Primary care

General practice based intervention to prevent repeat episodes of deliberate self harm: cluster randomised controlled trial

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Abstract

Objectives To evaluate the impact of an intervention based in general practice on the incidence of repeat episodes of deliberate self harm.

Design Cluster randomised controlled trial in which 98 general practices were assigned in equal numbers to an intervention or a control group. The intervention comprised a letter from the general practitioner inviting the patient to consult, and guidelines on assessment and management of deliberate self harm for the general practitioner to use in consultations. Control patients received usual general practitioner care.

Setting General practices within Avon, Wiltshire, and Somerset Health Authorities, whose patients lived within the catchment area of four general hospitals in Bristol and Bath.

Participants 1932 patients registered with the study practices who had attended accident and emergency departments at one of the four hospitals after an episode of deliberate self harm.

Main outcome measures Primary outcome was occurrence of a repeat episode of deliberate self harm in the 12 months after the index episode. Secondary outcomes were number of repeat episodes and time to first repeat.

Results The incidence of repeat episodes of deliberate self harm was not significantly different for patients in the intervention group compared with the control group (odds ratio 1.2, 95% confidence interval 0.9 to 1.5). Similar findings were obtained for the number of repeat episodes and time to first repeat. Subgroup analyses indicated that there was no differential effect of the intervention according to patient’s sex (P = 0.51) or method used to cause deliberate self harm (P = 0.64). The treatment seemed to be beneficial for people with a history of deliberate self harm, but it was associated with an adverse effect in people for whom the index episode was their first episode (interaction P = 0.017).

Conclusions An invitation to consult, sent by the general practitioner of patients who have deliberately harmed themselves, and the use of management guidelines during any subsequent consultation did not reduce the incidence of repeat self harm. A subgroup analysis that indicated that patients who had previously harmed themselves benefited from the intervention was inconsistent with previous evidence and should be treated with caution. More research is needed on how to manage patients who deliberately harm themselves, to reduce the incidence of repeat episodes.

Introduction

Deliberate self harm is a serious clinical problem in England and Wales, accounting for an estimated 140 000 hospital presentations each year. The importance of this behaviour is emphasised further by two related consequences. Firstly, 15-23% of patients will be seen for treatment of a subsequent episode of deliberate self harm within one year. Secondly, 3-5% of those who harm themselves die by suicide within 5-10 years.

Evidence on how best to manage patients who have deliberately harmed themselves is lacking. Although studies have shown that about two thirds of patients who deliberately harm themselves visit their general practitioner within 4-12 weeks of the episode, all previous evaluations of interventions to reduce repeat episodes have been based in secondary care.

We examined the effectiveness of an intervention based in primary care, aimed at reducing the incidence of repeated deliberate self harm. The intervention comprised a letter from the general practitioner inviting the patient to make an appointment to consult, and guidelines on assessing and managing patients for the general practitioner to use in any subsequent consultation.

Methods

Protocol

Recruitment of practices—We received approval from the relevant research ethics committees. We contacted practices based in the areas covered by the Avon, Wiltshire, and Somerset Health Authorities whose patients lived within the catchment areas of four general hospitals: Bristol Royal Infirmary, Southmead Hospital, and Frenchay Hospital in Bristol, and the Royal United Hospital in Bath. We included 98 (60%) of the 162 practices eligible to participate in the trial. In total, 49 practices were allocated to the intervention arm and 49
to the control arm (fig 1). All communication between the trial team and practices was by post and telephone.

**Recruitment of patients**—We identified patients eligible for inclusion in the trial from a case register for deliberate self harm that covered Avon and part of Wiltshire. Recruitment data were collected on a weekly basis from the records of the hospitals’ accident and emergency departments between 26 May 1997 and 29 February 1999 (fig 2). An episode of deliberate self harm was identified if the hospital’s medical notes confirmed that the act had been deliberate and not fatal, had been done in the knowledge that it was potentially harmful, and, in the case of drug overdose, that the harm was identified if the hospital’s medical notes confirmed that the act had been deliberate and not fatal. We excluded patients who were under 16, of no fixed abode, or imprisoned; who had requested that nobody was to be informed of the episode or had harmed themselves deliberately in response to a psychotic hallucination or delusion; or whose episode of deliberate self harm was managed entirely in primary care.

