Day surgery in Scotland: patient satisfaction and outcomes

John Bain, Hugh Kelly, David Snadden, Harry Staines

Abstract
Objective—To evaluate patients’ views on the process and outcome of day surgery in Scotland, and to study patients’ satisfaction with care in a range of specific procedures.

Design—Questionnaires completed by a census of day case surgery patients within a band of 25 procedures under the umbrella of five broad groups: (1) general surgery; (2) urology; (3) gynaecology; (4) orthopaedics; (5) ear, nose, and throat; ophthalmology

Setting—13 hospitals in six health board areas in Scotland

Subjects—During the period 1995–6, 5069 day case patients were asked to complete a questionnaire within two weeks of their operation and discharge from hospital.

Main outcome measures—Arrangements before admission; immediate post-operative symptoms and complications; problems experienced after discharge; readmission after discharge.

Results—A response rate of 68% was obtained from 13 sites ranging from 43% to 82%. The overall satisfaction score was 85. A total of 894 patients (26%) experienced pain after surgery and 783 (23%) had relatively minor medical problems after discharge. In total, 265 (7.8%) patients were readmitted to hospital after discharge. Few notable differences existed between specialties or hospitals in terms of satisfaction scores, although notable pain was experienced more frequently in gynaecology and general surgery patients. Readmission was more common for urological procedures.

Conclusion—Overall, patient satisfaction with day case surgery was high. Dissatisfaction was largely related to waiting times between admission, operation, and discharge. The amount of pain experienced also had a notable impact on the level of patient satisfaction. Day surgery is not without complications, with 26% of patients experiencing notable degrees of pain; 23% having minor medical problems after discharge; and 8% of respondents having to reattend hospital with problems relating to their original operations.

Keywords: day surgery; patient satisfaction; complications; outcomes

Day surgery in Scotland, in common with the rest of the UK, Europe, and the United States is on the increase. 1 At the same time, inpatient episodes for the same procedures are decreasing. Day surgery in Scotland has increased by 570% since 1981 from 53 644 to 306 080 cases in 1995. 2 This sharp rise in activity has been a product of advancing medical technology, a better understanding of what can be done safely in one day, and increasing pressure applied to provider units to streamline hospital care.

Several UK studies have been conducted on day surgery. 1–7 In 1990, auditors from the audit commission for England and Wales were trained to collect data from 20 common surgical procedures supplemented by interviews taken with consultants, anaesthetists, managers, and nursing staff. This review focused mainly on levels of activity and organisation of care and facilities. 4 The auditors found that a wide variation of activity existed across districts and that there was a large potential for increased day surgery through a reduction of inpatient procedures. Most hospitals were found to have a dedicated day case ward or a ward with theatres attached to their main day surgery facility with all units situated next to or in a general inpatient hospital. This is different from practice in the United States where standalone units are common. Wide variation was also noted in the structure, design, and layout of day care units.

The main thrust of day surgery appears to be a cost reduction for the purchaser together with a reduction in waiting times and a quicker return to a familiar home environment for the patient. 10–13 Guidelines exist for setting up and running day surgery units and targets for acceptable activity. 6 However, evaluation of day surgery has tended to focus on the hospital perspective, comparing effectiveness and acceptability with traditional inpatient care. 14–16 The reported benefits for patients include reduced waiting times, booked appointments, and care in dedicated facilities, 10–13 although caution exists with regard to the perceived benefits. 14–15 There is little published information on patients’ experience of day surgery, although the audit commission report highlighted the specific areas of dissatisfaction which included lack of facilities, poor levels of privacy, absence of telephones, poor information, and insufficient warning of admission and discharge. 6

The objectives of the study reported were to evaluate patients’ views on the process and outcome of day surgery in Scotland, and to
study patients’ satisfaction with care in a range of specific procedures.

Methods

PROCEDURES

A total of 20 procedures were identified and divided into five broad groups: (1) general surgery, (2) urology; (3) gynaecology; (4) orthopaedics, and (5) ear, nose, and throat (ENT) and ophthalmology were studied and compared with previous work. As part of the negotiations with participants, five further “procedures” were included in the study. There are 13 health boards in Scotland which are responsible for overall healthcare provision in their areas. Within these boards, hospitals are grouped within NHS trusts which care for defined populations. Thirteen hospitals were recruited from six health board areas and within 12 NHS trusts. Selection was made to ensure representation of small and large hospitals, the amount of day surgery activity, facilities, type of population, and variations in urban/rural location (table 1).

