Developing your teaching style: increasing effectiveness in healthcare teaching

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This paper reports the first stage in the development of a tool, the Six Staffordshire Teaching Styles Questionnaire, designed to raise awareness in teachers about their teaching style. Effective teachers are adaptable and flexible in providing variety in their teaching activities, aiming to match their manipulation of the teaching and learning environment to the needs of the learner, but teachers should also know what type of activities they are most effective at delivering. Just as mismatched learning styles can cause dysfunctional learning situations, one of the causes of stress in teachers can be an incongruency between the type of activities they believe are effective, or feel they are good at carrying out, and external expectations of “good teaching”.

This paper describes the Six Staffordshire Teaching Styles questionnaire. Insight into their preferred teaching styles might help novice teachers’ professional development as they think about flexibility in provision of learning opportunities and also give them a way of thinking about dysfunctional teaching.

BACKGROUND

Recommendations to novice healthcare teachers about effective teaching of the “how to do it” variety tend to be based on the obvious (“prepare well”), personal opinion (“this is how I do it”) and faith (“trust me, I’m a teaching expert”), rather than looking to see whether we can detect any common themes in the behaviours of the teachers of those learners who are achieving, or indeed, mapping those recommendations against any measures of learning or student progress.

Part of the reason for this is that it is very hard to be certain what actually does influence students’ learning. Despite a wealth of literature, both opinion and evidence, on cognitive styles, the psychology of learning and how information is processed and activated in learning situations, there is still a leap of faith required to be sure of the extent to which teachers can positively influence that learning journey. Transfer into clinical practice and impact on patient care are long-term outcomes of teaching in clinical settings and many factors can have an effect along the way.

On the other side of the coin it is well recognised, at least by learners, that “bad” teaching can get in the way of learning. It is all too easy for moments of expertise of the learner, a consideration of whether theoretical or practical educational material is being taught, and the purpose and context of learning. This adaptability is a key skill of a flexible teacher, which is why it is crucial that teachers are adaptable and flexible in providing variety in their teaching activities, aiming to match their manipulation of the teaching and learning environment to the needs of the learner, but teachers should also know what type of activities they are most effective at delivering. Just as mismatched learning styles can cause dysfunctional learning situations, one of the causes of stress in teachers can be an incongruency between the type of activities they believe are effective, or feel they are good at carrying out, and external expectations of “good teaching”.

Indeed, some of the early experiments with implementing a problem based learning approach to medical undergraduate curricula may have unwittingly discovered just that.

There are some basic principles, derived predominantly from expert opinion but also from outcomes based evaluation, that tend to be repeated as elements of effective teaching:

- set clear goals and expected outcomes
- provide adequate supervision and assessment against these goals
- provide meaningful feedback
- show concern for students’ progress

Over the past 25 years, work has been done on these areas to link students’ opinions about the presence or absence of these factors in their teachers with subsequent development of clinical skills.

Such work, however, tends to be concentrated on “what to do” rather than on “how to do it”. Developing competency as expert teachers requires us to analyse and reflect on how we carry out tasks. Effective teachers match teaching with the levels of expertise of the learner, a consideration of whether theoretical or practical educational material is being taught, and the purpose and context of learning. This adaptability is a key skill of a flexible teacher, which is why it is crucial that teachers are adaptable and flexible in providing variety in their teaching activities, aiming to match their manipulation of the teaching and learning environment to the needs of the learner, but teachers should also know what type of activities they are most effective at delivering. Just as mismatched learning styles can cause dysfunctional learning situations, one of the causes of stress in teachers can be an incongruency between the type of activities they believe are effective, or feel they are good at carrying out, and external expectations of “good teaching”.

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teacher and is demonstrated as differences in teaching style. Teaching style has been defined by Kathleen Butler as:

“A set of attitudes and actions that open a formal and informal world of learning to the student. It is a subtle force that influences access to learning and teaching by establishing perimeters around acceptable learning procedures, processes and products. It is the powerful force of the teacher’s attitude to the student as well as the instructional activities used by the teacher and it shapes the learning-teaching experience.”

We have constructed a model of teaching styles derived both from a theoretical consideration of what the constituent factors of teaching style are and empirical findings from healthcare teachers.

METHODS

We undertook an electronic literature search of PubMed, EMBASE, CINAHL and ERIC databases and further hand searching in 2004. Search terms included: doctor, peer review, competence, capability, competency, education, teaching, training, teaching styles. We confined the literature to that specifically relating to healthcare teachers. Two researchers independently verified whether the 1600 or so abstracts resulting from the literature search were relevant and if the full papers reviewed were specific to the study aims. We extracted all descriptions of any aspects of teaching styles or delivery of a healthcare teacher from published papers assessed as being relevant.