**Exclusions**—We excluded cases of alcohol (taken alone) and illicit drug overdose, except where the casualty officer felt that the purpose of the act was self harm or suicide. We excluded patients who were under 16, of no fixed abode, or imprisoned; who had requested that nobody was to be informed of the episode or had harmed themselves deliberately in response to a psychotic hallucination or delusion; or whose episode of deliberate self harm was managed entirely in primary care.

**Intervention**—At the start of each week, we identified new episodes of deliberate self harm in patients registered with practices in the intervention arm from the deliberate self harm case register. If an episode of deliberate self harm was the patient’s first within the trial period, their general practitioner was sent a letter informing them of the incident, a letter to forward to the patient (at their discretion) inviting them to make an appointment for a consultation, and a copy of guidelines for the management of deliberate self harm, which were developed for the trial (see fig 3). The general practitioners were asked to insert the guidelines into the patient’s notes so that they were available for use during consultation. Each general practitioner in the intervention arm was sent a copy of the guidelines at the start of the trial. We developed these guidelines using a formal consensus method—the modified Delphi technique—as there is no evidence from randomised controlled trials on the appropriate aftercare for deliberate self harm in general practice. The consensus group comprised general practitioners with an interest in mental health, psychiatrists, a psychologist, a specialist nurse, a voluntary worker from the Samaritans, and patients with a history of deliberate self harm. The research team synthesised the views of the consensus group to produce the final version of the guidelines.

**Usual care**—With the exception of the Royal United Hospital, Bath (where a specialist nurse had been appointed), there were no specialist services for patients who deliberately harm themselves in the hospitals from which patients were recruited. To obtain more detailed information on usual care, we used two sources of information: (a) a postal questionnaire was sent to eight practices in the control group to obtain

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**Fig 1 Practice and patient recruitment**

**Fig 2 Process of patient recruitment**
Clinical guidelines for the management and aftercare of deliberate self harm (DSH)

In England & Wales at least 120,000 people present at hospital following attempted suicide. In the following year 1-2% succeed in committing suicide, 15-30% make a repeat attempt. The time of greatest risk is 3 months after the attempt. Every year 3-4 patients from a GP’s list are admitted to hospital following DSH. DSH is the third most frequent cause for acute medical admission in the South West.

ASSESSMENT:
1. Current episode of DSH
   - Exactly what did they do (patient’s intent, precaution against discovery, premeditation, suicide note)?
   - Any previous episodes (increased risk of suicide and repetition of DSH)?
   - What Mental Health follow-up has been arranged?
2. Precipitating event or difficulty
   - Is the situation unresolved, or is it likely to recur?
3. Current suicidal risk (if yes to any of these consider referral)
   - Does the patient think that life is not worth living or does patient have a sense of hopelessness?
   - Does the patient have a suicide plan and immediate means to carry it out? Is the patient likely to act on this?
4. Psychiatric co-morbidity
   - Current depression - some associated symptoms are:
     - Disturbed sleep
     - Hopelessness
     - Fatigue or loss of energy
     - Guilt or self-reproach
     - Poor concentration / irritability
     - Disturbed appetite or weight loss
     - Agitation or slowing of movement & speech
   - Schizophrenia
   - Heavy alcohol use or use of illicit drugs
5. Any associated problems
   - Physical illness, chronic disabling, or painful conditions
   - Bereavement / other loss
   - Past psychiatric history
   - Victim or perpetrator of violence
6. Current social situation
   - Do they have an intimate confidante or are they socially isolated?
   - Have others failed to react supportively?
   - Is the patient unemployed/homeless/in financial or other difficulties?

