

## Supplemental file

### 1. Hospital for Special Surgery Knee-Rating Scale<sup>1</sup>

#### **Hospital for Special Surgery Knee-Rating Scale (HSS)**

<b>Criteria</b>	<b>Points</b>
Pain (30 points)	
No pain at any time	30
No pain on walking	15
Mild pain on walking	10
Moderate pain on waling	5
Severe pain on walking	0
No pain at rest	15
Mild pain at rest	10
Moderate pain at rest	5
Severe pain at rest	0
Function (22 points)	
Walking and standing unlimited	12
Walking distance of 5-10 blocks and standing ability intermittent >1/2hr	10
Walking 1-5 blocks and standing up < 1/2hr	8
Walking less than 1 block	4
Cannot walk	0
Climbing stairs	5
Climbing stairs with support	2
Transfer activity	5
Transfer activity with support	2
Range of Motion (18 points)	
1 point for each 8 degrees (max 18 points)	18
Muscle Strength (10 points)	
Excellent: cannot break quadriceps power	10
Good: can break the quadriceps power	8
Fair: move through the arc of motion	4
Poor: cannot move through arc of motion	0
Flexion Deformity (10 points)	
No deformity	10
Less than 5 degrees	8
5-10 degrees	5
> 10 degrees	0
Instability (10 points)	
None	10

Mild: 0-5 degrees	8
Moderate: 5-15 degrees	5
Severe: > 15degrees	0
<b>Subtraction</b>	
One cane	-1
One crutch	-2
Two crutches	-3
Extension lag of 5 degrees	-2
Extension lag of 10 degrees	-3
Extension lag of 15 degrees	-5
Each 5 degrees of varus	-1
Each 5 degrees of valgus	-1

Excellent  $\geq 85$

Good = 70-84

Fair = 60-69

Poor  $\leq 60$

## 2. Hamilton Anxiety Rating Scale (HAMA)<sup>2</sup>

### **Hamilton Anxiety Rating Scale (HAMA)**

Below is a list of phrases that describe certain feeling that people have. Rate the patients by finding the answer which best describes the extent to which he/she has these conditions. Select one of the five responses for each of the fourteen questions.

0 = Not present, 1 = Mild, 2 = Moderate, 3 = Severe, 4 = Very severe.

#### **1 Anxious mood**

Worries, anticipation of the worst, fearful anticipation, irritability.

0  1  2  3  4

#### **2 Tension**

Feelings of tension, fatigability, startle response, moved to tears easily, trembling, feelings of restlessness, inability to relax.

0  1  2  3  4

#### **3 Fears**

Of dark, of strangers, of being left alone, of animals, of traffic, of crowds.

0  1  2  3  4

#### **4 Insomnia**

Difficulty in falling asleep, broken sleep, unsatisfying sleep and fatigue on waking, dreams, nightmares, night terrors

0  1  2  3  4

#### **5 Intellectual**

Difficulty in concentration, poor memory.

0  1  2  3  4

**6 Depressed mood**

Loss of interest, lack of pleasure in hobbies, depression, early waking, diurnal swing.

0  1  2  3  4

**7 Somatic (muscular)**

Pains and aches, twitching, stiffness, myoclonic jerks, grinding of teeth, unsteady voice, increased muscular tone.

0  1  2  3  4

**8 Somatic (sensory)**

Tinnitus, blurring of vision, hot and cold flushes, feelings of weakness, pricking sensation.

0  1  2  3  4

**9 Cardiovascular symptoms**

Tachycardia, palpitations, pain in chest, throbbing of vessels, fainting feelings, missing beat

0  1  2  3  4

**10 Respiratory symptoms**

Pressure or constriction in chest, choking feelings, sighing, dyspnea.

0  1  2  3  4

**11 Gastrointestinal symptoms**

Difficulty in swallowing, wind abdominal pain, burning sensations, abdominal fullness, nausea, vomiting, borborygmi, looseness of bowels, loss of weight, constipation.

