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Developing a descriptive system for a new preference based measure of health related quality of life for children.

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This series is intended to promote discussion and to provide information about work in progress. The views expressed in this series are those of the authors, and should not be quoted without their permission. Comments are welcome, and should be sent to the corresponding author. **Key Words**: Economic evaluation, quality of life, paediatric, preference based measure, descriptive system

Abstract

Aims

The use of preference based measures (PBM) of health related quality of life is increasing in health care resource allocation decisions. Whilst there are measures widely used for this purpose in adults, research in the paediatric field is more limited. This paper reports on how the descriptive system for a new paediatric generic PBM of HRQoL was developed, including how the wording and order of the levels for each dimension was determined. The aim was to develop a descriptive system suitable for health state valuation, based on dimensions identified from previous work.

Methods

The main constraint in designing a descriptive system for a PBM is that the health states defined by the system should be amenable to valuation. Ideally, each dimension needs to contain levels that are ordered within it to fit this criteria well. To develop these levels, the first stage is to determine whether they should be frequency or severity based. To do this, data from the original qualitative work for developing the dimensions was used, reviewing how children described the dimensions. Once this was determined, existing scales from the paediatric literature were reviewed for their suitability and scales were also developed empirically, based on the qualitative interview data from children. The empirical scales were developed by taking the adverbial phrases from the interview work and to confirm the ordinality of these, a ranking exercise was undertaken with children. The resulting scales were applied to the dimensions and a draft descriptive system developed.

Results

For every dimension, severity arose as the predominant characteristic. No suitable scales were found in the paediatric literature for severity and so empirical scales based on the qualitative data were developed and used which resulted in seven different types of scale. Children were successfully able to rank these scales to determine the ordinality and the scales were applied to all the dimensions in order to form a draft descriptive system. The ordering of the statements resulting from the analysis made sense at face value.

Conclusions

This work has empirically developed a descriptive system for the dimensions of HRQoL identified in the original interview work. As the methods were based on using data from children, the content validity of the final measure should be increased and the language and terminology is appropriate. Further research is needed to test the descriptive system on a paediatric population and to test the psychometric performance. In addition, due to the constraints of preference based measures, the number of dimensions will need to be reduced to be amenable to valuation. Further research is required to do this.

Background

The use of preference based measures (PBM) of health related quality of life (HRQoL) is increasing in health care resource allocation decisions. In the UK in particular, NICE specifies that for its reference case, a PBM measure be used to quantify the benefits of an intervention (NICE 2004). PBMs allow the calculation of quality adjusted life years (QALYs) by combining length of life with quality of life, which can be used in economic evaluation as part of a decision making process. Whilst there are PBM widely used for this purpose in adults, research in the paediatric field is more limited (McCabe 2003).

Research by Stevens (2008) reported on the first stage in the development of a new generic paediatric PBM, which was to identify the dimensions of health related quality of life (HRQoL) for inclusion in the new measure. Qualitative interviews were carried out with children with a wide range of acute and chronic health conditions aged 7-11 years, to find out how their health affected their lives. The children were divided into two age groups (7-9 years and 9-11 years). Each group was sampled and analysed independently to explore whether they had a common HRQoL framework.

This research found that children aged 7-11 years share a common HRQoL framework and were successfully able to articulate how their health affects their lives. Eleven dimensions of HRQoL were identified, covering cover social, emotional and physical aspects of HRQoL. These dimensions are listed in Table 1.

The next stage in developing a PBM for children is to create a descriptive system based on these dimensions that is suitable for use in economic evaluation. The main constraint in designing a descriptive system for economic evaluation is that the health states defined by the system should be amenable to valuation. Ideally, each dimension needs to contain levels (response scales) that are ordered within it to fit this criteria well.

Existing quality of life measures have generally taken an approach to descriptive system development whereby a series of items or statements are developed using focus groups, the literature or interviews. Work is then done to develop order and scales for these items, or response options could be based on Likert scale type responses (Streiner 1995). These are then reduced or sorted into factors or dimensions using psychometric techniques such as factor or Rasch analysis. Reduction of items is common as generally long lists of items are generated which

are too long to have each item in the final questionnaire, hence testing is useful to identify redundant items (for example if items are not used or are very similar to another item), incomprehensible or ambiguous items and to test the internal consistency of a scale (Streiner 1995). Both factor analysis and Rasch techniques can be used and can be used as complements rather than alternatives (Tennant 2004).

