

# Welcome and I'll See You Again or Hello and Goodbye?: Communicative Behaviour of Medical Residents in the First and Last Moments of Consultations

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**Objectives.** To describe the communicative behaviour by residents at the beginning (reception and first seconds after obtaining information) and closing of the consultation and to evaluate in what way very early interruptions in the patient monologue affect within-consultation results, such as the duration of their closing and the appearance of new concerns in this phase.

**Design.** Descriptive observational study.

**Setting.** Primary care clinics.

**Participants.** Thirty seven third year residents of family medicine and 307 patients with incidental problems.

**Material and method.** All the consultations were videotaped and analysed by 2 trained observers who used previously validated established ad hoc procedures.

**Results.** The reception and closing of the consultations by the residents were very short and very poorly communicated since they used very few relational abilities. Half of the doctors redirected the initial discourse of the patient very early on (in 16 sec) and this was significantly associated ( $P=.03$ ) with new concerns by the patient at the time of closing and with longer goodbyes ( $P=.001$ ).

**Conclusions.** The conduct of the residents in the moments studied surely limits their ability to establish and maintain a clinical relationship, to obtain information and explain what they are giving to the patients. The dysfunctional closures are most probable when the doctor assumes a dominant role very early: this behaviour does not shorten the consultations.

**Key words:** Physician-patient relationship. Primary care. Trainees. Consultation closure.

¿BIENVENIDO Y HASTA LUEGO U  
 HOLA Y ADIÓS?: CONDUCTAS  
 COMUNICATIVAS DE LOS MÉDICOS  
 RESIDENTES EN LOS MOMENTOS  
 INICIALES Y FINALES DE LAS  
 CONSULTAS

**Objetivos.** Describir las conductas empleadas por los residentes en los momentos iniciales (recibimiento, primeros segundos de la obtención de información) y finales de las consultas y valorar en qué medida interrupciones muy precoces de estos a los pacientes afectan algunos resultados intraconsultas como la duración de los cierres o la aparición de nuevas demandas en esta fase.

**Diseño.** Estudio observacional, descriptivo.

**Emplazamiento.** Consultas de atención primaria.

**Participantes.** Treinta y siete residentes de medicina de familia de tercer año y 307 pacientes con problemas incidentes.

**Material y método.** Todas las consultas fueron videograbadas y analizadas por dos observadores entrenados que usaron protocolos establecidos ad hoc previamente validados.

**Resultados.** Los residentes realizaron recibimientos y cierres de consulta muy breves y comunicativamente muy pobres ya que emplearon muy pocas habilidades relacionales. La mitad de los médicos redirigen muy precozmente el discurso inicial del paciente (en 16 s) y esto se asoció significativamente ( $p = 0,03$ ) a nuevas demandas del paciente en el momento del cierre y con despedidas más prolongadas ( $p = 0,001$ ).

**Conclusiones.** La conducta de los residentes en los instantes estudiados seguramente limita su capacidad para establecer y mantener la relación clínica, obtener información y aclarar la que dan a los pacientes. Los cierres disfuncionales son más probables cuando el médico tiene conductas dominantes muy precozmente; estas conductas no acortan las entrevistas.

