

## Calling the GP surgery:

patient burden, patient satisfaction, and implications for training

### Abstract

#### Background

Good communication is central to the effectiveness of GP service provision, as well as to patient satisfaction with surgeries, but very little is known about the actual communication that occurs between patients and surgeries.

#### Aim

This study was carried out to examine, for the first time, how receptionists interact with patients on the telephone, to identify features of communication associated with efficacy and patient satisfaction.

#### Design and setting

A qualitative conversation analysis of incoming patient telephone calls, recorded 'for training purposes', in three English GP surgeries.

#### Method

Data were analysed qualitatively to identify effective communication, then coded to establish the relative prevalence of communication types across each surgery.

#### Results

Analysis identified a burden on patients to drive calls forward and achieve service. 'Patient burden' occurred when receptionists failed to offer alternatives to patients whose initial requests could not be met, or to summarise relevant next actions (for example, appointment, call-back, or other query) at the end of calls. Coding revealed that 'patient burden' frequency differed across the services. Increased 'patient burden' was associated with decreased satisfaction on published satisfaction survey scores.

#### Conclusion

Patients in some practices have to push for effective service when calling GP surgeries. Conversation analysis specifies what constitutes (in)effective communication. Findings can then underpin receptionist training and improve patient experience and satisfaction.

#### Keywords

communication; evaluation; general practice; medical receptionist; patient satisfaction.

### INTRODUCTION

Given the centrality of GP receptionists to patients' experiences of their GP surgery, as well as access to primary care, there is surprisingly little research on telephone calls between receptionists and patients. Survey-based research shows that the helpfulness of the receptionist, along with communication with the doctor, is the most important driver for satisfaction among UK patients.<sup>1</sup> However, little is known about what constitutes such helpfulness; that is, evidence of what needs to change to improve patient experience regarding access to their GP. Issues of 'experience' and 'satisfaction' are routinely addressed using post-hoc surveys or focus groups and interviews.<sup>2</sup> The disadvantage of such methods is that they do not tell us what and how problems occur in actual patient–healthcare provider encounters. Practitioners struggle to identify and action changes based on survey feedback alone,<sup>3</sup> and knowing what to improve can be based on 'hunches' or 'best guesses'.<sup>4</sup> The objective of this study is to analyse how receptionists interact with patients and to identify effective practice that can then inform receptionist training. So far, ethnographic research has explored the range of tasks in which receptionists engage (for example, allocating patient appointments, relaying test results, managing repeat prescriptions), some concluding that the complexities and constraints in the receptionists' job affect their ability to facilitate patient access.<sup>5–7</sup> Although previous research identifies

what might be perceived as challenging in receptionist–patient interactions, it does not identify how these challenges are dealt with more (or less) effectively; that is, what should receptionists in poorly performing surgeries be trained to do, to improve? The starting point in the present research is that front-line receptionists provide opportunities for good and bad experiences in the way they handle, for example, external constraints such as the availability of appointments and access to test results.

To the best of the authors' knowledge, only Hewitt and colleagues have studied receptionist–patient encounters in this way, and they examined face-to-face front-desk communication rather than incoming calls.<sup>8</sup>

### METHOD

#### Setting and participants

Incoming telephone calls between patients and receptionists (2780) were audiotaped from three GP surgeries in England in October 2014. Neither patients nor receptionists were aware they were being audiorecorded beyond the normal 'awareness' of such calls being monitored (ethical clearance was granted by the NHS for the evaluation of the data). The recordings were anonymised digitally (swapping names of patients, surgeries, and locales for fictional alternatives).

Table 1 provides a summary of GP surgery characteristics, including the number of receptionists and patients, number of telephone calls collected, and deprivation index (from the English Indices

**E Stokoe**, PhD, professor of social interaction;  
**RO Sikveland**, PhD, research associate, Department of Social Sciences, Loughborough University, Loughborough. **J Symonds**, PhD, research associate, School for Policy Studies, University of Bristol, Bristol.