The work by Stevens (2008)**Error! Bookmark not defined.** took a different approach, in that the interviews and analysis were driven by trying to determine dimensions of paediatric health related quality of life directly. The qualitative work provides supporting evidence as to why the dimensions arose and the terminology of the dimensions is based on the wording in the interviews. There is very little guidance in the literature about how to develop levels for dimensions directly. One way could be to consider the use of standard response scales.

Some instruments use Likert type responses (Streiner 1995) which are based on options related to frequency (e.g. never, sometimes, often), the intensity/severity of a dimension (e.g. a little, moderately, a lot), or the level of agreement with something (strongly agree, disagree etc).

Existing generic preference based measures have taken different approaches when using scales. The EQ-5D takes the severity approach, using three levels for each dimension, the HUI2/3 has a mixture of both (severity and frequency) and the SF-36 (used to obtain the SF-6D) has a mixture of both, but is mainly a frequency based approach (Brazier 2007). The levels on the EQ-5D descriptive system, (a generic preference based measure for adults), were developed to be ordinal and were developed using an expert panel. The developers also recommend using severity based scales although they do not justify why (Kind 2005).

It can make a substantial difference to the descriptive system depending on the scale used. For example a frequency based scale may not capture the range of how something can affect a person, e.g. you can always be worrying, but only at a low level, which is different to being extremely worried. Equally, a scale based on severity may not adequately describe frequency. Another type of scale which is used in health status measures is the level of agreement, which asks a respondent how much they agree (or disagree) with a statement. This type of scale does not really make sense for a preference based measure as you do not want a separate scale for each item level. There is also a scale which asks you to indicate how much something bothers you, however, again this is not suitable for a preference based measure as it is not useful for societal valuation, but may be useful for individual clinical decision making.

The majority of scales used in existing paediatric measures are Likert type with a variety of response options and the vast majority are frequency based rather than severity (Eiser 2001). Most do not give any explanation as to how the levels or scales were developed. Those with a shorter recall period, the 16D/17D and HUI2/3 are statement based (Apajasalo 1996), (Health Utilities Index).

There is not much empirical work in the paediatric field with regard to the use of response options and children's ability to understand and use them across ages. (Eiser 2001). Many existing measures use response options with between 3 and 7 points and there is literature which has shown that the minimum number of categories used by raters should be in the region of between 5 and 7 (Streiner 1995). Some measures use the same number of response options for each question, and some use different numbers of response options. The HUI2/3 and the 16D/17D use descriptive statements instead, however these are still ordinal (Apajasalo 1996) (Health Utilities Index). **Error! Bookmark not defined.**There are also developmental differences in children's ability to understand and respond to items on a Likert scale. Eight year old children can accurately use a 5 or 7 point scale to rate their health status whereas younger children tend to use more extreme responses. Some instruments have used visual aids to help with this, for example the Child Health and Illness Profile, which uses graduated circle sizes for the response options (Riley 2004).

The recall period is the time frame respondents are asked to think about when completing a questionnaire. In existing paediatric generic measures, there is a whole mixture of recall periods, from several weeks to the current day. More research is needed in this area about what is appropriate for children and different health conditions (Eiser 2001), (Matza 2004).

Many of the existing paediatric instruments based on a frequency approach ask questions about how often something has been the case over the past few weeks. The evidence from the qualitative interviews undertaken in previous work by Stevens (2008) is that children can recall information about their health and understand and describe it well, but often have difficulty remembering when they had a particular health problem or when an event had occurred. The advantage of asking about HRQoL today, is that you are focusing on a point in time and you also remove any potential problems with recall bias as children are thinking about the present time. The disadvantage is that this may miss important episodes in the context of a clinical trial for example, particularly in episodic conditions.

This paper reports on how a descriptive system for a new paediatric generic PBM of HRQoL was developed, including how the wording and order of the levels for each dimension was determined. The aim was to develop a descriptive system suitable for health state valuation, based on the dimensions identified from the previous interview work (Stevens 2008).