MANAGEMENT:
1. Ask the patient what help they think they need
   - Allow time for sympathetic, non-judgemental listening. This may be all that is required.
   - Consider prompt referral for counselling or other psychological therapy.
2. General management plan
   - Consider regular monitoring of patient’s mental state
   - Encourage uptake of mental health follow-up if offered, consider referral to Social Services / housing etc, involve family / friends as appropriate
   - Help the patient identify positive aspects of their life
   - Assess potential risk to others
3. Treat any associated illnesses
   - Depressive illness:
     - Identify current life problems; focus on small, specific steps to reduce these and manage them better
     - Encourage resistance of pessimism and self-criticism with counterarguments; advise not to act on pessimistic ideas (i.e. ending marriage, leaving job)
     - Plan short term activities which give enjoyment or build confidence
     - Consider medication (prescribe limited quantities with low toxicity in people who have taken an overdose)
   - Alcohol and drugs:
     - Stress adverse effects on health via leaflets or written information
     - If patient is motivated set definite day to quit, or negotiate goal for decreased use
     - Identify family members/friends who will support stopping, see NA, AA, ACAD
     - If evidence of alcohol dependence consider specialist referral
     - Identify and avoid high risk situations; plan how to respond to friends who still use, restrict times when drugs are used, use smaller quantities
   - Pain and insomnia:
     - Provide medication in limited quantities for pain or insomnia due to physical illness, providing that patient gives undertaking not to abuse medication
     - Bereavement:
     - Allow patient to talk about deceased, and circumstances of death
     - Explain that intense grieving will fade over several months
4. Discuss strategies for coping with future urge to self harm
   - Seek help from GP or community mental health team
   - Stress GP’s or Primary Care’s 24-hour availability
5. Discuss need for further follow-up
   - eg GP / PC nurse / mental health professionals / voluntary organisation / Social Services

Sample size calculation—We needed 1920 patients to detect a reduction of five percentage points (from 15% to 10%) in the rate of repeat deliberate self harm in 12 months (giving 80% power, 5% significance level, and 40% inflation to allow for the cluster randomisation by practice). The inflation factor was calculated by using data about the size of practice populations and about admissions for deliberate self harm for practices in Avon between 1992 and 1993.

Data analyses
We carried out statistical analyses in accordance with CONSORT guideline, using Stata version 6.0. For the primary analysis, which compared the intervention and control groups on an intention to treat basis, we carried out a logistic regression analysis with repeat episodes of deliberate self harm within 12 months of the index event as the outcome variable. This analysis controlled for practice size (two categories) and quartile of rates of deliberate self harm by practice at baseline and allowed for clustering by practice, using random effects logistic regression.

We used a Poisson regression analysis to compare the intervention and control groups in terms of differences in the number of repeat episodes. We used Cox’s proportional hazards regression for time (in days) to first repeat episode. Clustering was taken into account for both of these (intention to treat) analyses.
Further regression analyses adjusted for factors with large baseline differences across randomisation groups. An explanatory analysis, excluding two groups of patients, was also carried out. Firstly, we removed patients who had a repeat episode of deliberate self harm within 14 days of the index episode—before those in the intervention group could have received and responded to the intervention letter—from both groups. Secondly, we excluded patients from the intervention group for whom a letter was not sent to the general practitioner in respect of such problems. Data about previously recorded episodes of deliberate self harm within 14 days of the index episode—before patients who had a repeat episode of deliberate self harm were available for patients attending the hospitals in Bristol.

We performed subgroup analyses, agreed on before the trial began, using interaction terms to assess whether the intervention effect on the primary outcome differed according to sex, method of deliberate self harm, and previously recorded episodes of deliberate self harm. The same approach was used for one post hoc subgroup analysis to investigate differential effects according to whether or not the patients used drugs prescribed for a mental health problem, since this might reflect an established relationship with the general practitioner in respect of such problems. Data about previously recorded episodes of deliberate self harm were available for patients attending the hospital in Bath for only 14 weeks compared with 2.5 years for patients attending the hospitals in Bristol.

