Abstract

The objectives of the study were (a) to determine consultant gynaecologists' awareness of and views on a national audit project (the gynaecology audit project in Scotland) and (b) to measure changes in their reported practice in relation to 12 specific elements of care related to three audit topics (induced abortion, endometriosis, and vulvar carcinoma) for which recommendations for change had been made within the project. The study comprised a postal questionnaire survey of all 128 consultant gynaecologists in NHS practice in Scotland. The response rate was 90%. Of the respondents, 96% (109/111) recalled receiving feedback material from the audit project team and around 75% (range 66/89 to 84/105) had retained feedback reports for future reference. For the two more common clinical topics (induced abortion and endometriosis), over two thirds of the respondents indicated that they had been prompted to reconsider or change aspects of practice. Significant changes in reported practice, in line with project recommendations, were found for seven of the 12 specific elements of care examined. Thus, gynaecologists in Scotland showed a high level of awareness of and positive views towards a national audit project. Significant changes in reported practice, in accordance with circulated recommendations, were measurable in relation to several elements of clinical care.

(Quality in Health Care 1995;4:37–39)

Keywords: evaluation of audit, gynaecologists, change in clinical practice.

Introduction

The government's white paper Working for Patients of 1989 required that all doctors participate in medical audit. In the three years since the white paper, an estimated £140m has been invested in medical audit programmes in England alone. Widespread scepticism exists about whether this massive investment has resulted in tangible benefits to patients and in measurable changes in clinicians' practice. There is growing awareness of the need for evaluation of audit activities, or "audit of audit."
Criteria for good quality care addressed in follow up questionnaire*

**Induced abortion**
- Doctors managing induced abortion should have a policy for identifying and treating women at risk of genital tract infection
- In selected women undergoing surgical abortion a technique for cervical predilatation should be used
- For second trimester medical abortion, the addition of mifepristone to prostaglandin regimens reduces the time between induction and abortion
- Before she is discharged each patient should have agreed on a contraceptive plan and should have been offered contraceptive supplies
- A follow up appointment, either at the hospital or with the referring doctor, should be offered to every patient

**Endometriosis**
- At diagnostic laparoscopy a double puncture technique should be used to permit the entry of instruments for manipulation of the pelvic organs
- At diagnostic laparoscopy the description of pelvic findings recorded should permit staging of the disease into minimal, mild, moderate, and severe categories
- The description should be supplemented by a diagram or photograph
- For infertile patients with mild disease, the first line treatment is “expectant management”
- When medical treatment is chosen for endometriosis the preferred first line treatment is continuous progesterogen

**Vulvar cancer**
- Vulvar carcinoma should not be managed by the “occasional oncologist” alone but by a recognised individual in each hospital or district who has a subspeciality interest
- Regular, long term follow up should take place at a special multidisciplinary gynaecological oncology clinic

*These criteria were based on literature review and were validated by a consensus of agreement among Scottish gynaecologists.5,7*

whether the project had influenced their practice.

In addition, 12 criteria for good quality care were selected from among the 52 agreed for the three audit topics as being of particular importance or as representing aspects of practice where changes were required. These 12 criteria are listed in the box. Inquiry was made into practice relating to these criteria for comparison with responses made to similar inquiries in the original questionnaire surveys.5,7

A second copy of the questionnaire with a letter of reminder was sent to gynaecologists who did not respond within two weeks.

Data from the follow up questionnaires were entered into a purpose designed database using Paradox (Borland) software on an IBM compatible personal computer. Significance testing using the McNemar test was performed using the Instat 2 (Graphpad Software) package.

**Results**

Of the 128 questionnaires sent out, 115 were eventually returned, completed, to the project office – a response rate of 90%. Of these, 113 were returned in time for analysis. Of these 113 responders, 109(96%) recalled receiving one or more of the feedback reports circulated by the project team. Of those who recalled receiving them, 80% (84 out of 105), 78% (80 out of 102), and 74% (66 out of 89) indicated that they had retained for future reference the reports on abortion, endometriosis, and vulvar cancer respectively.

