Patient Centred Care

Patient centred care: How close to this are we?

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Abstract

This article focusses on those aspects of patient centred care which are relevant to dentistry. Understanding motivating factors and patient expectations of treatment are fundamental in the provision of high quality care. Ensuring that patients have realistic expectations can be enhanced by providing good information and communicating well at all stages of treatment – factors which also enhance the overall patient experience.

A wide range of factors contribute to patient satisfaction with treatment, alongside meeting expectations and ensuring that the treatment experience is positive, but some of these factors are still not fully understood and more work is required to understand, for example, how patients’ psychological traits may influence satisfaction.

It is essential that clinicians consider these factors when providing care for their patients and this paper discusses current evidence relating to patient expectations, patient experience, effectiveness of treatment (primarily quality of life) and also those factors which may impact on patient satisfaction with treatment.

Clinical relevance statement

Patient centred care involves being proactive about getting patients involved in decision making and build good professional relationships with to enhance communication and trust.

Brief objectives statement

To discuss the relevant aspects of patient centred care to dentistry including patient expectations, patient experience, quality of life and also those factors which may impact on patient satisfaction with treatment.
Introduction

As part of our clinical roles, we are all required to consider the quality of the care we provide for our patients, both in terms of the process of providing that care and the outcomes of the treatment.

In dentistry, outcomes of treatment have traditionally been assessed in terms of clinician focused measures; for example, survival rates of restorations.\textsuperscript{1-3} However, recent years have seen a move to incorporate patient centred measures alongside these clinician derived measures. The Darzi report in 2008, “High Quality Care for All”,\textsuperscript{4} played a major part in implementing plans for an NHS which works in partnership with patients to deliver the best quality care possible and this report emphasised that most people want a greater degree of control and influence over their own health and healthcare. Lord Darzi’s summary letter stated that “High quality care should be as safe and effective as possible, with patients treated with compassion, dignity and respect. As well as clinical quality and safety, quality means care that is personal to each individual.” The document “Liberating the NHS: No decision about me without me”\textsuperscript{5} further reinforced the need to increase opportunities for patients, and their representatives, to have more involvement in decisions about their care all along the patient pathway. It is on this basis that modern healthcare is delivered.

It is therefore important that research in dentistry considers both patient and clinician perspectives and this remains a challenge. Fleming \textit{et al.}\textsuperscript{6} performed a systematic review of the types of outcomes reported over a three year period in eight prominent dental journals. They found that 44% of publications were primarily clinician focussed, 34% were patient centred and 22% had elements of both patient and clinician focus. The researchers concluded that there was undue emphasis on technical, clinician centred outcomes in all dental specialties and highlighted the importance of developing and adopting core outcome sets for use in dental research.
A systematic review by Tsichlaki and O'Brien\textsuperscript{7} identified the types of outcomes in recent orthodontic trials; their findings showed that morphologic features of malocclusion were measured in 63% of the studies included in the review but patient centred outcomes, such as adverse effects of orthodontic treatment and quality of life effects, were measured in only 32% and 9% of studies, respectively. The lack of patient centred measures is also evident in the implant literature, with Topcu \textit{et al.}\textsuperscript{8} stating that in the region of only two percent of implant outcome studies focus on patient based outcomes.\textsuperscript{8} Whilst dentistry has made major efforts in incorporating patient centred measures, there is clearly still further work to do.

Quality of care from a patient centred perspective may be defined in many ways but 3 criteria have frequently been cited: (i) Patient safety, (ii) Patient experience, and (iii) Effectiveness of care. This paper will focus predominantly on the patient experience and effectiveness of care under the following subheadings:

1. Understanding motivations and meeting patient expectations
2. The patient experience
3. Effectiveness of treatment from the patient perspective, with an emphasis on quality of life
4. Patient satisfaction

\textbf{1. Understanding motivations and meeting patient expectations}

Understanding motivating factors and expectations is fundamental to providing high quality care. Ensuring that patients’ expectations are met is a key determinant of satisfaction with the outcomes\textsuperscript{9} and also enhances a patient’s engagement with the clinical process.\textsuperscript{10} However, motivation and expectations are complex and developed in a number of different ways.
When starting treatment for any patient, it is useful to think in terms of the problem (or the impact), the motivation and the expectations and these may be, for example:

- The problem/impact: “I don’t like the appearance of my missing front tooth”
- The motivation: “I would like a bridge or implant to make it look better”
- The expectations: “If I get the improved appearance I want, I will feel more confident when meeting people and I will smile more in photographs.”