Methods

The first stage in developing levels (response scales) for the dimensions was to determine whether they should be frequency or severity based. To do this, the data from the original qualitative work for developing the dimensions was used (Stevens 2008). All the interview transcripts were reviewed and adverbial phrases were extracted when the children were describing the dimensions and the way in which something was described, for example, 'it's a <u>bit</u> annoying' or 'it's <u>quite</u> annoying'. Phrases were extracted for each dimension separately and this was used to determine whether the dimension was about severity or frequency. In this way, the decision was based on the data.

Once this had been determined, the next step was to develop the scales for each dimension. Scales were developed based on the qualitative interview data from children and using guidance from the methodological literature (Streiner 1995) together with what is required for a PBM (i.e. ordinal levels within each dimension) (Brazier 1999). The principals from the literature are as follows:

- Items should be clear, relevant and understandable
- Scales will be developed with 5-7 levels
- Language should be kept simple
- Double barrelled questions will be avoided (asking two different things within one question)
- Negatively worded items will be avoided, using positive wording styles instead

• Vague quantifiers will be avoided, although this can be very difficult in practice.

In addition, the following approach was also followed due to using the qualitative data and the constraints of a PBM:

- The qualitative interviews were used to guide the wording of the levels, by analysing how the children described the problem, e.g. It hurts <u>a bit</u>, and it hurts <u>a lot</u>
- Levels were ordinal, using an adjectival scale with discrete responses
- Language were based on the qualitative data

From the original qualitative work, there were alternative wording terms used to describe the dimensions, for example pain and hurt. Where more than one term existed, the alternative wordings were each developed into separate questions for future testing work about which was the most appropriate.

Not all terms were used as alternatives, as sometimes words were used by the older age group and so were more complex, for example miserable. As the measure was being developed for the two age groups combined (as they were found to have a common HRQoL framework in the earlier research (Stevens 2008), where there was a choice over wording, the wording used by the younger age group was selected.

The final questions developed were as follows. Worried and scared were developed as separate questions and sad and upset were developed as separate questions. Miserable is just a more sophisticated wording style by the older children and was therefore not included. Unhappy was felt not to be a good term for use in a questionnaire as it is negatively worded and so was not included. Annoyed, frustrated and angry were all developed as separate questions. Hurt and pain were developed as separate questions. School work and learning meant the same things in the interviews, therefore the younger children's terminology was used (i.e. school work). Daily routine was the same for both age groups so this was developed into a question. Tired and weak were developed into questions as drowsy and weary were not in common across age groups, and energy is the opposite meaning. Joining in activities was the same for both age groups so this was developed into a question. Sleep was the same for both age groups so this was developed into a question. Finally, jealous and embarrassed were both developed into questions.

This resulted in seventeen questions in total: Worrying; Sad; Weak; Angry; Pain; Frustrated; Hurting; School Work; Upset; Tired; Annoyed; Scared; Sleep; Embarrassed; Jealous; Daily Routine and Joining in activities.

As described above, the qualitative data was used to develop levels (response scales) for each of these 17 questions. In addition, the wording used tried to incorporate the ways in which children had described the dimensions, for example for worried, sad, angry, weak and embarrassed, children were often using the term 'feel'. For hurt and pain, they were describing it in terms of it hurting or <u>having</u> pain.

Whilst the scales developed would be based on children's descriptions, the ordinality of these scales needed to be confirmed. As children have been involved at every stage of the development of this measure and the measure is intended for children, it was important to verify the order of the scales with them.

The ordinality of the scales developed was tested by asking children to rank statements in order of their severity. Children were sampled from the same two schools used in the original qualitative work (Stevens 2008).

Levels (response scales) were created for each question by applying the scales developed. These scales were applied to all seventeen questions: Worrying; Sad; Weak; Angry; Pain; Frustrated; Hurting; School Work; Upset; Tired; Annoyed; Scared; Sleep; Embarrassed; Jealous; Daily Routine; Joining in activities. Seventeen ranking exercises was infeasible for a child to do in one sitting, and so a subset of the scales from the questions were ranked, making sure each different type of scale developed was covered. This assumes that the ordinality of the scale is independent of the item (question).

Cards were created for each question being tested, with each card displaying a level and these were put together into a coloured envelope, one for each question/scale being tested. Children were asked to choose an envelope, one at a time and asked to rank the cards inside in order of severity (how bad they thought they were) from best to worst. Ties were allowed. Where children ranked cards as equal they were asked if they had a preference for the wording. The ranking work was first piloted on 10 children aged 7-11 years (5 male and 5 female). They were able to complete the tasks successfully and advised on the size of the cards, the font used and the colours of the cards.

