## Table2. Parameters of measurement and scale evaluations

<b>Expectation items mainly regarding to treatment per se (8 papers)</b>							
Author/Year	Expectation Parameters	Common Factor summary	Scale evaluation				
Sayers et al.	1. At your initial appointment do you expect to		1. Developed by Sayers et al., 2006 [12]				
2006 [12]/	a. Have a brace fitted/b. Have a check-up and diagnosis/c. Have a discussion about		2. Semi-structure qualitative interview (30 subjects), a				
2007 [25]	treatment /d. Have x-rays/ e. Have impression/f Have oral hygiene checked		questionnaire was devised form the key themes and concepts				
	2. What type of orthodontic treatment do you expect?		identified in the interview.				
Hiemstra et	a. Braces, don't know what type? /b. Train track braces? /c. Teeth extracted? /d. Head		3. Pilot study (10 participants)				
al. 2009, [26]	brace/e. Jaw surgery?		4. Modified Question, tested again. 22 participants finished test-				
	3. Do you think orthodontic treatment will give you any problems?		retest.				
Nasr et al.	Mean range 30-43.7		5. The questionnaire had good face validity				
2011 [27]	4. Do you think wearing a brace will be painful?		6. Internal consistency tested with Cronbach's alpha				
	Mean range 43.8-54.1		7. External consistency: Test-retest was statistically significant				
Sadek et al.	5. Do you think orthodontic treatment will produce problems with eating?		using Spearman's correlation				
2015 [22]	Mean range 47.3-57.5						
	6. Do you expect orthodontic treatment to restrict what you can eat or drink?						
	Mean range 47.5-67.1						
	7. How do you think people will react to you wearing a brace?						
	Mean range 48.9-62.9						
	8. How long do you expect orthodontic treatment to take						
	Don't know / 1-2 years						
	9. How often do you think you will need to attend for checking up						
	1-2 months	Initial appointment					
	10. Do you expect orthodontic treatment to						
	a. Straighten you teeth/b. produce a better smile/c. make it easier to eat/d. make it easier						
	to speak/e. Make it easier to keep my teeth clean/f. Improve my chances of a good	Types of treatment					
	career? / g. Give you confidence socially						
Souza et al.	Patient expectations in relation to the orthodontic treatment	Pain problems	The instrument of data collection was a survey composed of 10				
2013 [24]	1. Orthodontic treatment situation	<b>▲</b>	closed-ended questions, drawn from a pilot study conducted at Southwest Bahia State University, in 2004.				
	a. Finished successful/b. finished unsuccessfully/c. in treatment, presenting						
	improvement/d. In treatment, with no improvement/e. Not concluded	<b>Restriction in function</b>					
	2. Main reason for searching orthodontic treatment						
	a. Esthetics/b. Occlusal disturbances/c. TMJ pain	<b>Restriction in oral hygiene</b>					
	3. Treatment duration						
	a. Quick/b. As expected/c. Long due to case complexity/d. Long due to lack of	G • 1 4• •					
	cooperation	Social activity					
	4. Treatment results						
	a. Very good, esthetic, social and psychological improvement/b. Satisfactory, but did not	Duration of treatment					
	change social and psychological life/Regular/c. Bad, did not fulfill expectations/d. Bad,						
	the problem relapsed						
	5. Type of orthodontic appliance	Frequency of revisit					
	<i>a. Metallic</i> /b. Removable transparent						
	6. Interference of orthodontic treatment in social relations	Treatment Outcomes					
	a. Partial, compromising smile and relations/b. Partial, without compromising social						
	life/c. Did not interfere						
	7. Interference of orthodontic treatment in oral hygiene	Relationship with					
	a. No difficulties in oral hygiene/b. Difficulties only in flossing/c. <i>Difficulties in brushing</i>	Orthodontists					