**Palabras clave:** Formación médica. Relación médico-paciente. Entrevista clínica.

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## Introduction

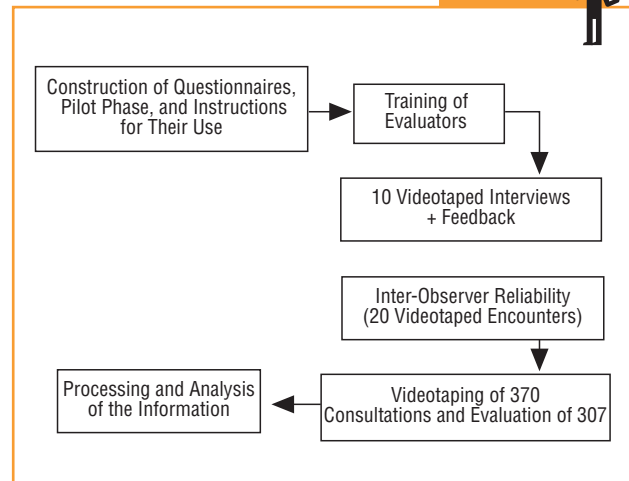
The clinical consultation as communicative interaction has been the objective of different types of studies. These have helped us understand some of the more significant relational processes in a clinical act and among which stand out is the way in which the professional and the patient interchange information, how it produces motivation and co-responsibility by the patient in the taking of decisions, or in the acceptance of responsibilities, or the different ways in which some of the most common communication conflicts arise and are resolved.<sup>1,2</sup>

The most frequently used observational strategy for this type of analysis used to be the identification of certain behaviours throughout the complete interview or in particular times during this. However, there are some phases of the consultation where the information is very scarce. Thus, there are very few studies which tackle how the professional and patient behave at the time of entering and leaving the consulting room. This is mainly because these moments are traditionally not considered important for the development of the clinical tasks. It seems that the entering and leaving has more social content, but for precisely for this reason, these moments can be important to establish or strengthen the relationship between the professional and the patient and to receive information of a different nature. There are practically no observational studies on how the start of the consultation develops and the few studies on the ending, carried out in clinical environments very different from ours, have highlighted the importance of these final moments; among other tasks, resume the consultation, check the understanding of or clarify the plans agreed.<sup>3,4</sup> We know the importance of the first moments of a consultation for the process of obtaining information.<sup>5,6</sup> In our environment, we have no studies available which give information on the conduct of the professionals in these particular moments of the consultation, for this reason the objective of this work has been to characterise the initial moments (reception, first seconds of receiving information) and the end of the consultation, carried out by medical residents and evaluate in what way very early interrupting of the patients by the residents affect some of the intra-consultation results, such as the length of the closing or the appearance of new concerns in this phase.

## Patients and Method

The descriptive observational study was carried out in primary care clinics attended by third year residents (R3) in family medicine. The patients came to the clinics for a new clinical problem. The study protocol was approved by the Clinical Research Ethics Committee of the Queen Sofia University Hospital of Cordoba. The residents and the patients were informed of the objectives of

### Material and methods



### General Scheme of the Study

Descriptive observational study of videotapes of consultations carried out by medical residents and evaluated by trained investigators.

the study and their consent was requested. All the interviews were recorded in their entirety.

Based on the medical literature on the subject,<sup>1,3,7,8</sup> on our experience as doctors and teachers, and in a pilot study carried out with 15 clinical interviews, we drew up 2 protocols or patient report forms for the analysis of the 3 phases of the consultation studied: 1) the reception (which is identified as the time from when the patient enters until the doctor invites the patient to talk about his/her problem: what is wrong? Or similar: 2) the first moments of taking information; up to the first 2 minutes or until the patient spontaneously stops talking or it passes to another phase of the visit such as a physical examination, the doctor gives information...); and 3) the closing (from the end of any phase of the visit such as obtaining or giving information, to prescribing, to educate, e.g. "Fine...well, then we agree, well Antonio, that's all..." until the patient leaves the consulting room). Later, the 2 observers received specific training using 10 real clinic visits which outlined discrepancies. The inter-observer reliability was measured by means of 20 new interviews and obtaining the kappa coefficients for the qualitative items and the within class correlation coefficients for the quantitative ones. Except for visual contact, the remaining 14 items of the reception had good kappa coefficients. Of the 10 items of the initial information gathering phase 2 were excluded due to low reliability (eye-to-eye contact and encouraging narratives). Of the 17 items in the closing phase, only 2 were excluded owing to having low kappa values.