Following a review of the literature we drew up a list of descriptive terms for a variety in teaching style. These key aspects were used as the basis of a list of paired questions to help define these differences. A period of consultation with fellow health teachers then followed and this refined the questions until we were sure that all themes that could be considered to be part of a definition of teaching styles were included. A 96 item questionnaire with a 1–5 Likert scale answer format was devised. We sent this to all 132 medical and dental teachers on the West Midlands Deanery database. A total of 88 questionnaires were returned (67%). The results were analysed using SPSS, using reliability analysis and principal component factor analysis. Reliability was very good with an overall Cronbach’s $\alpha$ of 0.901. There were no questions which stood out as being of poor reliability using the “alpha if item deleted” function in the calculations of reliability. Exploratory factor analysis using principal component factor analysis, with varimax rotation and with Kaiser normalisation, was used. The number of factors accepted is a matter of debate and of judgement. The Kaiser criterion, accepting all factors with an Eigen value of above 1.0, would have given 26 different factors. Clearly this would not have taken us much further in determining a small number of styles. Instead, the method described by Cattel11 was used, using a scree plot and determining the number of factors by the inflexion point in the scree plot curve, and accepting all factors above that point. This inflexion point was achieved with six factors, and setting SPSS to accept these six factors produced a convergence in 12 iterations. All Eigen values for all these factors were above 3.0, when the curve levelled out into “scree”. The other test is that setting the number of factors by the inflexion point in the scree plot curve, and accepting all factors above that point.11

The six teaching styles

- The all round flexible and adaptable teacher—This teacher can effectively use lots of different teaching activities, is comfortable teaching both peers and juniors, and is very aware of the way the whole environment affects both teachers and learners.
- The sensitive, student centred teacher—This teacher is very student centred, prefers teaching in small groups, with emotions to the fore using role play and drama, and is not comfortable doing straight presentations.
- The official formal curriculum teacher—This teacher is very well prepared as a teacher, likely to be accredited, is very aware of and teaches to the formal curriculum, and follows external targets for teaching.
- The straight facts, no nonsense teacher—This teacher likes to teach well defined facts, with straight talking, concentrating on specific skills, and much prefers not to be involved with multi-disciplinary teaching and learning.
- The big conference teacher—This teacher likes nothing better than to stand up in front of a big audience. This teacher does not like sitting in groups or one to one teaching.
- The one-off teacher—This teacher likes to teach small self contained bits of teaching, often ad hoc and on a one to one basis, with no props to help and no follow up.

Each of the six Staffordshire teaching styles is here described by a single sentence. This encapsulates the style which is itself, however, derived from answers to a variety of questions.

Having empirically derived these six discrete styles by self-assessment, work is now ongoing to test them out in the clinical setting by direct observation of teaching rather than self report, looking to match adoption of a particular style with students outcomes in varying teaching arenas. This work will be reported elsewhere.

DISCUSSION

So what influences which teaching style a teacher adopts? There is some evidence that choice of teaching style is one facet of a teacher’s general view about the purposes of education. We can describe two categories of teachers, formal and informal. Formal teachers see their role in terms of the dominance of outcomes such as examination results, demonstration of predetermined competencies and vocational training. These teachers tend to favour a structured approach. Informal teachers stress learners’ enjoyment of education and opportunities for self-expression and tend to favour discovery learning.

A formal teacher, if asked to identify how to measure an effective teacher, might be inclined to list classroom attributes such as orderliness, adherence to rules and student attentiveness, and stress the importance of knowledge base, preparation of lesson plans and handouts and clarity in setting objectives.

An informal teacher asked the same question might tend to list student attributes such as spontaneity of students responses, enthusiasm in learners, individuality of contribution.

Field-dependent learners, those who tend to be more informal, may prefer their teachers to be more discursive in their teaching style. They are at risk of feeling less comfortable with a more convergent, structured approach. Similarly field-independent learners, who tend to be more structured in their approach, might be less comfortable with discussion-based or divergent methods.

Flexible teachers not only have to be able to understand and teach in both ways, they need to be able to understand barriers to effective learning that such differences in cognitive styles can raise if not acknowledged.
CONCLUSION

One of the keys to effective teaching is flexibility. Having derived descriptors for six discrete teaching styles, we have developed a questionnaire based self assessment tool (SETS, The Staffordshire Evaluation of Teaching Styles questionnaire) that may be useful in teacher-training. Learner difference is only one factor in the teacher-learner dyad and teacher difference also needs to be taken into account.

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Competing interests: none declared.

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Postgrad Med J 2007 83: 145-147
doi: 10.1136/pgmj.2006.054106

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