPs performed per year was 160.25 (SD 166.32). Eighty-eight per cent of the respondents were gastroenterologists, 9% were general surgeons and 3% were radiologists. Seventy per cent of respondents practised in an academic centre and 30% practised in the community.

One hundred per cent of the respondents indicated that they disclosed all procedural information, including risks, benefits and alternatives, to their patients. Table 1 and Figure 1 outline the risks and severity of risks discussed with patients undergoing ERCP. Nine per cent of respondents never mentioned the risk of perforation, which is a risk encountered during all endoscopic procedures. Sixty-seven per cent of respondents never mentioned the risk of death, and only 59% of respondents considered death to be a material risk. Figure 2 outlines how respondents modified their informed consent practices for patients older than 75 years. As far as other procedural complications of ERCP were concerned, 21% of respondents did not disclose the chance of diagnostic failure, 18% of respondents did not disclose the chance of therapeutic failure and 73% of respondents did not tell their patients of the chance that ERCP may miss a diagnosis.

Consent was most commonly obtained in written form (94%), with only 6% of respondents relying on verbal consent. Less than 50% of respondents documented informed consent information in their patients’ charts. How thoroughly alternatives to ERCP were offered was not documented; Table 1 shows that the alternatives discussed are not documented regularly.

DISCUSSION

ERCP endoscopists perform a procedure with a relatively high complication rate involving patients who are often elderly and/or severely ill. Procedures with severe complications increase the likelihood of litigation. We speculate that the low response rate to our questionnaire may be an indication of physicians’ discomfort with this topic. Therefore, ERCP endoscopists must implement thorough informed consent practices to ensure that the patient understands his or her health status and the best individual health management options.

It is generally accepted that obtaining informed consent includes the following elements: disclosure of the nature of the procedure, reasonable alternatives to the proposed intervention, risks and possible complications of the procedure, benefits of the procedure and an assessment of the patient’s understanding (2,7,13). This does not appear to be the current routine standard of practice in Ontario. We found that, in Ontario, the practice for obtaining informed consent for ERCP is quite variable, possibly due to the lack of standardization.
of practice guidelines specific to ERCP in Canada or the United States. Some informed consent guidelines suggest employing the ‘reasonable physician standard’, which allows the physician to determine what information should be discussed with the patient (13). Previous research has shown that this standard does not provide the patient with enough desired information (13). Instead, especially for complex procedures such as ERCP, the ‘reasonable patient standard’ should be employed, which focuses on what information an average patient needs to know to make an informed decision (13). Understanding the patient’s needs and perceptions will help endoscopists to inform them better (1).

One important finding of the present study was that only 18% of physicians always mentioned the chance of death to patients undergoing ERCP and 67% of respondents never mentioned it. It is understood among physicians that ERCP is usually the best of the available options for most patients. Percutaneous and operative common bile duct exploration have higher morbidity and mortality rates, while endoscopic ultrasound and magnetic resonance cholangiopancreatography are not yet widely available in Canada. There are additional reasons why physicians may not explain all other options to their patients, including the lack of time to teach patients of the details and circumstances of each choice, and the potential for confusing patients and leading them to making a more dangerous choice. Nonetheless, under Canadian law, any ‘material risk’ must be disclosed (7), including the 0.4% chance of death directly related to ERCP (9). The primary reason (84% of physicians) for not mentioning death was that there is “a low chance of it occurring”. We found variability between which risks were discussed and the severity of each risk. For example, 91% of respondents always mentioned the risk of pancreatitis associated with ERCP, 73% always mentioned the risk of perforation and 25% always mentioned the risk of an allergic reaction to the contrast agent. We recommend that the risk of pancreatitis, bleeding, perforation and death should always be discussed with every patient who is to undergo ERCP.

Finally, we found that less than 50% of physicians documented consent information in a patient’s chart. A brief, routine mention of the informed consent discussion and patient comprehension during dictation may remind physicians to discuss more completely the procedure and reduce their possible legal risk. If physicians choose not to review the risks with their patients because, in their opinion, it is not in the patient’s best interest, then this decision should be documented to avoid the appearance of negligence.

In addition to the issue of what information should be disclosed, the question of when the information should be disclosed has also been a topic of interest in the literature. We did not examine this issue in our study; however, it has been agreed that requesting consent hastily only moments before a procedure is unsatisfactory (14). It has been suggested in the literature that patients should receive information regarding the procedure in the mail before the date of the procedure and that consent should be obtained at least 30 min before the investigation (14). One study examined the effectiveness of a specifically designed information booklet with an integral consent form that was mailed to patients before their procedure; the booklet was accepted by patients and improved their understanding of the procedure that they were to undergo – upper intestinal endoscopy (15). Given the complex nature of ERCP compared with other upper endoscopy procedures, an information booklet for ERCP may be an effective informed consent tool. An information booklet would allow a patient to take his or her time to understand the procedure and eliminates the power imbalance between patient and gastroenterologist that exists outside the comfort of the patient’s home (15).