All the R3 participated in the study (37 R3, 26 males). Three hundred and seventy clinical interviews were completed with patients who agreed to take part and who presented with incidental problems. Finally, 307 of the consultations were of good audiovisual quality. Following Marvel et al,<sup>6</sup> we called any intervention carried out by the doctor before the patient finished what he/she was saying on a problem, and which caused this to

change the thread of this discourse, a “redirection” (instead of interruption). The total time of the consultation, the closing, and any patient comment on a new problem or new information or doubt on the reason for the consultation during the closing, was recorded.

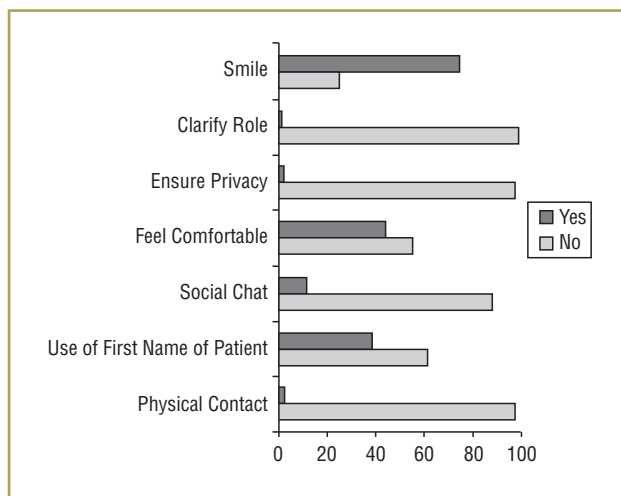
Descriptive and bivariate descriptive statistical analysis was performed ( $\chi^2$  and the Student  $t$  test:  $P < .05$ ) using the Windows SPSS version 11.0 statistics package.

## Results

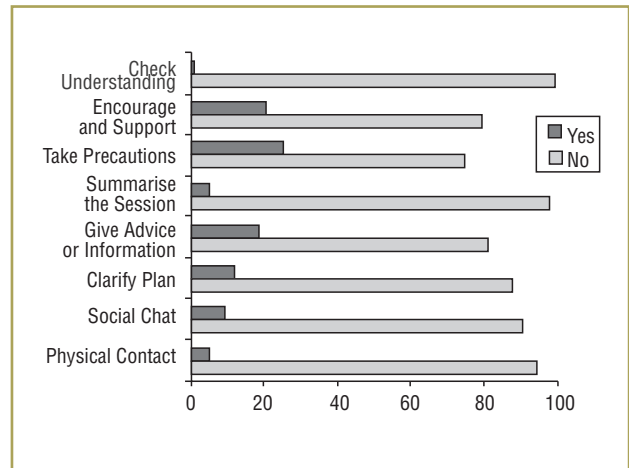
The R3 had a mean age of 28 years (range, 26–32 years), 70% of whom were males. Of the 307 interviews analysed, 125 (41.5%) patients were accompanied. The mean duration of the consultation was 7 min 39 s (95% confidence interval [CI], 7 min 14 s–8 min 3 s; median, 7 min), with a mean duration of the reception of 17 min 80 s (95% CI, 15 min 72 s–19 min 89 s; mean, 11 s) and the closing of 22 min 80 s (95% CI, 17 min 73 s–27 min 86 s; median, 10 s).

The conduct performance in the reception phase is shown in Figure 1. It highlights a group of conducts with a very high percentage of non-use (near or higher than 90%): physical contact, social chat, assuring privacy, and clarifying role. Less than 50% of the residents smiled and made the patients comfortable and greeted the patients in practically all the consultations, as a general rule, curtly and verbally.

In 21.3% of the interviews (65 patients) a comment made by the patient at the time of reception, which was different to the main reason for consultation, was recorded. Of these, 16 made reference to their health problems, 9 offered potential information about the professional, 8 on the patient himself and in a socio-familial context, 2 on the



**FIGURE 1** Resident conduct in the reception phase.



**FIGURE 2** Resident conduct in the closing phase.

health system, 16 other types of information and 4 were different combinations of the previous options. The resident did not respond to the majority of the comments.