A useful question to ask patients in order to understand their expectations is how they think their life will be affected by the treatment they are hoping to embark on and what they think will be different afterwards.

It is important to stress that the relationship between these three elements is not a straightforward linear relationship and many other factors play a part and mediate the motivation and expectations, for example the type of health care system, the influence of family and friends, cultural aspects etc. However, all three aspects need to be fully explored to ensure that a treatment plan is likely to meet the individual’s expectations and, if there is any doubt as to whether the expectations will be met, these must be fully explored with the patient before commencing treatment.

If expectations are not met, this may result in the patient being dissatisfied. However Zeithami et al. discussed the concept of the “zone of tolerance” where small failures of expectation may be acceptable, depending on the importance of that particular aspect of a service. If the expectations relate to something which the patient perceives as being particularly important, then the zone of tolerance is likely to be smaller than an aspect of care which is not seen as having such great importance. As clinicians, it is therefore crucial that we understand which are the key areas of importance for an individual patient.
A 2012 publication in the orthognathic literature explored patients’ expectations and developed a typology classification which allowed a clearer view of some of the complex social phenomena which arose in the qualitative interviews undertaken. The authors highlighted that by being able to classify expectations in this way allows a clearer understanding of the patient and their expectations and, in doing so, will hopefully enhance patient satisfaction.

Motivations and expectations have also been explored in various areas of the prosthodontic literature. Marachlioglou et al. explored patients’ expectations of the aesthetics and function of complete dentures and compared them with those of the dentist and the technician. The patients had significantly higher expectations of their dentures than the dental professionals, although interestingly also provided higher post-treatment scores. The important aspect of this study though was the difference in the initial expectations between the patients and the dental professionals and this is an important factor in our clinical practice which must be resolved by ensuring good communication prior to undertaking any treatment and by providing patients with detailed explanations about the potential benefits and limitations of treatment.

McCunniff and colleagues undertook secondary data analysis of 4 studies which had looked at patients’ expectations and post-treatment satisfaction in complete denture construction. Their findings suggested that although patients’ expectations of denture aesthetics were high, their satisfaction usually exceeded their expectations. Men showed higher expectations than women but there were no other gender or age specific effects. Whilst such findings are reassuring, the paper highlighted the importance of further research to provide a greater understanding of those factors which affect expectations and satisfaction.

Whilst we have some understanding of expectations and their importance in dentistry, there is still work to be done in this area. We need a better understanding of how patients develop their initial expectations and how expectations change during a course of treatment; we also
need a better awareness of how expectations may influence treatment outcomes.\textsuperscript{17, 18} The provision of good information is fundamental in ensuring that patients have realistic expectations and this will be discussed in further detail in the next section of this paper. The ever-important issue of good patient-clinician communication is also key to this aspect of care.

There is little doubt that patients in all areas of medicine and dentistry have increasing expectations of the services and outcomes which can be delivered and managing patient expectations is an important issue for both patients and clinicians. A recent study looking at career satisfaction and work life balance in orthodontists found that those clinicians who said they found it increasingly difficult to manage patient expectations, had significantly poorer career satisfaction and significantly poorer work-life balance than those who felt they managed expectations well.\textsuperscript{19} It is therefore critical that we continue to educate undergraduates, postgraduates and all members of clinical teams in the optimal management of patient expectations; ensuring this will hopefully have a positive impact for both patients and dental professionals.

2. The patient experience

There has been an increased understanding of the importance of the patient experience in recent years and the NHS has acknowledged this by embedding patient experience indicators into NHS frameworks.\textsuperscript{20} The patient experience covers a diverse range of aspects of care including the staff and the environment, information provision and involving patients in shared decision making about their care.