For the main study, 31 children were sampled from both schools involved in the research and each child carried out the same number of ranking exercises. The aim of the sampling was to get an equal balance across gender and all year groups and to include both schools equally. Children were approached one by one and if they consented to the research, they were given the ranking tasks to do. All children carried the task out by themselves with the researcher sat with them in the school library or the dining room. The children's rankings were recorded along with any comments on preferences for wording where levels were ranked equally.

Analysis

The rank data was analysed by looking at the mean ranking and variation (standard deviation) and by using Kendall's coefficient of concordance test statistic. The approach of looking at the mean ranking is similar to work undertaken by Keller et al (1998) as part of their work testing the equivalence of translations of widely used response choice labels, where they looked at the mean response choice ratings by country and language.

The Kendall statistic is between 0 and 1 and is a measure of the agreement between rankings, 0 means there is no agreement between rankings. It measures the extent to which ordering by each of two (or more) variables would arrange the observations into the same numerical order (Bland 2001).

The rank data was coded using the mid rank method (Argyrous 2006) (Hinton 1995) as this is more appropriate for this type of analysis and ensures that the sum of ranks is maintained. That is, a rank of 1 was coded as 1, a rank of 2 was coded as 2 and where rankings were tied, each tied ranking was given a value of the midpoint of the previous and next ranks. For example, a ranking sequence where the second and third cards were ranked equally was coded as 1,2.5,2.5,4,5.

Where there was a very small difference between mean rankings, this was taken to mean that only one statement was needed for the descriptive system. A mean ranking of less than 0.20 (chosen as a very low and conservative estimate) was taken to be a small difference. In order to choose between the statements, the

variation and the preferences of children for the wording was looked at, with the least amount of variation taking priority.

Results

For every dimension, severity arose as the predominant characteristic. In a couple of dimensions (worrying and angry/annoyed/frustrated) frequency arose in one case in each. For worrying, this was a mixture of the two "I always get a bit worried". For angry/annoyed/frustrated, it was frequency "it's always annoying". For sleep, one child described it in frequency terms "can't get to sleep that often". In the schoolwork, activities and daily routine dimensions, children were describing how much they could or couldn't do something which again indicated a severity approach.

As the vast majority of dimensions and evidence within dimensions steered towards a severity based approach, the dimension scales developed were based on this.

The adverbs and adverbial phrases used to describe the dimensions in the qualitative data are listed below.

at all	a little bit	a bit	quite	quite a lot
much	a lot	very	very much	really

The only wording not included in this list was 'kinda', as this is a colloquial word and was felt to be not appropriate to include.

Applying these phrases to the dimensions resulted in seven different types of scale, some of which were very similar, but had subtle differences depending on how the dimension fitted with the wording. There were therefore 7 unique scales to test in the ranking work, and it was felt appropriate that each child should rank each one. Figure 1 gives the 7 scales tested and the dimensions (questions) to which each scale applies.

All 31 children consented to take part in the ranking and all children completed all 7 ranking tasks. The characteristics of the sample are shown in Table 2. Table 3 shows the mean rank order, standard deviation and difference in mean rank for each of the 7 scales.

Table 4 shows the Kendall coefficient for each scale which was very high for all scales. The lowest was for scale 3 (school work). An agreement of 0.81 to 1.00 is

suggested to be almost perfect agreement for the Kappa statistic, which is another statistical measure of agreement (Landis 1977).

The difference in the mean rank order was very low for the statements highlighted in bold in Table 3 (My sleep is very affected and My sleep is really affected had a difference of 0.05, My school work is very affected and My school work is really affected had a difference of 0.0 and I feel very worried and I feel really worried had a difference of 0.16).

As there was such a small difference between these mean rankings, it indicated that only one statement was needed for the descriptive system. The preferences of children when these statements were ranked equally are shown in Table 5. The choice made over these three sets of statements where the difference in mean rank order was low was as follows:

(1) **Sleep**: 'really' had a lower standard deviation and a smaller range (shown in Table 3). The preferences of the children were equal. Therefore 'My sleep is really affected' was chosen.

(2) School work: 'really' had a lower standard deviation and a smaller range (shown in Table 3). 'Very' has one more vote. Therefore 'My school work is really affected' was chosen.