Rasool et al. 2012 [23] Zhang et al. 2007 [20]	<ul> <li>and flossing</li> <li>8. Main complaint about treatment <ul> <li>a. Duration/b. <u>pain</u>/c. oral hygiene/d. esthetics/e. difficulty in chewing/f. difficulty in using orthodontic auxiliaries/high financial cost</li> </ul> </li> <li>Patient expectations in relation to the orthodontist. <ul> <li>1. Patient opinion in relation to the orthodontist</li> <li>a. <u>Concerned with patient's health</u>/b. Concerned with patient's health, but unprepared/c. Concerned with patient's health, but with no skills/d. Little concern with patient</li> <li>2. Professional which should perform the orthodontic treatment</li> <li>a. General practitioner/b. <u>Specialist</u></li> </ul> </li> <li>Q1. What are your expectations of first visit? <ul> <li>a. <u>Examination &amp; diagnosis</u> b. Discussion c. Get braces d. X-rays e. Impressions f. History taking</li> <li>Q2. What types of orthodontic treatment do you expect? <ul> <li>a. Extraction of teeth b. <u>Fixed braces</u> c. Jaw surgery d. Removable appliances</li> </ul> </li> <li>Q3. What experiences/side effects do you expect from orthodontic treatment? <ul> <li>a. Embarrassment with appliances b. Pain/discomfort in teeth c. Restrict eating/drinking</li> <li>d. Speech problems e. <u>Difficulty cleaning teeth</u> f. Problems of gums g. Headache h. Ulcers in mouth</li> </ul> </li> <li>Q4. What benefits of orthodontic treatment do you expect? <ul> <li>a. Improved appearance of teeth b. Improved function (chewing, speech) c. Improved smile d. Improved psycho-social well-being e. Break habits f. Gain confidence g. Improved oral and dental health h. Decrease showing too much gums</li> <li>Q5. What duration of orthodontic treatment do you expect? <ul> <li>a. 4 years b. 3 years c. <u>2 years</u> d. 1 year e. 6 months f. 2 months</li> <li>Q6. What reaction do you expect from others/public towards your treatment? <ul> <li>a. None b. <u>Positive</u> c. Negative</li> </ul> </li> <li>Q7. What do you expect about frequency of orthodontic visit? <ul> <li>a. 6 months b. 4 months c. 2 months d. <u>Once a month</u> e. Twice a month f.</li></ul></li></ul></li></ul></li></ul></li></ul>	Proficiency of dentist         Complications         1.         2.         Second symptom	subjects Modifier response A 37-ite al., stanc	questionnaire measure was first piloted on 10 who were not part of the study. (No data) d questionnaire was tested in the 50 subjects and only e number was recorded.					
2007 [20]	expect (i.e, to have bleeding gums)?'	Oral symptom     Functional limitation     Emotional well-being     Social well-being							
l									
	Expectation items mainly regarding to treatment outcomes (6 papers)								
Author/Year	Expectation Parameters	Responding	s most	Scale evaluation					
Bos et al. 2003 [7]	Expectation items: 1. General health/ Performance at school or work	Four factors:		1.Items were picked and modified from 1988/1995, Kiyak et al. which is related to Orthoganthic					

Tung et al. 1998 [29] Wezel et al. 2015 [30]	<ol> <li>Pain or discomfort in the maxillary joint</li> <li>Complaints about maxillary sinus and sinus cavity</li> <li>Interacting with people</li> <li>Speaking</li> <li>Headache</li> <li>Sleeping</li> <li>Interaction with other</li> <li>Breathing</li> <li>Feeling in company of other people</li> <li>Facial appearance</li> <li>Self-confidence</li> <li>Self-confidence</li> <li>Self-image</li> <li>Dental appearance</li> <li>Self-image</li> <li>Fit of front teeth</li> <li>Fit of upper and lower teeth</li> <li>Ability to chew food</li> <li>Clicking of joints</li> <li>Bite off food properly</li> <li>Variance explained</li> </ol>	Factor One (10 items): "General well-being Factor Two (5 items): "Self-image/appearance" Factor Three (4 items): "Future dental health" Factor Four (3 items): "Oral function."	<ul> <li>expectation [31]. (The original study have no full text available, however, this questionnaire was cited in lots of papers)</li> <li>2. Tung only picked 14 items form the Kiyak et al. 's questionnaire, kept four dimentions [31].</li> <li>3. In Bos et al.'s study (22 items):</li> <li>Internal consistency by Cronbach's alpha</li> <li>Multiple regression analysis was performed to estimate the satisfaction, age, sex on expectations</li> <li>Principle components analysis of the expectation questionnaire showed 4 factors, accounting for 72% of the total variance.</li> <li>4. Wezel et al. (2015) used the same scale with Bos et al. (2003), the Cronbach alpha was presented 0.94 (total scale); 4 subscales were 0.94 (general well-being); 0.91 (self-image); 0.83 (future dental health); 0.85 (oral function).</li> </ul>
Petrone et al. 2003 [33] Bennett et al. 1997 [8]	Parents were asked to rate the likelihood of 10 post-orthodontic treatment outcomes:         1.       better smile         2.       more attractive profile,         3.       better-looking teeth,         4.       better "bite"         5.       teeth easier to brush,         6.       straighter teeth,         7.       improved self-esteem,         8.       look better,         9.       patient pleased with way he or she looks         10.       straight teeth forever	<ol> <li>Two factors were found in Petrone's paper: Factor one: Straightness of the teeth Factor two: Appearance</li> <li>Four factors in Bennett's Factor one (10 items): Benefits Factor two (6 items): Long term risks Factor three (6 items): Short term risks Factor four (4 items): Inconvenience</li> </ol>	<ol> <li>In Petrone's study, items were from the Bennett's items (Factor one, benefits). The overall scale showed high reliability (Cronbach's alpha). Multiple regression model and factor analyses were conducted</li> <li>Bennett et al.'s study had 52 items. Items for the questionnaire were developed via a qualitative, telephone interview process. Data were analyzed using factor analysis and reliability analysis for scale development, and analysis of variance for preliminary validity assessment. Results of the factor analysis for parents yielded four main factors that together accounted for 45.5% of the variance.</li> </ol>
Tuncer et al. 2015 [21]	<ul> <li>Only one item was asked:</li> <li>What are your expectations from an orthodontic treatment (More than one answer may be given)</li> <li>a. Better alignment of my/my child's teeth</li> <li>b. Improvement of my/my child's facial esthetics</li> <li>c. Achieve better oral functioning such as chewing, quality of speech, or other (Please specify)</li> </ul>	<ul> <li>Dental appearance</li> <li>Facial esthetics</li> <li>Oral Function</li> </ul>	No data afforded for the validity and reliability of the questionnaire. The author only stated this questionnaire was adapted from a previous study that was found to be valid and reliable after necessary changes were made.

\*U\_mean the main responding