For process data, descriptive statistics were used to assess patterns of consultation after the index episode, use of the intervention letter, and details of usual care. Assignment—Practices were stratified into four groups, according to the rate of deliberate self harm. To maximise comparability with respect to the availability of mental health services based in the practices that might be related to practice size and the number of individual patients across the arms of the trial, each of the four groups was divided into two further groups according to practice size (fewer than four general practitioners and four or more general practitioners). Within these eight strata, practices were allocated to intervention or control groups, using random number tables, by people blind to the practices' identities (TJP and Angela Liebenau).

Masking—The trial arm was identified after OB judged whether or not the episode met the study's definition of deliberate self harm. Although the general practitioner's name was included in the list of fields displayed in the computer printout, the assessment was made blind to direct knowledge of the randomisation group. Because of the nature of the trial, general practitioners were not blind to the patients' allocations.

Results
In total, 2084 potentially eligible patients were identified over the 21 month period of recruitment. We excluded 152 of these (fig 1).

Non-participating practices tended to be smaller and were less likely to be training practices than the

### Table 1 Characteristics of practices and general practitioners

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Intervention practices</th>
<th>Control practices</th>
<th>Non-participating practices</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(n=96)</td>
<td>(n=96)</td>
<td>(n=63)</td>
</tr>
<tr>
<td>Practices</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No (%) with &lt;4 general practitioners</td>
<td>20 (41)</td>
<td>17 (35)</td>
<td>33 (52)</td>
</tr>
<tr>
<td>No (%) training practices</td>
<td>22/49 (45)</td>
<td>18/49 (37)</td>
<td>17/63 (27)</td>
</tr>
<tr>
<td>Mean (range; SD) number of general practitioners</td>
<td>4.2 (1.8, 1.9)</td>
<td>4.3 (1.10, 2.0)</td>
<td>3.7 (1.8, 2.0)</td>
</tr>
<tr>
<td>Mean (range; SD) number of patients on list (all ages)</td>
<td>7341 (2016-17500, 3523)</td>
<td>7695 (1239-17900, 3928)</td>
<td>6274 (404-18444, 4016)</td>
</tr>
<tr>
<td>Catchment area's mean (range; SD) Townsend score*</td>
<td>−0.23 (−1.10 to 3.62, 0.47)</td>
<td>−0.40 (−1.20 to 1.10, 0.56)</td>
<td>−0.16 (−1.23 to 3.07, 0.99)</td>
</tr>
</tbody>
</table>

General practitioners:

<table>
<thead>
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<th>Control practices</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(n=96)</td>
<td>(n=96)</td>
<td>(n=63)</td>
</tr>
<tr>
<td>No (%) with no postgraduate qualifications</td>
<td>23/185 (12)</td>
<td>26/195 (13)</td>
<td>41/181 (27)</td>
</tr>
<tr>
<td>No (%) fellows of the Royal College of General Practice</td>
<td>116/185 (63)</td>
<td>123/195 (63)</td>
<td>101/181 (56)</td>
</tr>
</tbody>
</table>

*Avon only.

### Table 2 Characteristics of patients in intervention, control, and non-participating practices. Values are numbers (percentages) unless otherwise specified