The average time analysed in the first seconds of obtaining information on the reason for the consultation was 1 min 15 s  $\pm$  35 s (median 1 min 10 s). The monologues of the patients, which were completed, lasted an average of 16.77 s  $\pm$  16.76 s. Likewise, in 53.4% of the interviews the resident redirected the initial conversation of the patient. The median time to make this redirection was 16.5 s and its range was 2 s to 1 min 50 s. The most frequent method which the residents used to interrupt and redirect the monologue of the patient was by using closed questions (80%). However, they also interrupted with comments (9%).

In 85% of cases, the closing phase was initiated by the resident. The conduct performance by the doctor in this phase recorded in the case report forms is shown in Figure 2. At the time of closing 7.5% of patients or their companion made social chat, 17.5% brought up a new problem and 12.7% and 15%, respectively, commented on something new or brought up a new doubt on their problem. The number of consultations where the doctor redirected the initial comment of the patient and its relationship with new comments which were made at the closing and the duration of the consultation and closing, is shown in Table.

## Discussion

This study is the first attempt in our country that describes how medical residents behave during the initial moments and at the time of saying goodbye to their patients. It is important to make one thing clear, to characterise

**TABLE 1** **New Patient Comments in the Closing Moments and Their Relationship to the Redirection of the Patient Conversation by the Doctor and Duration of Consultation and Closing Phases\***

	Redirection		P
	No. (%)	Yes (%)	
N=307	143 (46.6)	164 (53.4)	
Appearance of a new problem 54 (17.5%)	18 (12.6)	36 (22)	.03
New information about their problem 39 (12.7%)	20 (14.0)	19 (11.6)	NS
New doubt about their problem 46 (15%)	24(16.8)	22 (13.8)	NS
Duration of consultation, mean±SD	7 min 37 s±3 min 45 s	7 min 40 s±3 min 32 s	NS
Duration of closing, mean±SD	15 s±16 s	60 s±94 s	.001

\*NS indicates not significant; SD, standard deviation.

these moments, the environment which produces the clinical consultation must be taken into account. Our results make reference to a clinical environment of a primary care consulting room, carried out by a resident. We do not know to what extent the behaviour may appear more or less the same in other places (emergency department, hospital ward, home, etc). This is a descriptive study in which an examination of possible relationships has been carried out, therefore the influence of possible confounding factors, among them the influence of other behaviours which the doctor uses throughout the interview, cannot be discounted.

*The Opening Moments*

There are not many observational studies which look at these moments of a consultation, particularly the reception, therefore we have not found any operational definition of this. Working groups with family doctor teachers have highlighted some of the communication conduct which should be present in the consultation and within this, the cordial welcome, eye to eye contact, physical contact, smiling, making comfortable, making an effort to call the patient by his first name and have some social chat. In the case of residents or casualty doctors, the clarification of professional role is also advised.<sup>2</sup> The results of the study demonstrate that the residents use very little time in receiving their patients and very rarely shake hands, or take advantage of their comments to establish social chat. The importance of making note of these initial patient comments, not only for social purposes but for practical ones in obtaining useful clinical information, has been reported.<sup>9</sup> In this study, the variety of topics of potential clinical interest which the patient provides in these initial moments can be seen, the majority of which remain unexplored. As happened in the study carried out on students by Maguire et al,<sup>10</sup> another aspect ignored by our residents is the clarification of their role and their introduction. Unlike other authors<sup>11</sup> we have not found any rules

which govern the sequences of the opening of a consultation, to a great extent due to the quantitative nature of our study.