Elements of the patient experience which have frequently been found to be important include being treated with respect, being included in discussions about their own care and having kind,
supportive clinicians and nurses. Recent research has confirmed that patient satisfaction is enhanced when such elements existed in their care.\textsuperscript{21-25}

The provision of high quality information also plays an important part in the patient experience and links to the previous section of this paper. Ensuring that accurate information is provided goes some way to ensuring realistic expectations and this, in turn, may enhance satisfaction. There is much information available on the internet regarding dental treatment but patients often struggle to know which information is accurate and which is not. A 2011 study by Patel and Cobourne\textsuperscript{26} looking at internet based information about orthodontic extractions found that this information had generally poor reliability (41%). It is therefore perhaps not surprising that patients attend for consultations with inaccurate information and potentially unrealistic expectations.

Nason et al.\textsuperscript{27} highlighted concerns about the lack of evidence base and quality control in their study investigating YouTube™ videos about endodontic treatment. A search was undertaken based on three key words: endodontics, root canal and root canal treatment and twenty videos were assessed for quality for each search term. Videos posted by dental professionals and commercial sources were found to be significantly more complete than those posted by laypeople, but only 46% of the videos were actually posted by a dentist/specialist source. The study concluded that the completeness of the videos varied significantly and encouraged professionals to be aware of the information available on the internet and to direct their patients to the higher quality information, thus reducing the amount of inaccurate information they obtain.\textsuperscript{27}

A similar study in the implant literature assessed the content of YouTube™ patient testimonials for dental implants.\textsuperscript{28} Encouragingly, informative points were included more frequently than misleading information but the information provided was judged to be limited, with fewer than two points of information per video. Patients were often informed that implants could improve aesthetics and function, but information regarding pain and pain control was potentially
misleading. Many of the videos were uploaded by clinicians, although they were patient opinions, and the paper highlighted the importance of clinicians being responsible for the content uploaded under their name/practice name. The paper also noted the importance of clinicians being aware of the limitations in the information present when patients search online and this is an important aspect of future work.\textsuperscript{28}

However, there is evidence to show that when accurate information is presented appropriately, it can be helpful to patients. Ghanem and colleagues\textsuperscript{29} undertook a study to investigate the effect of a TED-like presentation (Technology, Entertainment and Design website that provides short online talks by expert speakers) on patients' willingness to accept implant treatment. Patients who were interested in potentially undergoing implant treatment completed a questionnaire before and after the short presentation and the researchers found that respondents were significantly more likely to accept implant treatment after the information had been provided.\textsuperscript{29}

These findings highlight the importance of the profession providing and collating high quality information in different formats and ensuring that it is readily accessible. It is also important that patients are asked how they would like information to be provided\textsuperscript{30} and the advent of individualised provision of care means that patients' views should be considered when providing this information. Recent years have seen dental research into the provision of high quality information in different formats, including audio-visual,\textsuperscript{31} social media,\textsuperscript{32} and Apps.\textsuperscript{33} Providing information in these ways has been found to enhance knowledge about a condition or treatment\textsuperscript{31-33} and has also been shown to enhance satisfaction with the treatment process.\textsuperscript{33}

However, none of these adjunctive methods replace good quality information from dentists, instead they should supplement the information provided by the clinician. A recent systematic review investigating patient information about replacement of missing teeth showed that
clinicians were the most important source of information, followed by the media, family and friends. Therefore clinicians play a key vital role in improving awareness and knowledge about treatment alternatives.\textsuperscript{34}

National and international societies can also take a lead in producing high quality evidence-based patient information products; for example, the patient information provided by the American Academy of Periodontology (https://www.perio.org/consumer/patient-resources) and the information provided by the British Orthodontic Society about orthognathic treatment (https://www.bos.org.uk/Public-Patients/Your-Jaw-Surgery1). Such organisations should also consider ensuring that their sites appear on the first results page when patients undertake internet searches and this requires a knowledge of the terms which patients/members of the general public use.\textsuperscript{30} This increases the likelihood that patients will access high quality, evidence based information regarding their treatment.