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Intervention practices</th>
<th>Control practices</th>
<th>Non-participating practices</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(n=964)</td>
<td>(n=968)</td>
<td>(n=1105)</td>
</tr>
<tr>
<td>Mean (range; SD) age (years)</td>
<td>22.3 (16-83; 13.0)</td>
<td>32.8 (16-90; 13.5)</td>
<td>32.9 (16-92; 13.6)</td>
</tr>
<tr>
<td>Sex</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Men</td>
<td>383 (39.7)</td>
<td>419 (42.7)</td>
<td>477 (43.2)</td>
</tr>
<tr>
<td>Women</td>
<td>581 (60.3)</td>
<td>555 (57.3)</td>
<td>628 (56.8)</td>
</tr>
<tr>
<td>Method used to cause deliberate self harm:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Self poisoning</td>
<td>869 (90.1)</td>
<td>864 (89.3)</td>
<td>983 (89.4)</td>
</tr>
<tr>
<td>Laceration</td>
<td>76 (7.9)</td>
<td>82 (8.5)</td>
<td>105 (9.6)</td>
</tr>
<tr>
<td>Other</td>
<td>19 (2.0)</td>
<td>22 (2.3)</td>
<td>12 (1.1)</td>
</tr>
<tr>
<td>Patients with a recent recorded episode of deliberate self harm*</td>
<td>134 (13.9)</td>
<td>110 (11.4)</td>
<td>141 (12.8)</td>
</tr>
<tr>
<td>Hospital attended for index episode:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Royal United Hospital</td>
<td>209 (21.7)</td>
<td>398 (40.1)</td>
<td>334 (30.2)</td>
</tr>
<tr>
<td>Frenchay Hospital</td>
<td>220 (22.8)</td>
<td>171 (17.7)</td>
<td>198 (17.9)</td>
</tr>
<tr>
<td>Southmead Hospital</td>
<td>188 (19.3)</td>
<td>136 (14.1)</td>
<td>226 (20.3)</td>
</tr>
<tr>
<td>Bristol Royal Infirmary</td>
<td>347 (36.0)</td>
<td>273 (28.2)</td>
<td>347 (31.4)</td>
</tr>
<tr>
<td>Mean (range; SD) Townsend score†</td>
<td>0.09 (−1.10 to 3.62; 1.05)</td>
<td>−0.37 (−1.20 to 1.10; 0.62)</td>
<td>0.11 (−1.23 to 3.02; 1.20)</td>
</tr>
</tbody>
</table>

*Defined as an episode recorded in the case register from 1 October 1994 to 25 May 1997.
†Avon only.
participating practices. Fewer general practitioners in the non-participating practices had a postgraduate qualification or were fellows of the Royal College of General Practitioners (table 1). On the basis of the total catchment area for the practices in Avon, Townsend deprivation scores were similar for participating practices (mean −0.32; SD 0.74, 95% confidence interval −1.20 to 3.62) and non-participating practices (−0.16; 0.99, −1.23 to 3.07). Patient characteristics were comparable for the participating and non-participating practices (table 2). Although the control group had fewer training practices than the intervention group, other practice characteristics were reasonably well balanced between the trial arms (table 1).

Patient characteristics in the intervention and control groups differed for a recent recorded episode of deliberate self harm, general practice Townsend score (weighted by the number of patients recruited from each practice), and hospital attended for the index episode (table 2). The Royal United Hospital in Bath contributed more patients to the control group than in the intervention group (table 2).

### Primary analysis

The proportion of participants who had a repeat episode of deliberate self harm within 12 months of the index episode was slightly higher in the intervention group (table 3). Logistic regression analysis for this primary outcome indicated that this comparison was not significant (odds ratio 1.17 (0.94 to 1.47) for the intervention group compared with the control group).

The results were not noticeably different when we adjusted for clustering. The overall observed intrapractice correlation coefficient was only 0.006; little difference was seen between the randomised groups. This (observed) degree of clustering would have led to an inflation factor of 11% rather than the 40% that was anticipated. This (observed) degree of clustering would have led to an inflation factor of 11% rather than the 40% that was anticipated. This (observed) degree of clustering would have led to an inflation factor of 11% rather than the 40% that was anticipated.

### Secondary analyses

Although more repeat episodes of deliberate self harm and fewer days to first repeat episode were seen in the intervention group than in the control group, Poisson and Cox regression analyses showed that these differences were not significant (table 3). When we also adjusted for the practice’s training status, previous recorded episodes of deliberate self harm, Townsend score, and hospital attended by the patient, no appreciable impact on the result for the primary outcome was seen (odds ratio 1.14, 0.88 to 1.50). Results were similar to the primary (intention to treat) analysis after patients who had deliberately harmed themselves within 14 days of the index episode and those whose general practitioners were not sent the intervention letter were excluded (1.25, 0.95 to 1.57).