#### Address for correspondence

Elizabeth Stokoe, Department of Social Sciences, Loughborough University, Ashby Road,

Loughborough, LE11 3TU, UK.

**E-mail:** e.h.stokoe@lboro.ac.uk

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### How this fits in

Patients' first point of contact with general practice is the doctor's receptionist, often over the telephone. Very little is known about these encounters or what might underpin patients' experience of good or bad service. In some practices, patients have to push to get effective service from receptionists. Alleviating the burden on patients through particular communication strategies is likely to improve patient satisfaction.

of Deprivation 2015).<sup>9</sup> All three surgeries operated with online as well as telephone services for booking appointments, but most of the enquiries are made over the phone (Table 1).

### Data analysis

From each surgery, the first 150 calls (according to recording time) were selected for detailed analysis. In total, 447 calls were analysed (three calls were excluded as they were calls from other professionals). All selected calls were transcribed verbatim, and extracts for conversation analysis (CA) were transcribed using the standard system for CA, which encodes phonetic information about the way talk is delivered.<sup>8,10</sup> Simplified extracts are presented in the Results section. The analysis begins with repeated viewing or listening to recorded data, with the technical transcript. It proceeds with systematic analysis of the activities that comprise the complete interaction (for example, greetings, requests, or offers) and shows how the design of an activity places constraints on the ways that responses can be made. By analysing the sequence of conversation turn by turn, CA can assess participants' understandings within the interaction itself, rather than from analysts' a priori interpretations of what is happening.

**Table 1. Overview data of the three GP surgeries (GP1, GP2, GP3)**

	GP1	GP2	GP3
Total number of receptionists (number of receptionists audiotaped in brackets)	9 (9)	9 (8)	10 (10)
Total number of patients	5987	7691	10 943
Proportion of appointments booked over the phone	96%	92%	91%
Index of Multiple Deprivation (2015; in deciles, lower numbers indicate higher level of deprivation)	7	3	4
Number of calls collected for this study	613	582	1585
Number of calls selected for analysis (final number of calls reported in quantitative analysis)	150 (149)	150 (148)	150 (150)

On the basis of initial analysis, a set of coding questions and response alternatives was developed. The range of questions about appointment-making included whether the patient was able to get an appointment, what type of appointment it was, and whether or not patients had a preferred GP. Figure 1 gives an overview of the enquiries made in the data. The labels most relevant to this study and their  $\kappa$  values for inter-rater reliability are summarised in Appendix 1. The inter-rate reliability score on 20% of the calls between two coders resulted in a  $\kappa$  score of 0.78. This is regarded as 'substantial agreement' and very near the 'perfect agreement score' above 0.80.<sup>11</sup> The labels were compared between the surgeries using  $\chi^2$  tests.<sup>12</sup>

### RESULTS

A 'burden' on patients to push for effective service was identified in two main phases of the telephone calls. The first was near the start, in which first requests were not met by receptionists. The second was at the end of calls, when the appointment or service had been completed but some detail remained unclear to the patient. In these cases, receptionists moved to close calls prematurely, leaving patients needing to push back into the call for additional information or confirmation. Examples of each type of burden are provided and of how more effective receptionists acted to anticipate or remove such burdens.

#### Receptionists offer or fail to offer alternative courses of action

In Extract 1, the patient (P) calls the surgery and asks the receptionist (R) for an appointment. Numbers in brackets represent timed gaps in seconds between turns. The figure after the practice indicates the number of the call — for example, below, call number 14 out of 150 calls from GP3:

(1) GP3–14

- 1 **R:** Good morning, surgery Cath
- 2 speaking,
- 3 (1.6)
- 4 **P:** Hello have you got an
- 5 appointment for
- 6 Friday afternoon or teatime please.
- 7 (0.4)
- 8 **R:** This Friday.
- 9 (1.1)
- 10 **P:** Yeah,
- 11 **R:** Uh I'm sorry we're fully booked
- 12 on Friday.
- 13 (1.6)
- 14 **P:** Right.