The British Society of Gastroenterology has published guidelines specific to ERCP indicating that the patient should be provided with written information about acute pancreatitis, cholangitis, perforation and bleeding (4). ERCP involving the insertion of a stent carries additional considerations that must be addressed because of the potential short term and long term consequences (4). In an audit of 16 of 18 endoscopy units in the northern region of the United Kingdom, it was found that adequate informed consent was provided in only four instances (4). Our results are similar, indicating that ERCP endoscopists not only fail to provide written information about these complications, but in some cases do not disclose the risks at all (Figure 1).

Our findings are generally consistent with those of a study conducted in Indiana in 1994, which also looked at informed consent practices via questionnaire (3). One consideration that was not addressed by Newton et al (3) was the issue of information disclosed to patients older than 75 years. While elderly patients, who are often very ill, require special care and attention regarding the informed consent process, we found that a high proportion of respondents are more inclined to be less detailed in their explanations with this population than with younger patients (Figure 2). It is important that ERCP endoscopists are sensitive to the added planning and decision making required for the health care management of elderly patients (11). As providers of health care, gastroenterologists need to be aware of and be involved in outcomes and quality assessment of their practice (16).

**CONCLUSIONS**

It is evident that a high degree of variability exists in the information that is disclosed to patients undergoing ERCP. Our results indicate that, in Ontario, many patients do not receive a complete description of the benefits and complications of, and alternatives to, ERCP. There are no practice guidelines specific to ERCP in the United States or Canada. Standard practice guidelines may reduce the variability of, and therefore improve, the informed consent practice. We advocate the development of American and Canadian informed consent guidelines specific to ERCP, which may help endoscopists enhance patients’ understanding of the procedure and reduce their own risk of liability.
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APPENDIX 1

A self-report questionnaire designed to determine the practices of obtaining informed consent for endoscopic retrograde cholangiopancreatography (ERCP) in Ontario

Practitioner Information
1. Specialty Training
   A. General Internal / Gastroenterologist
   B. General Surgeon
   C. Other:

2. Type of practice
   A. Community
   B. University affiliated
   C. Other:

3. Years performing ERCP
   Average # of ERCPs per year:

Procedural
4. Who gives relevant information (nature of procedure, risks, benefits, alternatives) to the patient (example: “yes,” secretary, RN, resident, referring specialist, family physician) and how is this information conveyed? (if information is not given for one category, circle N/A)

Who gives information?
   N/A

How is information conveyed?
   [Voice, written, both, other]

Nature of Procedure
   A
   B
   C
   D
   V

Risks
   A
   B
   C
   D
   V

Benefits
   A
   B
   C
   D
   V

Alternatives
   A
   B
   C
   D
   V

5. How do you obtain consent from the patient? (please circle one answer)
   A. Verbally - without obtaining signature
   B. Written - patient signs a generic consent form

Documentation
6. Do you dictate or note in chart what information the patient has received?
   Always (A), usually (B; 50-60%), sometimes (C; 20-70%), infrequently (D; 1-10%), or never (V; 0%)

What specifically is mentioned?
   A
   B
   C
   D
   V

Risks
   A
   B
   C
   D
   V

Benefits
   A
   B
   C
   D
   V

Alternatives
   A
   B
   C
   D
   V

6. Do you explain risks and alternatives differently to different groups of patients? Example: a 75 year-old with life-threatening cholangitis who requires an emergency procedure versus an elective procedure in a 55 year-old patient with RUQ pain and mild enzyme changes.

Do you explain risks and alternatives differently to the 75 year-old with life-threatening cholangitis?
   A
   B
   C
   D
   E

Risks
   A
   B
   C
   D
   E

Benefits
   A
   B
   C
   D
   E

Alternatives
   A
   B
   C
   D
   E

7. What complications are always (A; 100%), usually (B; 50-60%), sometimes (C; 20-70%), infrequently (D; 1-10%), or never (V; 0%) explained to patients? Also, circle which if any possible consequences of each of these complications are mentioned to patients?

Complications
   A
   B
   C
   D

Complication Severity
   A
   B
   C
   D

Potential diagnostic failure of procedure
   Y
   N

Potential therapeutic procedure failure
   Y
   N

Missing patient even if it is present
   Y
   N

Anesthetic
11. Do you use general anesthetic?
   A
   B
   C

A
   B
   C

12. If yes, who explains risks?
   A
   B
   C

A
   B
   C

13. Are the following procedural limitations discussed before the procedure?

Agreed
   Y
   N

AGREE
   Y
   N

References