

# APPENDIX B – BERLIN QUESTIONNAIRE

## BERLIN QUESTIONNAIRE

Height (m) \_\_\_\_\_ Weight (kg) \_\_\_\_\_ Age \_\_\_\_\_ Male/Female\* Occupation \_\_\_\_\_

Please choose the correct response to each question.

### CATEGORY 1

#### 1. Do you snore?

- ☐ a. Yes
- ☐ b. No
- ☐ c. Don't know

*If you snore:*

#### 2. Your snoring is:

- ☐ a. Slightly louder than breathing
- ☐ b. As loud as talking
- ☐ c. Louder than talking
- ☐ d. Very loud – can be heard in adjacent rooms

#### 3. How often do you snore

- ☐ a. Nearly every day
- ☐ b. 3-4 times a week
- ☐ c. 1-2 times a week
- ☐ d. 1-2 times a month
- ☐ e. Never or nearly never

#### 4. Has your snoring ever bothered other people?

- ☐ a. Yes
- ☐ b. No
- ☐ c. Don't Know

#### 5. Has anyone noticed that you stop breathing during your sleep?

- ☐ a. Nearly every day
- ☐ b. 3-4 times a week
- ☐ c. 1-2 times a week
- ☐ d. 1-2 times a month
- ☐ e. Never or nearly never

### CATEGORY 2

#### 6. How often do you feel tired or fatigued after your sleep?

- ☐ a. Nearly every day
- ☐ b. 3-4 times a week
- ☐ c. 1-2 times a week
- ☐ d. 1-2 times a month
- ☐ e. Never or nearly never

#### 7. During your waking time, do you feel tired, fatigued or not up to par?

- ☐ a. Nearly every day
- ☐ b. 3-4 times a week
- ☐ c. 1-2 times a week
- ☐ d. 1-2 times a month
- ☐ e. Never or nearly never

#### 8. Have you ever nodded off or fallen asleep while driving a vehicle?

- ☐ a. Yes
- ☐ b. No

*If yes:*

#### 9. How often does this occur?

- ☐ a. Nearly every day
- ☐ b. 3-4 times a week
- ☐ c. 1-2 times a week
- ☐ d. 1-2 times a month
- ☐ e. Never or nearly never

### CATEGORY 3

#### 10. Do you have high blood pressure?

- ☐ Yes
- ☐ No
- ☐ Don't know

## Berlin Questionnaire (for sleep apnoea)

### Scoring the Berlin questionnaire:

The questionnaire consists of 3 categories related to the risk of having sleep apnea. Patients can be classified into High Risk or Low Risk based on their responses to the individual items and their overall scores in the symptom categories.

#### Categories and scoring:

Category 1: items 1, 2, 3, 4, 5.

Item 1: if 'Yes', assign 1 point

Item 2: if 'c' or 'd' is the response, assign 1 point

Item 3: if 'a' or 'b' is the response, assign 1 point

Item 4: if 'a' is the response, assign 1 point

Item 5: if 'a' or 'b' is the response, assign 2 points

**Add points. Category 1 is positive if the total score is 2 or more points**

Category 2: items 6, 7, 8 (item 9 should be noted separately).

Item 6: if 'a' or 'b' is the response, assign 1 point

Item 7: if 'a' or 'b' is the response, assign 1 point

Item 8: if 'a' is the response, assign 1 point

**Add points. Category 2 is positive if the total score is 2 or more points**

**Category 3 is positive if the answer to item 10 is 'Yes' OR if the BMI of the patient is greater than 30kg/m<sup>2</sup>.**

(BMI must be calculated. BMI is defined as weight (kg) divided by height (m) squared, i.e., kg/m<sup>2</sup>).

**High Risk:** if there are 2 or more Categories where the score is positive

**Low Risk:** if there is only 1 or no Categories where the score is positive

Additional question: item 9 should be noted separately.

Adapted from: Table 2 from Netzer, et al., 1999. (Netzer NC, Stoohs RA, Netzer CM, Clark K, Strohl KP. Using the Berlin Questionnaire to identify patients at risk for the sleep apnea syndrome. Ann Intern Med. 1999 Oct 5;131(7):485-91).