0  1  2  3  4

**12 Genitourinary symptoms**

Frequency of micturition, urgency of micturition, amenorrhea, menorrhagia, development of frigidity, premature ejaculation, loss of libido, impotence

0  1  2  3  4

**13 Autonomic symptoms**

Dry mouth, flushing, pallor, tendency to sweat, giddiness, tension headache, raising of hair.

0  1  2  3  4

**14 Behavior at interview**

Fidgeting, restlessness or pacing, tremor of hands, furrowed brow, strained face, sighing or rapid respiration, facial pallor, swallowing, etc.

0  1  2  3  4

0 ~ 7: No anxiety

8~14: Possible anxiety

15~21: Mild anxiety

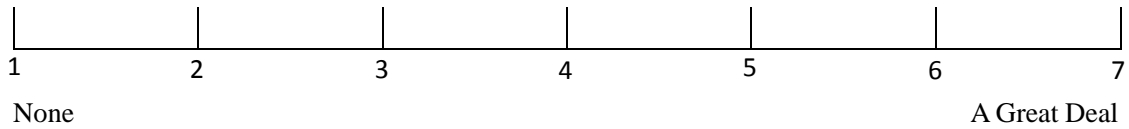
22~29: Obvious anxiety

>29: Severe anxiety

3. Functional Living Index Emesis (FLIE)<sup>3</sup>

**Functional Living Index Emesis (FLIE)**

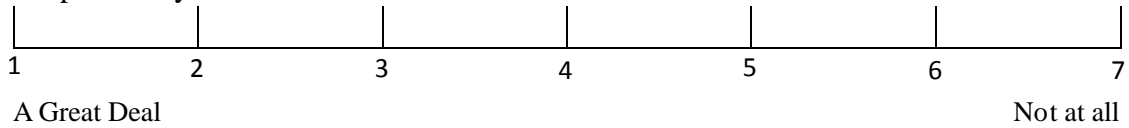
1. How much nausea have you had in the past 3 days?



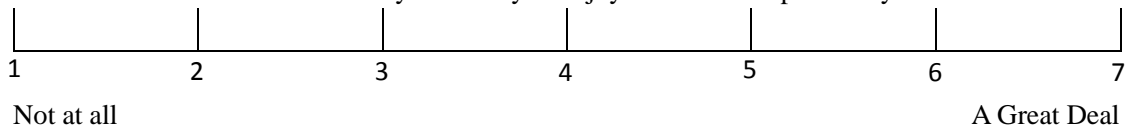
2. Has nausea affected your ability to maintain usual recreation or leisure activities in the past 3 days?



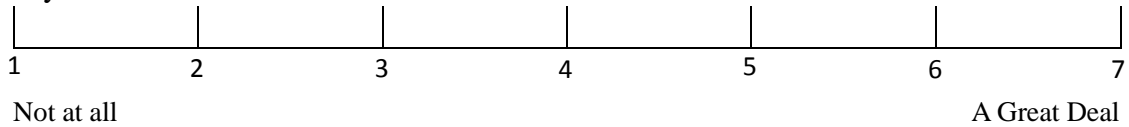
3. Has nausea affected your ability to make a meal or do minor household repairs during the past 3 days?



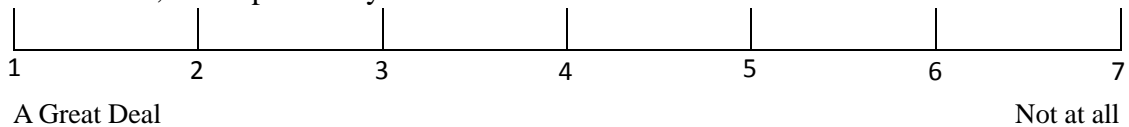
4. How much has nausea affected your ability to enjoy a meal in the past 3 days?