A further key aspect of the patient experience is shared decision making.\textsuperscript{35} Shared decision making is essentially a two-way process where the patient and clinician share the responsibility for decision making and may be defined as when "...clinicians and patients work together to select treatment, based on clinical evidence and the patient’s own preferences.......involves the provision of evidence-based information about options, outcomes and uncertainties....".\textsuperscript{36, 37} Shared decision making has replaced the traditional paternalistic way of providing treatment and is an area which is a major focus in the NHS. The importance of shared decision making in dentistry is highlighted in recent research in looking at satisfaction with adult orthodontics, where patients discussed that shared care had enhanced their satisfaction with treatment: "They involved me in making decisions... they asked for my opinion, and I felt that I’d come to the right place".\textsuperscript{38}

A study conducted in both a hospital and general dental practice setting found that patients wished to have a shared decision making role in their own care but the same patients felt that
their current role was passive and they were not actually involved in shared decision making.\textsuperscript{22}

It is important to acknowledge that this research was undertaken some time ago, but nevertheless it is important that we all question how much we involve patients in decision making about their own clinical care.

Shared decision making can be enhanced by decision making aids which have been utilised in medicine for some time now. These aids can take a number of different formats (leaflets, decision boards etc.) and a recent Cochrane review highlighted the benefits of using decision aids including: improved patient knowledge, better informed patients, more accurate expectations and allowing patients to be more effectively involved in decision making.\textsuperscript{19, 39}

Interest in decision making aids has increased in dentistry in recent years and decision aids have now been tested in endodontics\textsuperscript{40} and orthodontics.\textsuperscript{41, 42}

\textbf{Patient scenario 1}

A 21-year-old patient, Figure 1, attended a prosthodontic clinic for advice regarding their severe hypodontia. The patient was given several options regarding treatment but was extremely anxious about the treatment process itself and also about the potential aesthetic and functional outcomes associated with the various options available. The potential treatment options were discussed in general terms initially and then in more detail over a number of visits. The patient was also directed to online resources where they could find out further evidence based information. The patient’s anxiety levels reduced but they still felt unable to make a treatment decision. They were encouraged that this was not an urgent decision to make and that they should take as much time as they needed to make the right decision for themselves. At that stage the clinician also offered the chance to speak to another patient who had faced similar treatment decisions but who had now completed
treatment. The clinician was comfortable that the previous patient would give a balanced, informed view and they had already offered to speak to prospective patients if this was ever helpful. The two patients spoke by telephone and the potential patient asked a number of questions which they felt the clinicians would not have been able to answer. After some further time considering the options, the patient felt comfortable making a decision how to proceed and was ultimately very happy with the outcome, Figure 2.

This scenario highlights the importance of ensuring patients have all of the information they need to make treatment decisions and that they are not rushed into making decisions. It also illustrates how previous patients can be helpful in aiding that process.

3. Effectiveness of treatment from the patient perspective: Quality of life

Effectiveness of treatment covers numerous aspects but one which has received much interest in recent years is quality of life. There are many definitions which have been used including that by the World Health Organization\textsuperscript{43} which states that quality of life is "A state of complete physical, mental, and social well-being not merely the absence of disease". Dental treatment has a number of aims from the patient perspective, including pain relief, enhanced function, improved aesthetics and enhanced psychosocial aspects of life. All of these come under the term "quality of life" and effectiveness of dental treatment therefore often focuses on one or more elements of quality of life.

As clinicians, we see individual patients on a daily basis who report enhanced quality of life as a result of dental interventions and the literature publishes a wide range of dental studies
looking at this area of research and showing quality of life benefits. However, the challenge to the profession is in providing high quality evidence of QoL benefits through studies undertaken using optimum quality methodology, systematic reviews, and meta-analyses.

In one of the early systematic reviews investigating QoL effects in dentistry, Thomason et al.\textsuperscript{44} concluded that there were insufficient studies in reconstructive dentistry to reach any robust conclusions regarding QoL effects and called for more studies in this area. Only a decade later progress has definitely been made and this increasing evidence base is reassuring, but there are still limitations in terms of heterogeneity related to study design, inclusion and exclusion criteria, questionnaires/instruments utilised to measure QoL, duration of follow-up etc. Overcoming some of these issues is the challenge for future quality of life research in dentistry.