(3) Worried: 'really' and 'very' have the same standard deviation and range(shown in Table 3). 'Very' is preferred by one vote. Therefore 'I feel very worried' was chosen.

The results of this ranking exercise were then applied to the scales on all questions in order to form the draft descriptive system.

Discussion

A draft descriptive system has been developed from the dimensions formed from the original qualitative work (Stevens 2008). This descriptive system is based on the qualitative data and is for both age groups combined. It contains 17 questions, some of which are alternative wording for the same dimensions, as further testing is required to determine the best wording. Instead of developing scales empirically, a scale could have been used from the paediatric literature however the only severity based scale in the literature for paediatric generic instruments is the scale from the KIDSCREEN (MAPI). This scale is for children aged 8-18 years and uses the scale:

Not at all slightly moderately very extremely

The words slightly, moderately and extremely never appeared in the qualitative interviews undertaken in the original qualitative research (Stevens 2008) and seem complex for young children and so this was felt not to be a suitable option.

The dimensions contain levels (response scales) which are based on severity which was determined empirically from the qualitative data. The original interviews contained a good mix of acute and chronic conditions such as sickness, fever, flu, pneumonia, hearing problems, vision problems, asthma, weak wrists and ankles, eczema, hyperactive fits and abnormal muscle growth. Children with these problems all described the dimensions mainly in terms of severity, whether they had acute or chronic conditions.

The ranking exercise worked well with children and they were successfully able to complete the tasks with a 100% completion rate. The ordering of the statements resulting from the analysis made sense at face value and there was very good agreement in the rankings by children. Whilst the sample size was quite low in this study, the high agreement in rankings gives confidence in the results produced.

The advantages of this new descriptive system being developed with children are that the language is appropriate to children of this age group, which will aid self completion and the content validity is likely to be increased.

The spacing of the scales is not necessarily even, however they do not have to be equally spaced as ultimately this will be a preference based instrument and those levels that are too close will drop out in future testing work. It is also likely that there are too many levels as whilst the principle was to aim for 5-7 levels, a few of the scales have more than this number (sleep and school work with 9 and 8 respectively) however in scale development it is usual to start with too many levels and then reduce these down. These issues will be addressed in future work.

Conclusion

This work has empirically developed a descriptive system for the dimensions of HRQoL identified in the original interview work. As the methods were based on using

the data from children, the content validity should be increased. 17 questions are contained within the descriptive system, some of which are alternative wordings for the same dimension. Further research is needed to test these alternative wordings on a paediatric population and to test the psychometric performance of this descriptive system. In addition, due to the constraints of PBMs, the number of dimensions will need to be reduced to be amenable to valuation. Further research is required to do this.

Figure 1: Scales tested (and applicable wording for questions)

Scale 1 (Worrying, Sad, Weak, Angry, Frustrated, Upset, Tired, Annoyed, Scared,

Embarrassed, Jealous) I don't feel worried I feel a little bit worried I feel a bit worried I feel quite worried I feel very worried I feel really worried

Scale 2 (Pain)

I don't have any pain I have a little bit of pain I have a bit of pain I have quite a lot of pain I have a lot of pain I am really in pain

Scale 3 (Daily routine)

I have no problems with my daily routine I have a few problems with my daily routine I have some problems with my daily routine I have many problems with my daily routine I can't do my daily routine

Scale 4 (Hurting)

It doesn't hurt It hurts a little bit It hurts a bit It hurts quite a bit It hurts quite a lot It hurts a lot It hurts a lot It really hurts

Scale 5 (Joining in activities)

I can join in with any of the activities that I want to I can join in with most of the activities that I want to I can join in with some of the activities that I want to I can join in with a few of the activities that I want to I can join in with none of the activities that I want to

Scale 6 (Sleep)

My sleep is not affected My sleep is a little bit affected My sleep is a bit affected My sleep is quite affected My sleep is affected quite a lot My sleep is really affected My sleep is very affected My sleep is affected a lot I can't sleep at all

<u>Scale 7 (School Work)</u> My school work is not affected My school work is a little bit affected My school work is a bit affected My school work is quite affected My school work is affected quite a lot My school work is really affected My school work is very affected I can't do my school work