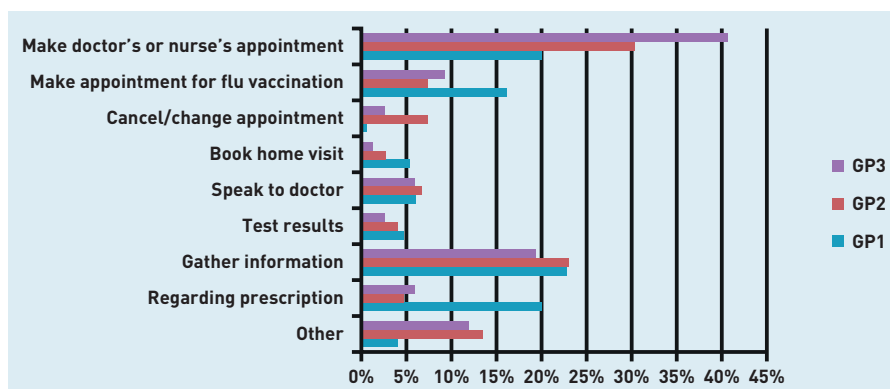


Figure 1. Overview of patient enquiries in the analysed recordings.

15 (0.3)  
 16 R: (We're) fully booked.  
 17 P: Okay,  
 18 (0.3)  
 19 R: Okay.  
 20 (0.4)  
 21 P: Yeah, uh okay, [uhm,]  
 22 R: [Than]k yo[u]  
 23 P: [Is] it  
 24 worth me ringing Flaxton.  
 25 R: We're fully booked this Friday at  
 26 Flaxton I can see, wi- we don't  
 27 open  
 28 Fri[day afternoon] ns at Flaxton  
 29 P: [As well.]  
 30 R: It's just Friday mornings.  
 31 (0.6)  
 32 P: Oh right, [ o ]kay.  
 33 R: [yeah.]  
 34 R: Sorry we're [fully booked] there.  
 35 P: [Thank you.]  
 36 (0.3)  
 37 R: Okay.  
 38 (0.4)  
 39 P: Thanks.  
 40 R: Thank yo[u. ]  
 41 P: [By][e.]  
 42 R: [B ]ye, bye.

Having requested an appointment (lines 4–6), R checks which Friday P is referring to and then tells P that they are 'fully booked' (lines 11 and 12). At line 13, a gap of 1.6 seconds opens up, in which R could offer a different date (or make an alternative action to, for example, ask about urgency). In other words, R could progress the call to a conclusion that involves giving a better service for P. R moves, however, to close the call ('[ ]' represents overlapping talk).

R reiterates that they are fully booked (line 16) and moves to close the call ('Okay' and 'thank you', lines 19, 22). P sounds reluctant to close (line 21). At lines 21–23, she pushes back into the call, overlapping the end of R's turn, to ask if it is worth calling the sister surgery. This is the phenomenon of interest:

rather than R offering an alternative course of action, the burden is on P to keep the call going and push for service. P's alternative suggestion is also rejected, however, by R (lines 25–28).

R rejects the possibility of P getting an appointment at Flaxton, again without offering any alternative course of action. This time P goes along with R's closing.

It is striking how R initiates a closing without any alternative proposal being made. Such an alternative is treated as absent by P who pushes for one. This kind of 'patient burden' was common across the dataset. More effective receptionists made immediate alternative offers when the patient's first request could not be met ('=' represents rapid transitions between turns), as in Extract 2:

[2] GP1–143

1 R: Good morning, Limetown Surgery,  
 2 P: =Good morning, Could I have an  
 3 appointment to see  
 4 Doctor Wilkinson please=  
 5 R: =.ptkhhh hh uh:m let me see when  
 6 the next available  
 7 one is.=I don't think I've got  
 8 anything pre bookable  
 9 this week .h[hh ] d'you want me=  
 10 P: [[uhum]]  
 11 R: =to look for the week after.

Following P's request for an appointment, R informs her that Dr Wilkinson is not available to pre-book during the current week. Rather than let a silence open up or initiate a closing, however, R moves immediately to offer to look for appointments the week after (lines 5–8).