*The First Moments of Obtaining Clinical Information*

What is most noticeable in our study, is that in more than half the consultations the residents redirected the focus of the interview before the patient could finish his initial comments, thus refocusing the type of information to which priority is given. When these interruptions are made, the patients more frequently brought up new problems at the time

of leaving. It has to be thought that the probable cause of this interruptive behaviour could be due to pressure of time. However, it is worth highlighting that it has been shown that to allow patients to complete their monologue takes up less time<sup>12,13</sup> and once this redirection happens, the patient generally does not then complete its description. The consequences of this include, the loss of opportunity to obtain potentially important information, which the patient may bring up as new concerns later on<sup>6</sup> and, as our results now show, early interruptions do not save time in the total consultation since they lead to more dysfunctional and longer closures, as the patients bring up more new problems in these moments. Also, the fact that the mean time in which our residents made an interruption was extraordinarily similar to that shown by other doctors whose consultations were almost 8 minutes longer than ours,<sup>6</sup> makes us think that this conduct may not reflect a problem of time, but more a habit that reveals the preoccupation of the professional to control and dominate the interview.

*The Closing Moments*

We have a large number of studies on the closing of consultations available, which define it as a phase different from it with an organised framework and some specific tasks.<sup>3,4,14</sup> However, these studies were carried out in a health care environment very different from ours, generally North American, and whose main characteristic was the duration of the consultations. Of the 3 research studies we have found on this subject,<sup>3,4,14</sup> the duration of the consultation was around 17 min and the closing moments had a mean of 1.7 min, which makes it very difficult to compare what the doctors did in these consultations with those that might develop in consultations of 7 min and closing moments of 10 some of the most common communications conflicts s. Even so, the percentage of time dedicated by our residents to the closing moments is 7 points lower than that used by our American colleagues.

Discussion  
Key points



### What Is Known About the Subject

- There is no information in our country on the conduct of doctors in the initial and final moments of a consultation.
- The studies on the closing phase of the consultation take place in health care environments with consultation times much longer than that available to doctors in our country.
- The difficulties of patients to complete their initial explanation of the problem at the beginning of the consultation have been associated with the subsequent appearance of concerns, less problems brought up, and the loss of opportunities to obtain important information on the patient throughout the visit.

### What This Study Contributes

- The residents have very short reception and closing times and the majority do not use the communication skills which are normally recommended in these moments.
- More than half the residents redirect the focus of the interview before the patient has finished the initial explanation of the problem.
- The problem of additional concerns of the patient in the closing moments (the “by the ways”) are more frequent when the doctors redirect the focus of the interview by interrupting the patient too early. These interruptions do not change the total duration of the consultation but make the closing phases longer.

Perhaps this may explain why of the behaviour recommended by these authors and some experts<sup>1,7</sup> and consensus,<sup>8</sup> among which we highlight: summarise the session, check objectives, plan next steps and appointments, establish contingency plans, clarify the plan or give encouragement and support to the patients, our residents carry out hardly any of them. However, as in the rest of the studies there are also professionals here who start the closing moments, and the frequency of “by the ways” or additional

concerns that the patients bring up in this phase of the consultation is very similar in our study and in those of White et al<sup>3,4</sup> (21%-23%).

To conclude we can say that our residents carried out very short opening and closing moments, and communicatively speaking very poor, since they used very few relational skills, which surely limits their capacity to establish and maintain the clinical relationship, obtain information and clarify what they are giving to the patients. In the same way, they interrupt very early on in the initial discourse of the patient, which seems to be associated with bringing up a greater number of additional concerns in the closing moments, a time in which it is more difficult due to not being able to be treated adequately by the professional.