QUESTIONNAIRE

After consultation with all participant providers, and taking account of local circumstances, a modified questionnaire containing specific questions under four broad headings was piloted in three sites and found to be acceptable. To encourage a high response, on admission patients were given a letter of explanation from participating hospitals and a consent form about the study. A questionnaire accompanied by a prepaid return addressed envelope was subsequently distributed to a sample of 5069 patients. A reminder letter and questionnaire were sent to those patients who had not responded within one month after the original questionnaire was distributed.

<table>
<thead>
<tr>
<th>Question</th>
<th>Responses</th>
<th>Don’t know (%)</th>
<th>p Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Did the patient understand that day surgery meant no overnight stay?</td>
<td>2523/2934</td>
<td>42/63</td>
<td>111</td>
</tr>
<tr>
<td>Satisfaction score</td>
<td>86</td>
<td>67</td>
<td>—</td>
</tr>
<tr>
<td>Was the patient satisfied with explanations?</td>
<td>2471/2862</td>
<td>100/146</td>
<td>102 (3)</td>
</tr>
<tr>
<td>Satisfaction score</td>
<td>86</td>
<td>68</td>
<td>—</td>
</tr>
<tr>
<td>Did the patient receive written information?</td>
<td>1597/1849</td>
<td>935/1120</td>
<td>144</td>
</tr>
<tr>
<td>Satisfaction score</td>
<td>86</td>
<td>83</td>
<td>—</td>
</tr>
<tr>
<td>Satisfaction score</td>
<td>86</td>
<td>79</td>
<td>—</td>
</tr>
<tr>
<td>Did the patient offer a choice of day surgery?</td>
<td>463/535</td>
<td>2030/2565</td>
<td>174</td>
</tr>
</tbody>
</table>
| Results

A total of 3408 (67%) of the 5069 questionnaires distributed were returned after one reminder. Responses from different provider units ranged from 82% to 43%. Of the responses, 1295 (38%) were from men, 2004 (59%) from women, with 109 (3%) unrecorded; 824 (24%) were from patients aged 15–34, 1157 (34%) from those aged 35–54, and 1278 (38%) from those aged over 55 years.
Table 3  Experiences after operation

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes (%)</th>
<th>No (%)</th>
<th>Don’t know (%)</th>
<th>Total</th>
<th>p Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Did patient have enough warning before discharge?</td>
<td>3050 (89)</td>
<td>172 (5)</td>
<td>186 (6)</td>
<td>3408</td>
<td>p&lt;0.01</td>
</tr>
<tr>
<td>Satisfaction score</td>
<td>87 (2)</td>
<td>58</td>
<td></td>
<td>145</td>
<td></td>
</tr>
<tr>
<td>*Pain experienced in 24 hours after discharge?</td>
<td>894 (26)</td>
<td>2391 (70)</td>
<td>123 (4)</td>
<td>3408</td>
<td>p&lt;0.01</td>
</tr>
<tr>
<td>Satisfaction score</td>
<td>68 (2)</td>
<td>89</td>
<td></td>
<td>157</td>
<td></td>
</tr>
<tr>
<td>Medical problems after operation?</td>
<td>783 (23)</td>
<td>2569 (75)</td>
<td>56 (2)</td>
<td>3408</td>
<td></td>
</tr>
<tr>
<td>Satisfaction score</td>
<td>82 (2)</td>
<td>85</td>
<td></td>
<td>167</td>
<td>p&lt;0.05</td>
</tr>
<tr>
<td>Reattendance to hospital (within 24 hours)</td>
<td>265 (8)</td>
<td>3101 (91)</td>
<td>42 (1)</td>
<td>3408</td>
<td></td>
</tr>
<tr>
<td>Satisfaction score</td>
<td>81 (2)</td>
<td>86</td>
<td></td>
<td>167</td>
<td>p&lt;0.05</td>
</tr>
</tbody>
</table>

*Yes response categorised as pain greater than “a little”.

with 149 (4%) unrecorded. 439 of the patients (13%) lived alone with 149 (4%) unrecorded. The \( \chi^2 \) goodness of fit test\(^3\) showed that the observed frequencies were consistent with equal response rate (\( \chi^2(8)=1.38; p=0.99 \)).

Only 580 (17%) patients were offered the choice between day surgery and inpatient care, but there was no significant difference in overall satisfaction score between those offered the choice (score 87) and those not 2644 (78%) (score 85) (\( \chi^2(1)=2.68; p=0.10 \)) (table 2).