It is important to acknowledge that there are now systematic reviews which have allowed more definite conclusions to be reached and these findings are encouraging. A number of these reviews and their findings are discussed below:

- \textit{Orthodontics}: Dimberg et al.\textsuperscript{45} highlighted the negative effects on quality of life in children/adolescents with malocclusion in their systematic review and, more recently, Javidi et al.\textsuperscript{46} concluded that there is evidence that correction of such malocclusions by orthodontic treatment is associated with improved quality of life after treatment, especially in the emotional and social well-being domains. They did however highlight the limited quality of the evidence.

- \textit{Periodontology}: Baiju and colleagues\textsuperscript{47} concluded that both surgical and non-surgical periodontal treatment significantly influenced QoL, although there was no significant difference between the two treatment modalities. They also highlighted the need to develop appropriate condition specific measures to assess changes in QoL and the need to undertake more high quality longitudinal studies.
• **Complete dentures:** Thomasson *et al.*\(^4^8\) found substantial evidence that QoL improvements with implant retained overdentures (IODs) were significantly greater than for conventional dentures, which is reflected in both the McGill and York Consensus Statements.\(^4^9, ^5^0\) In contrast, Nogueira *et al.*\(^5^1\) undertook a systematic review to investigate whether single-implant mandibular overdentures (SIMO) improved patient-reported outcomes more than conventional dentures in edentulous patients. Of the eleven studies included, all studies reported that SIMO resulted in marked improvements in quality of life, but unfortunately there was insufficient evidence to compare the two treatment modalities. The authors called for better reporting and more standardisation of instruments to allow data to be compared more readily. Similar positive findings associated with implant supported mandibular overdentures compared with conventional dentures were noted in the systematic reviews by Sivaramakrishnan and Sridharan\(^5^2\) and De Bruyn *et al.*\(^5^3\) Sadowsky and Zitzmann\(^5^4\), in their review of maxillary implant retained overdentures, also found that provision of implant supported dentures provided enhanced satisfaction and quality of life. However, it must be noted that the picture is not be quite as clear for maxillary dentures as it is for the mandible and studies, including Thalji *et al.*\(^5^5\), also found improved QoL with conventional mucosal borne complete dentures.

• **Removable partial dentures (RPDs):** De Kok *et al.*\(^5^6\) found modest increases in QoL in RPD wearers but their systematic review failed to find any evidence of better quality of life than in untreated partially dentate patients or where restoration using fixed prostheses or implants was undertaken. Satisfaction appeared to relate to the replacement of anterior teeth or numerous posterior units on RPDs.

• **Dental implants:** Reissmann *et al.*\(^5^7\) investigated the outcomes of QoL in partially dentate and edentulous patients. They found that lower QoL scores prior to treatment were strongly associated with greater improvements in post-treatment QoL. There was insufficient evidence that fixed implant prostheses improved QoL more than tooth-
borne fixed prostheses. Moderate quality evidence suggested that fixed implant prostheses perform better than conventional RPDs. As noted above, evidence from some of the included studies for partially dentate subjects suggested that the magnitude of QoL improvement after treatment was linked to the number and location of implants to replace missing teeth. Greater improvements were expected for anterior than posterior tooth loss and when more teeth were replaced.

- **Maintaining a functional natural dentition:** Naka et al.\(^5^8\) investigated subjective chewing ability relative to functional tooth units and found that patients reported a satisfactory chewing ability with a shortened dental arch (SDA), and stressed the importance of dentists focussing on preventive and restorative regimes to maintain functional dentitions for a patient’s lifetime. Similar findings were noted by Tan et al.\(^5^9\) in their systematic review which showed that higher numbers of retained natural teeth were associated with better OHRQoL and that anterior tooth loss and absence of posterior occlusion were associated with impaired QoL. Khan et al.\(^6^0\) also reported positive findings associated with the SDA concept in their review. Fueki and Baba’s systematic review\(^6^1\) investigated prosthodontic and SDA approaches for the free-end saddle but showed no significant difference in QoL outcomes between the SDA and removable denture groups; however they did highlight the small number of papers/patients included in the review.

Whilst there are an increasing number of systematic reviews focussing on QoL in dentistry, evidence is still lacking in some areas. However, it must be stressed that lack of evidence does not mean there is no effect, rather that the evidence currently available does not allow definite conclusions to be drawn. This is one of the aspects of research in dentistry which must be a focus for the future.
4. Patient satisfaction

It is sometimes easy to assume that if good quality of care is delivered and a good outcome is achieved, then the patient will be satisfied, but as clinicians we all know this is not necessarily the case and other factors contribute to satisfaction with treatment. The factors associated with patient satisfaction are complex and still not fully understood. This is, however, an area of research which is showing increased interest in the medical and dental literature.