	(7-9 years)	(9-11 years)
1	Worried	Worried
	Scared	
2	Sad	Sad
	Upset	Upset
		Unhappy
		Miserable
3	Annoyed	Annoyed
	Frustrated	Frustrated
		Angry
4	Hurt	Hurt
	Pain	Pain
5	School work	Learning
6	Daily Routine	Daily Routine
7	Tired	Tired
	Weak	Weak
		Energy
		Weary
	Drowsy	
8	Joining in activities that want to	Joining in activities that want to
9	Sleep	Sleep
10	Jealous	
11		Embarrassed

Table 1: Dimensions of Health Related Quality of Life (Stevens 2008)

Table 2: Characteristics of the sample

Characteristic		
Hunter's Bar Junior School		
Firs Hill Community Primary School		
Male	15	
Female	16	
Y3 (age 7-8 years)	8	
Y4 (age 8-9 years)	8	
Y5 (age 9-10 years)	8	
Y6 (age 10-11 years)	7	
White		
Mixed/dual heritage		
Asian or Asian British		
Black or Black British		
Chinese		
Excellent health		
Very Good health		
Good health		
Fair health		
Poor health		

Level	Mean rank order	SD	Difference	
I can join in with any of the activities that I want to	1.10	0.30		
I can join in with most of the activities that I want to	2.02	0.49	0.92	
I can join in with some of the activities that I want to	3.08	0.43	1.06	
I can join in with a few of the activities that I want to	3.81	0.46	0.73	
I can join in with none of the activities that I want to	5.00	0.00	1.19	
My sleep is not affected	1.00	0.00	4 50	
My sleep is a little bit affected	2.52	0.71	1.52	
My sleep is a bit affected	2.77	0.59	0.26	
My sleep is quite affected	3.82	0.75	1.05	
My sleep is affected quite a lot	5.08	0.50	1.20	
My sleep is affected a lot	6.31	0.69	0.92	
My sleep is very affected	7.23	0.92	0.02	
My sleep is really affected	7.27	0.76	1 73	
I can't sleep at all	9.00	0.00		
My school work is not affected	1.19	1.08	1.00	
My school work is a little bit affected	2.52	0.70	1.32	
My school work is a bit affected	2.84	0.66	0.32	
My school work is quite affected	3.85	0.83		
My school work is affected quite a lot	5.02	0.70	1.10	
My school work is very affected	6.29	1.08	0.00	
My school work is really affected	6.29	0.69	1.71	
I can't do my school work	8.00	0.00		
I don't feel worried	1.00	0.00	1 97	
I feel a little bit worried	2.27	0.48	0.73	
I feel a bit worried	3.00	0.55	0.70	
I feel quite worried	3.73	0.60	1 69	
I feel very worried	5.42	0.45	0.16	
I feel really worried	5.58	0.45		
I don't have any pain	1.00	0.00	1 29	
I have a little bit of pain	2.29	0.42	0.42	
I have a bit of pain	2.71	0.42	1.58	
I have quite a lot of pain	4.29	0.48	0.79	
I have a lot of pain	5.08	0.59	0.55	
I am really in pain	5.63	0.66		

Table 3: Mean rank order, standard deviation (SD) and difference in mean rank, for each set of statements

I have no problems with my daily routine	1.00	0.00	1.27
I have a few problems with my daily routine	2.27	0.40	0.45
I have some problems with my daily routine	2.73	0.40	1.31
I have many problems with my daily routine	4.03	0.18	0.94
I can't do my daily routine	4.97	0.18	0.01
It doesn't hurt	1.00	0.00	1 3/
It hurts a little bit	2.34	0.57	0.55
It hurts a bit	2.89	0.59	0.00
It hurts quite a bit	3.77	0.48	1 52
It hurts quite a lot	5.29	0.51	0.66
It hurts a lot	5.95	0.57	0.81
It really hurts	6.76	0.56	0.01
			1

Table 4: Kendall Coefficient

Set	Kendall Coefficient
1	0.925
2	0.939
3	0.880
4	0.918
5	0.914
6	0.954
7	0.933

Table 5: Preference of children when statements were ranked equally

	Statement	Children's Preference (n preferring each statement)
4	My sleep is very affected	1
1	My sleep is really affected	1
0	My school work is very affected	3
2	My school work is really affected	2
3	I feel very worried	3
	I feel really worried	2

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