There was significant difference (\( \chi^2(1)=4.64; p=0.03 \)) in satisfaction scores between the 1942 patients (57%) who received written information about procedures before admission (score 86) and the 1322 (39%) who did not (score 83). There was also a significant difference (\( \chi^2(1)=35.6; p<0.0005 \)) between satisfaction scores for 3131 (92%) patients who considered everything had been adequately explained (score 86) and 175 (5%) who did not consider explanation was adequate (score 68).

The amount of privacy experienced by the patient had a direct bearing upon their satisfaction, with those experiencing less than acceptable privacy (n=150, 4%) being significantly less satisfied (score 68) (\( \chi^2(1)=47.1; p<0.0001 \)).

WAITING TIMES

Waiting times were important to patients, with those who thought they were kept waiting longer than expected less satisfied, 460 (13%) (score 71), than those who thought they were waiting as expected, 2791 (82%) (score 86). Timing between admission and discharge was related to satisfaction scores, with a significant difference being evident among those admitted early and discharged early (scores 88 and 87) and those admitted and discharged at a later time (scores 80 and 68) (\( \chi^2(5)=11.45; p=0.04 \) and \( \chi^2(4)=13.63; p=0.0086 \), respectively).

A total of 3050 patients (89%) considered that they had received sufficient warning about the timing of their discharge (score 87) (table 3). The 172 patients who they were not given enough warning about discharge had a significantly lower satisfaction score of 58 (\( \chi^2(1)=82.5; p<0.0001 \)).

Having someone to contact if a problem arose after discharge was seen as important for the majority of patients. Those given a contact were more satisfied (n=2582, 76%) compared with those that had not (n=681, 20%) (score 83) (\( \chi^2(1)=9.13; p=0.0025 \)). In total, 3033 (89%) patients had someone to escort them home after their operation and 2590 (76%) ensured that someone stayed with them, for at least the first night after surgery. In total, 176 (13%) patients indicated a preference to have remained in hospital after the operation.

A total of 645 (19%) recounted a “fair amount” of pain and 249 (7%) “a lot of pain” after day case surgery. This group of 894 (26%) patients had a satisfaction score of 68 which was significantly lower (\( \chi^2(1)=61.8; p<0.0001 \)) than the 2391 (70%) patients who had “little” or “no pain” (score 89) (table 3).

Patients were less satisfied if they experienced unexpected pain compared with patients who had pain but had expected it. This was particularly true of gynaecology and general surgery day case patients. In gynaecology patients experiencing pain which they had expected had a satisfaction score of 85, while those with unexpected pain had a satisfaction

Table 4  Medical problems after operation

<table>
<thead>
<tr>
<th>Breakdown by provider</th>
<th>1 (%)</th>
<th>3 (%)</th>
<th>5 (%)</th>
<th>7 (%)</th>
<th>9 (%)</th>
<th>11 (%)</th>
<th>Total (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>103 (33)</td>
<td>76 (23)</td>
<td>44 (14)</td>
<td>74 (19.8)</td>
<td>50 (17.2)</td>
<td>58 (17.2)</td>
<td>783 (23)</td>
</tr>
<tr>
<td>No</td>
<td>200 (65)</td>
<td>277 (78)</td>
<td>75 (24)</td>
<td>297 (79)</td>
<td>146 (42)</td>
<td>278 (82)</td>
<td>2570 (75)</td>
</tr>
<tr>
<td>Not coded</td>
<td>5 (2)</td>
<td>0 (0)</td>
<td>19 (14)</td>
<td>2 (0.6)</td>
<td>10 (3)</td>
<td>1 (0.3)</td>
<td>45 (2)</td>
</tr>
<tr>
<td>Total</td>
<td>308</td>
<td>353</td>
<td>138</td>
<td>373</td>
<td>206</td>
<td>337</td>
<td>3408</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Breakdown by specialty groupings (for 20 procedures)</th>
<th>1 (%)</th>
<th>3 (%)</th>
<th>5 (%)</th>
<th>7 (%)</th>
<th>9 (%)</th>
<th>11 (%)</th>
<th>Totals (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>49 (24.1)</td>
<td>183 (20.5)</td>
<td>189 (33.3)</td>
<td>34 (10.5)</td>
<td>48 (13.6)</td>
<td>503 (23.1)</td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>154 (75.9)</td>
<td>709 (66.7)</td>
<td>379 (66.7)</td>
<td>132 (79.3)</td>
<td>305 (86.4)</td>
<td>1679 (76.9)</td>
<td></td>
</tr>
<tr>
<td>Totals</td>
<td>203</td>
<td>892</td>
<td>568</td>
<td>166</td>
<td>353</td>
<td>2182</td>
<td></td>
</tr>
</tbody>
</table>