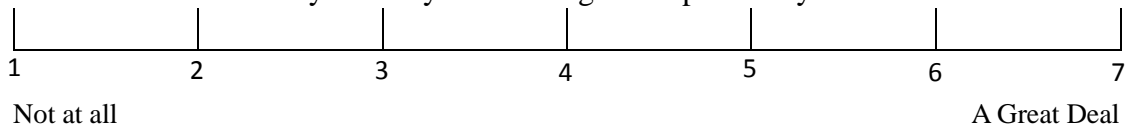
5. How much has nausea affected your ability to enjoy liquid refreshment in the past 3 days?



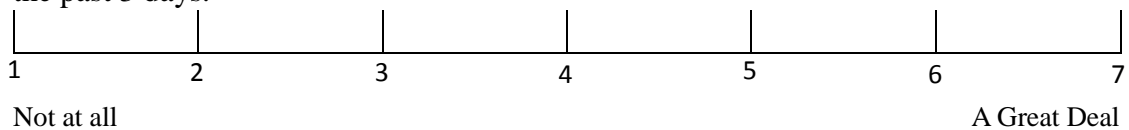
6. How much has nausea affected your willingness to see and spend time with family and friends, in the past 3 days?



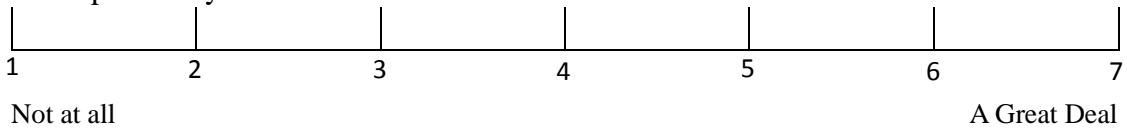
7. Has nausea affected your daily functioning in the past 3 days?



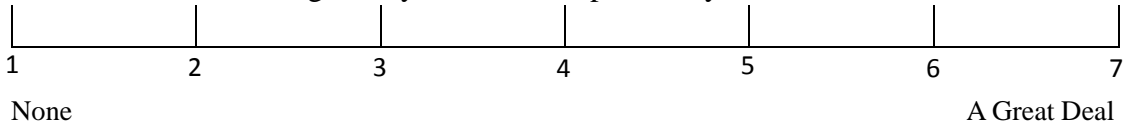
8. Rate the degree to which your nausea has imposed a hardship on you (personally) in the past 3 days.



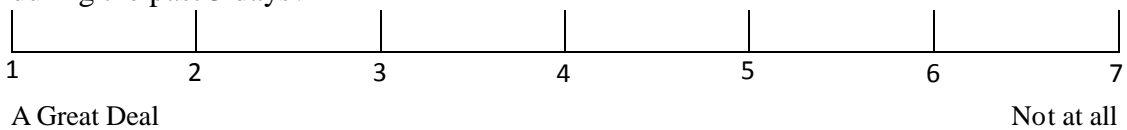
9. Rate the degree to which your nausea has imposed a hardship on those closest to you in the past 3 days.



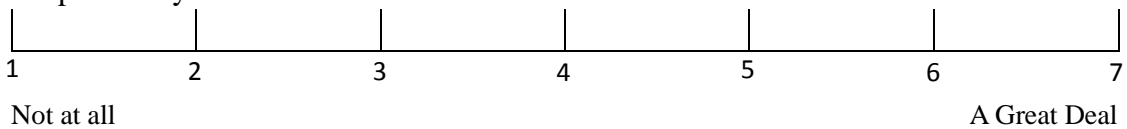
10. How much vomiting have you had in the past 3 days?



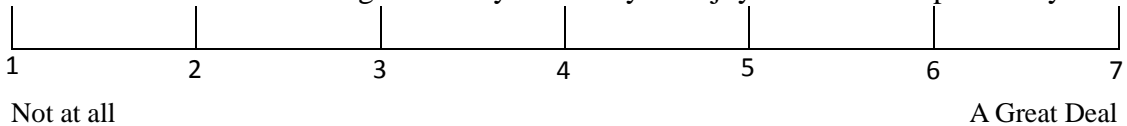
11. Has vomiting affected your ability to maintain usual recreation or leisure activities during the past 3 days?