### Subgroup analyses

Subgroup analyses showed that the intervention effect did not differ by sex (interaction P = 0.51) or method of deliberate self harm (interaction P = 0.64). A similar analysis showed that the treatment effect differed depending on whether or not the patient had a previous recorded episode of deliberate self harm (interaction P = 0.017). The odds ratio for the effect of intervention in patients with a history of deliberate self harm was 0.57 (0.33 to 0.98), indicating a beneficial effect, and in those with no history was 1.32 (1.02 to 1.70), indicating a harmful effect. Since only limited data were available about previous episodes of deliberate self harm for patients from the hospital in Bath, the analysis was repeated with all patients from this hospital omitted (approximately one third of the total); the interaction for previous episodes of deliberate self harm remained virtually unaltered. The post hoc subgroup analysis showed no differential effects according to whether or not the patient used an overdose of a drug likely to have been prescribed for a mental health problem (P = 0.84).

### Analyses of process data

Information about contact with the patient (letter, consultation, or both) was obtained from questionnaires completed by general practitioners for 1385 (72%) patients. Of 612 patients in the intervention group for whom the relevant information was provided, 352 (58%) had been sent the letter inviting them to make an appointment for a consultation. General practitioners in the control group had initiated contact with only 97/642 (15.1%) patients. In both groups, nearly 60% of patients had attended a consultation within six weeks of the index episode (intervention 351/599 (58.6%), control 387/681 (56.9%).) More than two thirds of these had attended within two weeks of the index episode (intervention 239/351 (68%), control 308/387 (80%).)

In a sample of 178 patients, a greater proportion of patients in the control group left their practice than in the intervention group during the 12 months after the index episode of deliberate self harm (76 (20%) v 102 (8%).) Of these, six (8%) patients moved from a control practice to an intervention practice and five (5%) from an intervention practice to a control practice. Few patients moved out of the study area: three (4%) and two (2%), respectively, for the control and intervention groups.

### Usual care

The hospital the patient had attended generally provided general practitioners in the control arm with no structured feedback about patient management. In a sample of 185 patients in the control group, 74 (40%) were referred for psychiatric or community mental
health team care or for counselling in the 12 months after the index episode.

Discussion

We believe that this is the largest trial of the management of deliberate self harm carried out and the only study based completely in primary care. Recruitment was from a wide range of patient groups. Although we excluded patients whose episode of deliberate self harm was managed entirely within primary care, over 95% of episodes of deliberate self harm involve an attendance at a hospital’s accident and emergency department. Analysis of the characteristics of participating and non-participating practices and their patients showed that training practices and larger practices were more likely to take part in the trial. This may have meant that patients in control practices were already receiving better care than that generally received by patients in the area as a whole; this could have limited the capacity of the intervention to produce an improvement in outcome.

The intervention had no significant effect on patterns of repetition of deliberate self harm. If anything, the risk of repetition was slightly higher in the intervention group than in the control group. Although the confidence intervals around the odds ratio are fairly wide, they do exclude any important clinical benefit from the intervention.

Some evidence showed that the effects of the intervention were influenced by whether or not the subject had previously harmed themselves deliberately. Specifically, there seemed to be some benefit for the 14% of patients in the intervention group who had deliberately harmed themselves in the 2.5 years before the trial began. This subgroup effect should be treated with caution for several reasons. Firstly, the effect was in the opposite direction to that found in an earlier study in which patients with a history of deliberate self harm were less likely to benefit from being given a “green card” that offered them open access to psychiatric services in times of crisis. Secondly, the proportion of patients with a history of deliberate self harm was lower than anticipated from previous studies because of the limited period of time for which data on previous episodes of deliberate self harm were collected. Full information on a history of deliberate self harm was available for only two thirds of patients (that is, not for patients from the Royal United Hospital). With these caveats in mind, it may be that patients in the trial who experienced care from their general practitioner better than that experienced after previous episodes were more willing to turn to their general practitioner for help in subsequent crises. This finding needs to be replicated.