Specialty groupings:
(1) general surgery; (2) urology; (3) gynaecology; (4) orthopaedics; (5) ENT, ophthalmology

Breakdown by provider: the 13 providers have been grouped into the 12 trusts they serve. The figures given include five other procedures outwith the 20 selected for review. The specialty grouping tables only show results for the 20 selected procedures.
Table 5  Readmission to hospital after day surgery

<table>
<thead>
<tr>
<th>Breakdown by provider</th>
<th>1 (%)</th>
<th>2 (%)</th>
<th>3 (%)</th>
<th>4 (%)</th>
<th>5 (%)</th>
<th>6 (%)</th>
<th>8 (%)</th>
<th>9 (%)</th>
<th>10 (%)</th>
<th>11 (%)</th>
<th>12 (%)</th>
<th>Total (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>12 (3.9)</td>
<td>12 (4.0)</td>
<td>14 (4.0)</td>
<td>15 (4.1)</td>
<td>6 (4.3)</td>
<td>16 (4.6)</td>
<td>6 (5.4)</td>
<td>12 (5.8)</td>
<td>11 (5.8)</td>
<td>62 (18.4)</td>
<td>81 (21.1)</td>
<td>265 (7.8)</td>
</tr>
<tr>
<td>No</td>
<td>291 (94)</td>
<td>288 (96)</td>
<td>339 (96)</td>
<td>344 (95)</td>
<td>132 (96)</td>
<td>327 (94)</td>
<td>100 (89)</td>
<td>184 (89)</td>
<td>178 (93)</td>
<td>274 (81)</td>
<td>291 (76)</td>
<td>3101 (91.0)</td>
</tr>
<tr>
<td>Not coded</td>
<td>5 (1.6)</td>
<td>0 (0)</td>
<td>3 (0.8)</td>
<td>0 (0)</td>
<td>3 (0.9)</td>
<td>6 (5.4)</td>
<td>10 (4.5)</td>
<td>1 (0.5)</td>
<td>1 (0.3)</td>
<td>11 (2.9)</td>
<td>11 (2.9)</td>
<td>42 (1.2)</td>
</tr>
<tr>
<td>Total</td>
<td>308 (100)</td>
<td>300 (100)</td>
<td>353 (100)</td>
<td>362 (100)</td>
<td>138 (100)</td>
<td>346 (100)</td>
<td>112 (100)</td>
<td>206 (100)</td>
<td>190 (100)</td>
<td>337 (100)</td>
<td>383 (100)</td>
<td>3408 (100)</td>
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<th>8 (%)</th>
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<th>10 (%)</th>
<th>11 (%)</th>
<th>12 (%)</th>
<th>Total (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>10 (4.9)</td>
<td>121</td>
<td>38 (6.7)</td>
<td>8 (4.8)</td>
<td>14 (4.0)</td>
<td>191</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>193</td>
<td>771</td>
<td>530</td>
<td>158</td>
<td>338</td>
<td>1991</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Total</td>
<td>203</td>
<td>892</td>
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<td>2182</td>
<td></td>
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Specialty groupings: (1) general surgery; (2) urology; (3) gynaecology; (4) orthopaedics; (5) ENT; ophthalmology.

Breakdown by provider: the 13 providers have been grouped into the 12 trusts they serve. The figures given include five other procedures outwith the 20 selected for review. The specialty grouping tables only show results for the 20 selected procedures.

In general surgery, patients with expected pain had a satisfaction score of 75 compared with those with unexpected pain whose satisfaction score was 69 (χ²(1)=6.40; p=0.011). The differences in satisfaction were not notably different in patients undergoing procedures in urology; orthopaedics; ENT; and ophthalmology. Table 4 gives details of medical problems after discharge by provider unit and by specialty. A total of 783 (23%) respondents described “medical problems” after day case surgery, the majority being of a relatively minor nature. The most common were wound infection (41%), bleeding (15%), or allergy (5%). Satisfaction scores for these groups were significantly lower (score 82) than for patients who experienced no such problems (score 86) (χ²(1)=9.77; p=0.0018). Within specialties, patients with gynaecological problems had a notably higher percentage (33.3%) of medical problems than other specialties which was reflected in their satisfaction score of 74. By way of contrast, 113 of ENT and ophthalmology patients had medical problems and a satisfaction score of 85.