#### Receptionists confirm or fail to confirm appointments and next actions

Patients often attempted to reopen receptionist-initiated closings, to raise further business (for example, confirming what will happen next). In Extract 3, P has called about results from an X-ray that have not arrived:

[3] GP1–5

1 R: .pthhhhh I probably- uh so I'd  
 2 probably give it to the  
 3 middle of this week,  
 4 R: uhm cos it's only been a week  
 5 tomorrow,=has it,  
 6 (1.4)  
 7 P: Right  
 8 (0.2)  
 9 R: Uhm and then we'll start to  
 10 chase it up if we've still  
 11 not heard anythin'.

12 (0.3)  
 13 **P:** [.hh] Okay.  
 14 **R:** .ptk All right?  
 15 **P:** Uh when shall I ring.  
 16 [Tomo[rrow or-(m), ]  
 17 **R:** [(.hh) [So if you give ] us a call  
 18 tomorrow afternoo:n  
 19 (.)  
 20 **P:** Okay.  
 21 (0.2)  
 22 **R:** All right?  
 23 **P:** All right [then. ]  
 24 **R:** [THAn]k you.=  
 25 **P:** =Tha[nks,=bye.  
 26 **R:** [Bye  
 27 (0.6)  
 28 ((hang up))

The receptionist suggests that P waits until the middle of the week (lines 2–3), and that they will otherwise ‘start to chase it up’ (lines 9–11). P accepts this offer (‘Okay’), which is followed by R’s closing-implicative ‘All right?’. What is missing, however, is precisely who should call whom and when next, which P asks about subsequently.

Instead of joining in with R’s closing moves, P seeks to specify when to best get in touch, asking ‘Uh when shall I ring’ and suggesting ‘tomorrow or-’ (line 16). In other words, it is not clear to P how to interpret ‘middle of this week’. Following R’s suggestion of a time to call back, P accepts (line 20) and R initiates call closing (line 22). This time, P joins in with the closing. But the burden is on P to push for this confirmation and to make the follow-up call.

In over half of the appointment-making calls, receptionists summarise appointments only in response to patients pushing for such confirmations. Extract 4 is one example, where P has made an appointment and now R asks for his address.

#### (4) GP2–28

1 **R:** What’s your address please.  
 2 (0.6)  
 3 **P:** Eighty four Tern Way.  
 4 **R:** Okay then,  
 5 (0.5)  
 6 **P:** [So it’s th- ]  
 7 **R:** [Thank you,]  
 8 (0.5)  
 9 **P:** That’s the sixteenth?  
 10 **R:** =The sixteenth, [at ten pa ]st  
 eleven.  
 11 **P:** [Okay then.]  
 12 (0.3)  
 13 **P:** Ten past eleven, thank you.  
 14 **R:** Thank you,  
 15 (0.2)

16 **P:** T[hank you,]  
 17 **R:** [ Bye . ]  
 18 **P:** =Bye.

Here, R treats the call as completed (lines 4 and 7), but P wants his appointment confirmed (lines 6 and 9). Like Extracts 1 and 3, there is a ‘crash’ in the call, where both speakers talk in overlap, and therefore pursue different actions to complete. Here, R attempts to close the call while P, in overlap, opens up further business.

As an example of a better call ending, Extract 5 shows how receptionists can remove the burden on patients by confirming appointment details:

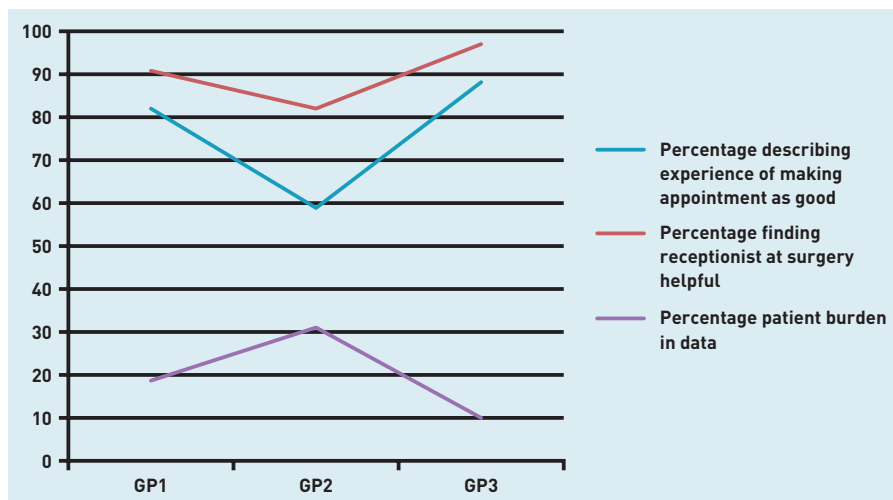
#### (5) GP1–143

1 **P:** .thh Do you want my surgery  
 2 number=.hh (0.5) It’s  
 3 uhm three eight five seve[n, ]  
 4 **R:** [Lov]ely,  
 5 (.)  
 6 **R:** That’s grea:t,  
 7 (.)  
 8 **R:** .hhh Okay,=So that’s eight fifty on  
 9 Wednesday the eighth  
 10 for you,  
 11 **P:** Right? Thank you very [much,  
 12 **R:** [Okay,  
 13 **R:** [Bye,  
 14 **P:** [Bye bye.  
 15 (0.3)  
 16 ((hang up))

R confirms P’s appointment details (lines 8–9). Some evidence for P’s satisfaction comes in her response ‘thank you very much’, in contrast with truncated ‘thanks’ (Extract 1, in which no appointment was made) or ‘thank you’ (Extract 4, in which P had to push for confirmation). These internal measures of satisfaction are interesting; patients ‘thank’ receptionists in almost every call regardless of whether they have obtained the service they want, but more effusive thanks are present in more effective calls.

#### ‘Patient burden’ and satisfaction

Conversation analysts identify, from the internal workings of interaction, (in)effective practice. ‘Patient burden’ and its resolution constituted (in)effective communication in patient–receptionist interaction. To provide external corroboration for these endogenous measures, satisfaction scores were collected from the GP patient survey for the three surgeries (<https://gp-patient.co.uk>), using the January 2015 survey because of temporal proximity of fieldwork with time of telephone recording. Two



**Figure 2. Satisfaction scores from the GP patient survey, for three surgeries, compared with 'patient burden'.**

items were the focus: 'X% describe their experience of making an appointment as good' and 'X% find the receptionist at this surgery helpful'.

GP3 had the fewest instances of 'patient burden' (15/150 calls), followed by GP1 (28/149 calls) and GP2 (46/148 calls). The difference between the services regarding 'patient burden' was statistically significant ( $\chi^2 = 16.337$ , degrees of freedom = 2,  $P < 0.001$ ). Comparing the relative frequency of 'patient burden' across three surgeries, a strong association was found with the independent patient satisfaction scores. Figure 2 shows that GP3, with the lowest 'patient burden', scored the highest on the survey (88% for 'experience of making an appointment'; 97% for 'finding the receptionist helpful'), followed by GP1, with more 'patient burden' (82% for 'experience of making an appointment'; 91% for 'finding the receptionist helpful'), and GP2, with the most 'patient burden' (59% for 'experience of making an appointment'; 82% for 'finding the receptionist helpful').

## DISCUSSION

### Summary

The main finding of this study is that receptionists can increase or decrease the burden on patients to achieve effective service at the GP surgery. It identifies one aspect of what constitutes effective communication in GP receptionists' telephone encounters with patients. Less effective receptionists failed to offer alternative courses of action when they could not meet patients' first requests, leaving the burden on patients to drive the call forward. They also closed calls prematurely, before confirming the details of next actions (for example, the time and date of appointments). In the more effective

calls, receptionists made alternative offers and summarised patients' appointments or confirmed what would happen next. Higher frequency of 'patient burden' was associated with lower published patient satisfaction scores. Before conducting this study, it was known that surgeries offering basically the same service differed in their satisfaction ratings. But, without looking at the data, how would one know what made the difference?