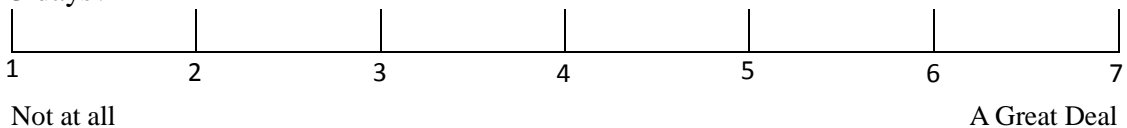
12. Has vomiting affected your ability to complete your usual household tasks during the past 3 days?



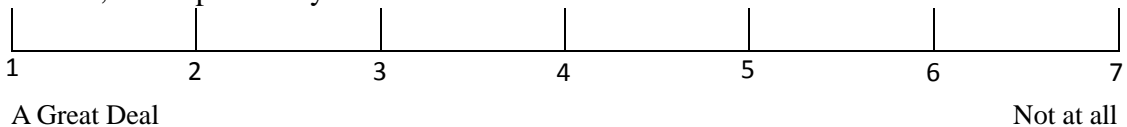
13. How much has vomiting affected your ability to enjoy a meal in the past 3 days?



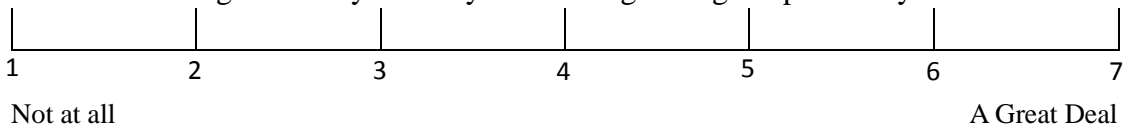
14. How much has vomiting affected your ability to enjoy liquid refreshment in the past 3 days?



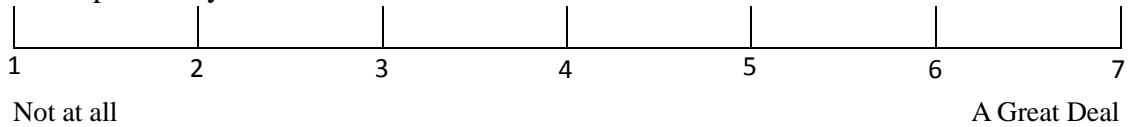
15. How much has vomiting affected your willingness to see and spend time with friends, in the past 3 days?



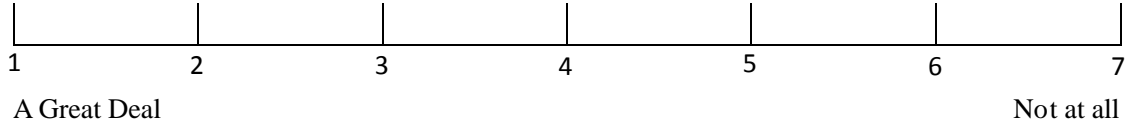
16. Has vomiting affected your daily functioning during the past 3 days?



17. Rate the degree to which your vomiting has imposed a hardship on you (personally) in the past 3 days.



18. Rate the degree to which your vomiting has imposed a hardship on those closest to you in the past 3 days.



### References:

- 1 Bach CM, Nogler M, Steingruber IE, *et al.* Scoring Systems in Total Knee Arthroplasty. 2002;:184–96.
- 2 HAMILTON M. The assessment of anxiety states by rating. *Br J Med Psychol* 1959;**32**:50–5.<http://www.ncbi.nlm.nih.gov/pubmed/13638508>
- 3 Lindley CM, Hirsch JD, O’Neill C V., *et al.* Quality of life consequences of emesis. *Qual Life Res* 1992;**1**:331–40.