There is now good evidence that the relationship between the dentist and the patient is an important factor in achieving satisfactory patient outcomes in a number of areas of dentistry including prosthodontics\textsuperscript{24, 25}, endodontics\textsuperscript{62}, periodontics\textsuperscript{63}, implant dentistry\textsuperscript{64} and orthodontics.\textsuperscript{65} This is an important area for all clinicians, especially when considering areas such as staff development and training. It is essential that all members of the team are aware of the importance of good communication skills, effective patient management and providing treatment in a holistic way.

Patient satisfaction is associated with a number of different factors as illustrated in a recent systematic review of patient satisfaction in orthodontics.\textsuperscript{65} This review separated those factors which were associated with satisfaction and those which appeared to be associated with dissatisfaction. The authors found that satisfaction was associated with the quality of the aesthetic outcome, the quality of care delivered, the patient-clinician relationship and certain personality traits. In contrast, dissatisfaction was associated with treatment duration, pain, retainers and other specific personality traits (e.g. neuroticism). This review highlighted the importance of “internal” patient factors, including personality traits, when considering the factors which may influence outcomes of treatment.

A publication looking at satisfaction with complete dentures highlighted similar factors. A study of the literature since 2001 showed that factors affecting satisfaction included personality and
psychological factors, the patient’s perception of the dentist and the care provided, the patient-dentist communication and the actual treatment undertaken (implant retained prostheses were associated with higher levels of satisfaction than conventional dentures).\textsuperscript{66} The authors highlighted the importance of more research in this area in order to enhance our own understanding of how to provide the very highest quality care.

Although clinical factors, such as age, bone quality, speech and mastication, have been shown to affect satisfaction with prosthodontic and implant outcomes,\textsuperscript{67-69} overall the evidence suggests that patients are satisfied with fixed and removable prostheses. However, the effect of neurotic personality traits may reduce those levels of satisfaction\textsuperscript{64, 67-70} and further research is required to investigate how best to manage such patients effectively.

Interestingly dentists’ satisfaction with the technical quality of their implant and denture work does not necessarily correlate well with the patients’ satisfaction. Takeshita et al.\textsuperscript{71} showed that only half of the implant cases assessed were rated as satisfactory by the dentist, but 96% of patients were satisfied. Additionally, Marachliglou et al.\textsuperscript{14} found that patients reported significantly more benefits related to their denture treatment than dentists. This shows that patients may well be satisfied with treatment, despite dentists’ perceptions of the outcome. This is important to consider when treatment planning, as further intervention may sometimes not be in a patients’ best interest if there is unlikely to be a significant improvements for them.

The importance of considering personality traits and psychological factors is highlighted in this area of research and it is also important to consider the condition body dysmorphic disorder (BDD) in this section. BDD is a psychiatric condition in which there is a preoccupation with an imagined or minor defect in appearance, which causes significant distress in social, occupational and other important areas of functioning and is not better accounted for by another mental disorder (e.g. anorexia nervosa).\textsuperscript{72} In the dental context this is typically a patient who attends with excessive concern about a dental problem which is having a much
greater impact on their life than would be anticipated considering the relative severity of the problem. A recent systematic review of the dental literature showed that the prevalence of BDD is 5% in orthodontics and the cosmetic dentistry population and 11% in the orthognathic population, compared with around 2% in the general population. It is therefore possible that we all see patients with BDD in our clinical practice and should be vigilant to this possibility. BDD is of particular importance in this context for two reasons: firstly, and most importantly, from a patient safety perspective as patients with BDD are at risk of suicidal thoughts and suicide attempts, so any patient who is thought to be potentially suffering from BDD must be sent for appropriate assessment and care. Secondly, patients with BDD show an increased chance of being dissatisfied with the outcome of care, even if the outcome is good from the clinician’s perspective. Physical treatment is rarely the best treatment option in this group of patients and, unless supported by an appropriate mental health professional, will often be associated with dissatisfaction if undertaken.