### Strengths and limitations

The study's strengths are in its analysis of actual, real-time encounters to identify effective practice, rather than relying on post-hoc reports of or surveys about communicative encounters. Practitioners struggle to identify and action changes based on survey feedback alone.<sup>3</sup> Social scientists have shown repeatedly that accounts elicited in focus groups, surveys, and interviews cannot reproduce interactional specifics.<sup>13</sup> By instead focusing on real-time encounters, gaps between patients' frustrations regarding access and often unreliable survey methods can be filled.<sup>14</sup> Although data were gathered from only three practices, what is identified as effective could well be relevant beyond them. In the future more statistically-centred studies, based on a larger group of surgeries, could further demonstrate the relationship between patient satisfaction and particular features of patient-receptionist encounters, and test the effectiveness of changing these encounters accordingly.

### Comparison with existing literature

In the authors' knowledge there are no other studies of patient-receptionist telephone enquiries, but a study of face-to-face front-desk talk found that receptionists are typically direct and task-focused, rather than rapport-building.<sup>8</sup> It is argued that patients appear most satisfied when service is offered quickly and pre-emptively, rather than in response to pushing for it, which is a more specific finding.

### Implications for research and practice

The study has implications for training receptionists. Key 'trainables' are to confirm appointment details or next actions at the end of calls and offer alternative courses of action if patients' initial request cannot be met. Although existing training is broad and of little practical value,<sup>14</sup> the present study demonstrates how conversation analytic research can underpin such interventions.<sup>15</sup>

### Funding

The evaluation was funded by the Higher Education Innovation Fund via Loughborough University and by NHS North Derbyshire CCG.

### Ethical approval

Consent was granted by the National Research and Ethics Service to use the calls for 'service evaluation/improvement methodologies', in line with national guidance, and the study was granted ethical consent from the research governance office at Loughborough University (ref: C15–18).

### Provenance

Freely submitted; externally peer reviewed.

### Competing interests

The authors have declared no competing interests.

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## Appendix 1. Coding categories, the inter-rater reliability ( $\kappa$ ) scores, and $P$ -values from $\chi^2$ tests comparing the three surgeries (significance level 0.05)

Category	Labels	$\kappa$	$\chi^2$ -test ( $P$ -value)
Does receptionist require caller to repeat any information at any point in the call?	2: No, Yes	0.82	No significant difference $P = 0.28$
Does receptionist make an offer as part of the request response?	3: No, No + Offer, Yes	0.72	No significant difference (offer versus no offer) $P = 0.62$
How does the caller treat the receptionist's response?	5: Silence, acceptance, problem accepting, problem understanding, no opportunity	0.69	No significant difference (silence, problem accepting/understanding versus acceptance or no opportunity) $P = 0.32$
Does receptionist offer an alternative or suggest a future action following an initial non-granting of request?	2: No, Yes	0.78	GP1 and GP3 more likely than GP2 to offer alternative: $P = 0.007$
Who progresses request after receptionist's first response?	2: Receptionist, patient	0.84	GP3 more likely than GP1 and GP2 to progress call $P < 0.001$
Is there a problem about whether the task is complete when receptionist starts to close the call?	3: No problem, problem (patient clarifies), problem (patient closes down, receptionist re-opens)	0.73	No significant difference (no problem versus patient clarifies) $P = 0.14$
Does receptionist make a restatement of arrangements?	3: No (nobody does), Yes, No (patient does)	0.78	GP3 more likely than GP1 and GP2 to restate arrangements $P = 0.003$
Does the receptionist say thank you first, in closing of call?	3: No (nobody does), Yes, No (patient does)	0.85	GP3 patients tend to say 'thank you' first more frequently than GP1 and GP2 (non-significant) $P = 0.07$
Patient burden	2: Yes, No	0.78	More overall patient burden in GP2 compared with GP1, and in GP1 compared with GP3 $P < 0.001$