Limitations of the trial

The development of guidelines to be given to general practitioners had to rely largely on existing opinion on best practice and on research on the assessment and management of problems known to be associated with deliberate self harm. In line with evidence from the literature that was available when we planned the study, the guidelines included information relevant to local circumstances and acted as a patient specific reminder. They were not disseminated with an active educational intervention. Deliberate self harm is a relatively rare event for each general practitioner—the rate of deliberate self harm in the general population is approximately 30 per 10 000 per year; on average, a general practitioner will encounter six new cases per year. In our study, the mean annual number of patients recruited per general practitioner was about three. It was thought unlikely that all general practitioners in the intervention arm could be attracted to attend specific educational sessions. Furthermore, a recent study using a practice based educational programme for depression—a much more common disorder—failed to change doctors’ behaviour appreciably. Our guidelines probably enhanced the routine primary care of deliberate self harm because general practitioners have relatively little formal training in its management.

Though only a short delay occurred between the index episode and the general practitioner receiving the letter and guidelines, many patients had already consulted their general practitioner. This delay may be critical when we consider the increased risk of repeat episodes in the weeks immediately after the index event; in one study more than 10% of patients who deliberately harmed themselves again did so within one week of the index episode. Nevertheless, more general practitioners in the intervention group had initiated contact with their patients in response to the index episode of deliberate self harm than in the control group. All general practitioners in the intervention arm received copies of the guidelines at the outset of the trial and once a patient who deliberately harmed himself or herself had been identified. Receipt of the guidelines for previous patients may have influenced the management of “early attending” patients, even if the general practitioner had not received the guidelines and letter for that particular patient.

Our trial was pragmatic; the obstacles to its potential success were those that would arise if such a system was introduced in the service setting. Nevertheless, the implementation of the intervention showed that a more efficient form of communication with general practitioners is needed. An intervention aimed at reducing the incidence of repeat episodes of deliberate self harm must be initiated within one or two days of
Commentary: Clinical guidelines have limitations

Richard Morriss

Bennewith et al provide further evidence that the provision of centrally derived clinical guidelines to general practitioners may be insufficient to improve the outcome of patients with mental health problems. The problems with the intervention in Bennewith et al’s trial amount to more than how quickly guidelines to prevent deliberate self harm were sent to general practitioners. The intervention resulted in many more interviews with patients who committed deliberate self harm being initiated by general practitioners, but just as many patients who deliberately harmed themselves consulted their general practitioners and received mental health care in the group of patients who received usual treatment. Did the trial change the management of patients in the control group so that general practitioners referred more patients for mental health care to prevent suicide as a result of increased awareness surrounding the research? Did the hospitals routinely tell the patients to seek help from their general practitioners or to ask their general practitioners for a referral for mental health care? Are the patients who were seen by general practitioners or mental health providers in the intervention and control groups the patients at highest risk of episodes of deliberate self harm in the future?

The data from Bennewith et al suggest that the conclusions of a systematic review on changing doctors’ behaviour,1 and, more specifically, a review about improving the mental health skills of general practitioners,2 are sound. Centrally derived guidelines can improve knowledge and remind doctors about aspects of practice with which they have previously been familiar. However, guidelines may have a modest effect on changing the doctor’s performance, especially when the doctor needs to develop technical skills, the doctor is not confident about how to implement the...
guidelines, or the guidelines do not fit easily with the doctor's usual practice. The intervention for deliberate self harm in the appendix (see bmj.com) for the study by Bennewith et al requires advanced communication and mental health management skills from the doctor. Centrally derived guidelines do not give models on how to use these skills, opportunities to practice them under supervision, or opportunities for general practitioners to explore how they might be compatible with their perception of the needs of the patient and their usual practice. A model of providing skills based training to improve the primary care team's assessment and management of people at risk of suicide, using academic detailing to deliver the training at a time and place convenient to the team, has been shown to be feasible; a similar form of educational intervention showed lasting improvements in the management of health problems in adolescents.

A final note of caution stems from another recent trial showing that only 22% of episodes of deliberate self harm resulted in treatment at accident and emergency departments. Unsuspected outcomes of interventions for deliberate self harm, including suicide, may be missed if studies do not include patients whose episodes of deliberate self harm do not result in hospital care.