### References

1. Silverman J, Kurtz S, Draper J. Skills for communicating with patients. Abingdon: Radcliffe Medical Press; 1998.
2. Ruiz Moral R. Relación clínica. Guía para aprender, enseñar e investigar. 1.ª ed. Barcelona: semFYC-Ediciones; 2004.
3. White J, Levinson W, Roter D. “Oh, by the way...”. The closing moments of the medical visit. *J Gen Intern Med.* 1994;9:24-8.
4. White J, Rosson C, Christensen J, Hart R, Levinson W. Wrapping things up: a qualitative analysis of the closing moments of the medical visit. *Patient Educ Couns.* 1997;30:155-65.
5. Beckman H, Frankel R. The effect of physician behavior on the collection of data. *Ann Intern Med.* 1984;101:692-6.
6. Marvel M, Epstein R, Flowers K, Beckman H. Soliciting the patient's agenda. Have we improved? *JAMA.* 1999;281:283-7.
7. Lipkin M, Frankel R, Beckman H, Charon R, Fein O. Performing the interview. In: Lipkin M, Putnam S, Lazare A, editors. *The medical interview. Clinical care, education and research.* New York: Springer; 1995. p. 65-82.
8. Participants in the Bayer-Fetzer Conference on Physician-Patient in Medical Education. Essential Elements of Communication in Medical Encounters: The Kalamazoo Consensus Statement. *Acad Med.* 2001;76:390-3.
9. Neighbour R. La consulta interior. Cómo desarrollar un estilo de consulta eficaz e intuitivo. *Espugues de Llobregat: J&C S.L.*; 1998.
10. Maguire P, Rutter D. History-taking for medical students. 1. Deficiencies in performance. *Lancet.* 1976;2:556-8.
11. Gafaranga J, Britten N. “Fire away”: the opening sequence in general practice consultations. *Fam Pract.* 2003;20:242-7.
12. Langewitz W, Denz M, Keller A, Kiss A, Rüttimann S, Wössner B. Spontaneous talking time of consultation in outpatient clinic: cohort study. *BMJ.* 2002;325:682-3.
13. Rabinowitz I, Luzzatti R, Tamir A, Reis S. Length of patient's monologue, rate of completion, and relation to other components of clinical encounter: observational intervention study in primary care. *BMJ.* 2004;328:501-2.
14. Robinson J. Closing medical encounters: two physician practices and their implications for the expressions of patients' unstated concerns. *Soc Sci Med.* 2001;53:639-56.

## COMMENTARY

# Do We Infect Our Residents With Haste?

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Third year residents of community and family medicine, after their hospital training, arrive at health centres with some acceptable clinical competencies.<sup>1</sup> It is assumed that during their rotation in the health centres their interest in the psycho-social aspects of being human is accentuated, along with the relationship between disease and biographical context. The care relationship is a relationship of confidence, but also, in part, a friendly relationship. It would be very desirable if with the passing of time our residents should discover that professional excellence in primary care has more to do with wise management of this confidence and friendship, than with a superlative ability in rare diagnoses. However, it does seem that the article by Ruiz-Moral et al<sup>2</sup> (in this issue) brings us good news in this respect. The resident appears to direct his energy in a very focused way to obtain information essential to resolve the patient's problem.

Adjustment to a reality committed to "5 minutes per visit"? Probably, but surely also due to the intrinsic difficulty to assimilate an interview method which involves carrying out several tasks.

We highlight 2 basic tasks in the initial phase of the interview: to clarify the patient concern, suitably preventing what we have called "additions" (equivalent to the Anglo-Saxon term "by the way"), and leave a space for the free expression of this concern (the famous "fire away" of the semi-structured interview.<sup>3</sup> As regards the first task, the authors do not report the level of compliance, but they do emphasise that many interviews end with added concerns in the closing phase. On the second task, they tell us that almost half of the interviews are redirected by the doctor. For years, groups of colleagues have been micro-analysing hundreds of interviews using the PBI method (Problem Based Interviewing). Just 30 seconds of interview are sufficient (just as in the work of Ruiz-Moral et al) to draw conclusions on the concern of the patient, the level of concentration of the professional, his work discipline (or lack of it), or the established cordiality of the relationship. In these first 30 seconds an enormous amount of interaction oc-

## Key Points

- It would be very desirable if our residents should discover that professional excellence in primary care has more to do with wise management of confidence, than with a superlative ability in rare diagnoses.
- In these first 30 seconds an enormous amount of interaction occurs, both verbally and above all, non-verbally, which leads to starting on the right footing or in a slightly opportune manner.
- This learning of "hurry" forms part of the so called hidden curriculum, that is to say, those skills, attitudes and values which are not made clear in the tutorials, but are those which are acquired unconsciously and acritically, merely from the simple fact of observing the way the older doctors act in the consulting room.
- In view of all this we have to ask ourselves if the training conditions that we offer our residents have the minimum non-negotiable material and human resources so that our health care practice can be described as worthy.