Recently Bain and Jerome identified the concept of patient burnout in dentistry, defined as an emotionally exhausted dental patient. Patient burnout is associated with complex treatment, high and unrealistic expectations, and a focus on treatment rather than care, with less emphasis on diagnosis and treatment planning than on performing procedures. The authors also proposed a two way relationship between patient and dentist burnout whereby dentists exposed to a number of burnout patients may cumulate in burnout for the dentist. Patient burnout can be minimised by good non-verbal, verbal and written communication, not progressing with complex treatment too fast, under promising and over delivering and keeping treatments simple.

Although patients seek dental treatment in an attempt to achieve enhanced aesthetics, function, and psychosocial outcomes, the factors affecting ultimate satisfaction with the outcomes of treatment are complex and not yet completely understood.
Patient scenario 2

A 22 year old patient attended for treatment to enhance the appearance of the maxillary incisors which were affected by hypoplasia, Figure 3, and had previously been restored with composite veneers that had stained. The patient was under the impression that they would have porcelain veneers but a decision was made that it would be more appropriate to replace the composite veneers as they would be less destructive. The patient was upset that they would not be able to have porcelain veneers as that was what they were expecting. The clinicians spent some time explaining why this decision had been made and the patient appeared satisfied to proceed with treatment. When the composites were replaced, the patient was upset and clearly not satisfied with the result, Figure 4. It transpired that the patient wanted a “glossy finish” and was not aware that the composite veneers would not result in the same level of gloss as porcelain veneers would and they had spent a lot of time on the internet looking at images of the outcome they thought they would get.

Although a considerable period of time was spent explaining why composite veneers were planned rather than porcelain veneers, the patient was expecting similar aesthetics and the clinician had not been aware of this. The patient was willing to consent for porcelain veneers accepting the risks of biological damage, and the composite veneers were replaced with porcelain with which that patient was happy, Figure 5.

In hindsight it would have been sensible to show images of both types of veneers to illustrate the different aesthetics and also to show the extent of the preparation which would be required if porcelain veneers were undertaken. The importance of ensuring that the patient’s expectations are fully understood can not be over emphasised and all appropriate resources should be utilised in an attempt to show patients what the likely outcomes of a course of treatment may be.
Conclusions

There have been significant efforts in recent years to ensure we provide patient centred care in dentistry and the evidence base in this area continues to increase. There is undoubtedly work still to do though and the key areas are highlighted in this paper.

As clinicians we want to provide high quality care for all of our patients and the vast majority of patients appear to be satisfied with the work we provide for them. Based on the current evidence, patient complaints and disappointment may be reduced with the practical tips included in the table below.

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<tr>
<th>Motivation and expectations:</th>
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<td>Take a detailed history and always ask the patient what they expect from treatment: explore the expectations as well as the problem and the motivation. If you have concerns, ask for a specialist opinion.</td>
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<th>The patient experience:</th>
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<td>Discuss this with the whole team in your practice. Ring the practice yourself and see if any changes need to be made, visit another practice and see if there are areas of good practice you could also use etc. Have you got the right balance of risks and benefits for different treatments in your practice information leaflets and on your website. What other websites might be useful to recommend to patients?</td>
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<th>Effectiveness of treatment and quality of life surveys:</th>
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<td>Could you usefully introduce any outcome surveys in your practice? More information from studies carried out in both practice and hospital settings will be invaluable.</td>
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<th>Patient satisfaction:</th>
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<tr>
<td>Good communication is important at all stages of patient care. Are you happy with your own communication? Is the practice’s communication training updated regularly? Could any changes be made? Do you have treated patients who would be happy to discuss their treatment with those who may undertake similar treatment?</td>
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References


Figures

Figure 1: Case 1 pre-operative views
Figure 2: Case 1 Views after maxillary anterior composite build-ups, and fit of dental implant retained crown and bridgework with alveolar bone augmentation and sinus lifts, and a resin retained bridge, posteriorly. The implant screw access chambers were due to be restored definitively with composite resin.
Figure 3: Case 2 pre-operative view of hypolastic maxillary incisors
Figure 4: Case 2 replacement composite veneers
Figure 5: Case 2 definitive porcelain veneers