Feeling physically sick had a marked influence on the outcome of patients’ experience of day surgery, with those patients who were not sick (n=2872, 84%) being significantly more satisfied (score 88) than those who were sick (n=536, 16%) (score 75) (χ²(1)=48.6; p<0.0001). Patients’ return to normal function includes the ability to do normal activities such as bathing, climbing stairs, shopping, and lifting. The mean time to recovery of those patients satisfied with day surgery was 4.4 days, which is significantly shorter than those who were dissatisfied, who took on average 5.5 days to recover (t(426)=2.67; p<0.0030).

Hospital readmission/reattendence

In the questionnaire, patients were asked if they had unplanned hospital readmission or reattendence within 24 hours of discharge. Table 5 shows the results of reattendence by provider unit and by specialty. A total of 265 patients (7.8% of respondents) indicated that they had unplanned reattendence for a problem relating to their operation. Ten of the provider units had readmission rates of between 4 and 6%, but two of the providers had rates of 18% and 21%, respectively.

The satisfaction score for patients reattendening hospital was 81 which was significantly less than the satisfaction score of 86 for those not having to reattend (χ²(1)=4.48; p<0.034). Although there is a variation in readmission rates, we have no information about readmission for non-respondents, and the study population did not include all day case surgery procedures.

Within specialties, urology (13.6%) had the highest percentage of patients who required readmission with 24 hours of their original operation, ENT and ophthalmology having the lowest proportion (4%) of readmissions.

**Discussion**

This study shows that patients were largely satisfied with the care they received with an overall satisfaction score of 85%, irrespective of type of operation. Although variations in the response rates from different provider units existed, the overall response rate of 68% was considered satisfactory, given that three of the provider units had response rates of less than 60%. It was worth noting that these three units were in large urban based centres. Satisfaction scores are difficult to interpret when considering relatively minor operative procedures where, with a careful selection policy, it would be surprising if the large majority of patients did not have satisfactory outcomes. In 1991 the Audit Commission for England and Wales revealed that the majority of day case surgery patients were satisfied with their treatment and that the proportion who were dissatisfied were similar to that for inpatients.

Patient satisfaction has also to be considered in the context of the limitations of surveys using questionnaires. Virtually all surveys indicate only a few patients who expressed negative views about their care, with at least 80% of respondents usually expressing satisfaction for any given question. This may be due to a reluctance by patients to express criticisms of the NHS.

Although most patients were satisfied with the care given, the results have revealed areas requiring review by providers if patient satisfac-
tion is to remain high as day surgery expands. Patients often forget about information given verbally, but our results indicate that providing too much complex information can be just as confusing. We found a significant difference in satisfaction between those who considered adequate written and verbal explanation had been received and those who did not. Clear written instructions combined with good verbal explanations may reduce patient misunderstanding. Although attention has been given to waiting times between diagnosis and admission, little attention has been paid to waiting times during admission and up to discharge. The results revealed a significant number of patients dissatisfied with the time between admission to hospital and the actual operation, highlighting the need for an effective communication strategy to ensure that patients know what to expect.

Successful outcomes in day surgery depend on careful selection of patients, careful surgery, and careful anaesthetic. Our study has shown that one in four patients (of those who responded to the questionnaire) experienced some medical problems after day case surgery ranging from slight bleeding to being readmitted to hospital. Although the majority of these problems were relatively minor, our results have shown that it would be wrong to assume that day case surgery has no implications for patients’ ongoing care. There were notable differences between specialties for medical problems after discharge, with patients undergoing gynaecological procedures having the highest rate. This was reflected in the fact that the patients were also less satisfied, indicating that they have to be adequately forewarned about potential problems on returning home. There were variations between provider units, and it is our hope that the feedback to these units could achieve readmission rates of from 4% to 21%. Providers should examine their discharge policy and find out if patients have sufficient recovery time before discharge.

The majority of patients were satisfied with services received as a day patient, although attention has been paid to waiting times between diagnosis and admission, little attention has been paid to waiting times during admission and up to discharge. The results revealed a significant number of patients dissatisfied with the time between admission to hospital and the actual operation, highlighting the need for an effective communication strategy to ensure that patients know what to expect.

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J Bain, H Kelly, D Snadden and H Staines

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