...curs, both verbally and above all, non-verbally, which leads to starting on the right footing (attentive, cordial professional, with an interview plan), or in a slightly opportune manner (field-dependent professional, distant, in his "castle of expert superiority"). The Ruiz-Moral et al article provokes reflection on the extent which apparently modest objectives, along the lines of improving normal technical skills, are not consolidated as normal working habits. Do our residents lack much? On the one hand, automated cordiality (how to smile or look at the eyes). Also "let the

patient talk," that is, patience, to create an atmosphere of peace and tranquillity. However, is this peace, this tranquillity possible, in crowded clinics, with appointments behind schedule? The clinical interview is always adapted to the environment, and if this affirmation is true, maybe the residents have a sort of wisdom which can be hidden from us due to our determination to analyse them as if they were working in ideal conditions. Could it be possible, therefore, that the third year residents in Cordoba (which can be generalised to the State R3 group), were already infected by the haste which exists in health centres? This learning of "haste" forms part of the so called hidden curriculum, that is to say, those skills, attitudes and values which are not made clear in the tutorials, but are those which are acquired unconsciously and acritically, merely from the simple fact of observing the way the older doctors act in the consulting room. And don't leave out being worried, because if the patients see us stressed and pressured, we lose a good part of our therapeutic power. Time is needed to let the patient speak, to grasp his deeper, hidden feelings even for himself. Put yourself in his place with the aim of understanding the situation. We can feign tranquillity and we can make the patient believe that we have the time, but if year after year the doctor works in conflicting conditions, he will end up adapting to the environment, and an interview will re-emerge which combines focal habits ("tell me what's important and don't go off at a tangent"), along with a cold and distant style ("patient-patients come here, not for trifling matters").<sup>4</sup> This type of interview, which we will call "adapted to overcrowding," using interruptions to the conversation of the patient causes a perception bias: we end up "seeing" the patient as we want to see him, in keeping with the time we have available. This leads to more added concerns being made at the end of the consultation or successive visits (the problem is not solved).

It is essential that from primary care that we pause for deep reflection in the double sense of the word. On the one hand, we have to reflect upon and adapt our techniques, aims and standards of quality to the day to day reality. We cannot tell something to the resident who may do things that their tutors do not do, nor are done routinely in consultations, as that will condemn them (when they have their own position), to feel like bad doctors. The criteria for good practices have to be adapted where possible, without the final quality being affected. Secondly, it has to be determined what are the non-negotiable material and human resources so that our health care practice can be described as worthy. The population of Spain has increased, maintaining the same health means. Something does not square. Consequently we must be very careful when we criticise (ourselves) the practices of family doctors, and always to say, firstly (and also as regards the residents): we have great professionals prepared to give the best of themselves.

## References

1. Sanchez Marín FJ, Molina Durán F, Martínez Ros T, Sánchez Sánchez F, Cifuentes Verdú A, Martínez Hernández MA, et al. Programa MIR de medicina familiar: una interacción transprofesional en una realidad compleja. *Aten Prim.* 2004;33:312-9.
2. Ruiz-Moral R, Parra-Rejano JM, Alcalá-Partera JA, Castro-Martín E, Pérola de Torres L. ¿Bienvenido y hasta luego u hola y adiós?: conductas comunicativas de los médicos residentes en los momentos iniciales y finales de las consultas. *Aten Primaria.* 2005;36:537-41.
3. Borrell F. Entrevista clínica. Manual de estrategias prácticas. Barcelona: semFYC; 2004.
4. Ruiz-Moral R, Rodríguez-Salvador J, Pérola-Torres L, Prados-Castillejo JA. Evolución del perfil comunicacional de los médicos residentes de medicina de familia. *Aten Prim.* 2002;29:132-44.