Consultants were asked how interesting and useful they had found the feedback reports. Responses are summarised in the table. For abortion and endometriosis, over two thirds of responders were prompted to change or, at least reconsider, aspects of their practice. Only three gynaecologists indicated that they thought that the reports were “a waste of paper.”

Ninety four consultants (88% of those answering) thought that it would be worth while for the project team to address further topics in a similar manner, and 59 of them suggested 96 suitable topics. The suggestions encompassed almost the whole of gynaecological (and indeed, obstetric) practice. The most popular suggestions were menorrhagia and dysfunctional uterine bleeding (22 consultants), incontinence (14 consultants), and infertility (12 consultants).

For each of the 12 specific items of care chosen to be addressed in the follow up survey, the responses of those consultants who answered the relevant questions in both the initial and follow up questionnaires were compared using the McNemar test.

**INDUCED ABORTION**

Three significant changes, in line with recommendations, occurred. Firstly, more consultants indicated that they would predilate the cervix at relatively advanced gestations (75 v 60 out of 89); 19 did so who had not done so before and four had changed their practice in the opposite direction (x² = 8.5, p = 0.003). Secondly, more consultants would use mifepristone before a second trimester medical
abortion (59 v 18 out of 89); 41 did so who had not done so before and none had changed their practice in the opposite direction ($\chi^2 = 36$, $p < 0.0001$). Finally, more consultants adopted a policy of universal bacteriological screening or antibiotic prophylaxis for managing potential genital tract infection (33 v 23 out of 90); 12 did so who had not done so before and two had changed their practice in the opposite direction ($\chi^2 = 5.78$, $p = 0.016$). The difference in the numbers who would offer contraceptive supplies as well as advice (51 v 43 out of 88) and who would offer some form of follow up (65 v 64 out of 87) failed to reach significance.

ENDOMETRIOSIS

Significantly more gynaecologists indicated that they now usually used a diagram to help record the findings at diagnostic laparoscopy (59 v 44 out of 100); 22 now did so who had not done so before and seven had changed their practice in the opposite direction ($\chi^2 = 6.76$, $p = 0.009$). Similarly, more would choose a progestogen as first line medical treatment (37 v 26 out of 101); 13 would choose progestogen who had not done so before and two had changed their practice in the opposite direction ($\chi^2 = 6.67$, $p = 0.01$).

Fewer gynaecologists would now use inappropriate drug treatments for infertile women with mild endometriosis (28 v 50 out of 95); 25 who previously would have prescribed drug treatments would no longer do so and three had changed practice in the opposite direction ($\chi^2 = 15.7$, $p < 0.0001$). The differences in numbers who indicated that they always use a double puncture technique at diagnostic laparoscopy (62 v 59 out of 102) and who used the revised American Fertility Society scoring system for staging (15 v 15 of 102) failed to reach significance.

VULVAR CARCINOMA

Significantly more gynaecologists would now offer follow up at a special, multidisciplinary clinic (32 v 23 out of 58); 11 would do so who did not before and two had changed their practice in the opposite direction ($\chi^2 = 4.92$, $p = 0.026$). There was no difference in the number of gynaecologists who were not specialists in oncology who would manage cases of vulvar cancer themselves (3 v 2 out of 40).

Discussion

The follow up survey showed a high level of awareness among gynaecologists of a national audit project initiated by the Scottish branch of their royal college. Most valued the feedback reports circulated by the project team sufficiently to retain them for future reference and, for the two more common clinical topics, over two thirds indicated that they were prompted to reconsider or change their practice. The theoretical advantages of multidisciplinary, clinical (rather than medical) audit are acknowledged, but this confidential, single discipline exercise seemed to engender a strong sense of ownership and cooperation. In future, however, this approach to audit might be expanded to include junior medical staff and referring general practitioners.

The finding of a significant increase over the timescale of the project in the number of consultants whose practice accords with the audit recommendations for seven of the 12 specific elements of care studied confirms respondents’ expressed views that they were prompted to change their practice. Reported practice may not necessarily reflect actual practice, but in this project the impressions of current care gained from the questionnaire audit and the review of case notes were similar.

The gynaecology audit project in Scotland has shown that Scottish gynaecologists are interested and willing to participate in medical audit. Refinements in audit methods must be sought to translate this evident good will into more substantial improvements in patient care.

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