

BACK TRANSLATION 1

Standardised Tool for the Assessment of Bruxism

STAB

Complete Instrument

English Version

April 2023

Index

Demographic Questionnaires	Page	3
Axis A – Assessment of the state and consequences of Bruxism		4
Subject Based Assessment (SBA) – Self-Report		5
A1. Sleep Bruxism Report		5
A2. Awake Bruxism Report		6
A3. Chief's complaints of the patients		8
Clinically Based Assessment (CBA) – Examiner's Report		11
A4. Joints and Muscles		11
A5. Intraoral and Extraoral Tissues		12
A6. Teeth and Restorations		13
Instrumentally Based Assessment (IBA) – Strumental Assesment		15
A7. Sleep Bruxism		15
A8. Awake Bruxism		16
A9. Additional instruments		17
Axis B – Risk and Etiological Factors and Comorbidities		18
B1. Psychological Evaluation		19
B2. Concurrent Sleep-related Conditions Evaluation		21
B3. Concurrent non-Sleep-related Conditions Evaluation		22
B4. Drug history and use of Sostance Assessment		26
B5. Secondary factors Assessment		28

Standardised Tool for the Assessment of Bruxism

(STAB)

Demographic Questionnaire

Sex

Male

Female

Non Declared/Other

Age

Height

Weight

What is your marital status?

Married

Living as married

Divorced

Separated

Widowed

Never married

Which ethnic group do you belong to? Mark all the necessary options.

Asian

African-American

Caucasian

Other (Specify)

What is the highest degree or level of education you have achieved?

Compulsory schooling (<16 years)

Secondary schools (e.g., high schools) up to 18 years

University, without obtaining the degree

University Graduate

Post-graduate level

**Axis A – Assessment of the state and
consequences of Bruxism**

Subject Based Assessment (SBA) – Self-Report

A1. Sleep Bruxism Report

A1.1 SLEEP BRUXISM QUESTION

How often do you clench or grind your teeth when asleep based on the last month (based on any information you may have)?

None of the time

Less than one night/month

1-3 nights/month

1-3 nights/week

4-7 nights/week

Don't know

A1.1.1 SLEEP BRUXISM HISTORY QUESTION

Did you use to clench or grind your teeth when asleep in the past, based on any information you have?

No

Yes

Don't know

A2. Awake Bruxism Report

A2.1 AWAKE TEETH GRINDING QUESTION

During the last month, how many times do you grind your teeth during the light hours?

None of the time

A little of the time

Some of the time

Most of the time

All of the time

Don't know

A2.1.1 HISTORY OF AWAKE TEETH GRINDING QUESTION

Did you use to grind your teeth during light hours in past?

No

Yes

Don't know

A2.2 AWAKE TEETH CLENCHING QUESTION

During the last month, how many times do you clench your teeth during the light hours?

None of the time
A little of the time
Some of the time
Most of the time
All of the time
Don't know

A2.2.1 HISTORY OF AWAKE TEETH CLENCHING QUESTION

Did you use to clench your teeth during light hours in past?

No
Yes
Don't know

A2.3 AWAKE TEETH CONTACT QUESTION

How often do you press, touch, or hold your teeth together other moments than while eating (contact between upper and lower teeth),based on the last month?

None of the time
A little of the time
Some of the time
Most of the time
All of the time
Don't know

A2.3.1 HISTORY OF AWAKE TEETH CONTACT QUESTION

Did you use to press, touch, or hold your teeth together other moments than while eating (contact between upper and lower teeth) in the past?

No
Yes
Don't know

A2.4 AWAKE MANDIBLE BRACING QUESTION

During the last month, how often do you tighten muscles without touching your teeth ?

None of the time
A little of the time
Some of the time
Most of the time
All of the time
Don't know

A2.4.1 HISTORY OF AWAKE MANDIBLE BRACING QUESTION

Did you use to tighten muscles without touching teeth in the past?

No
Yes

Don't know

A3. Chief's complaints of the patients

TEMPOROMANDIBULAR JOINT DISORDERS (TMD)

A3.1 PAIN IN TMD

In the last 30 days, how long did any pain last in the jaw or in the temple, on both side?

No pain

Pain comes and goes

Pain is always present

A3.2 PAIN OR STIFFNESS ON AWAKENING

In the last 30 days, do you feel any pain or stiffness in the jaw on awakening?

No

Yes

A3.3 CLOSED LOCK

In the last 30 days, have you had your jaw locked, even just for a moment, so you could not open at all the mouth?

No

Yes

A3.4 PAIN'S CHANGES DURING ACTIVITIES

In the last 30 days, did any of these activities produce a change in pain (get better or worse) in the jaw or in the temple?

Chewing hard or tough food

Opening your mouth or moving your jaw forward or to the side

Jawhabits (e.g.,holding teeth together, clenching, grinding, chewing gum)

Other jaw activities such as talking, kissing, or yawning

A3.5 NOISES IN JAW JOINT

In the last 30 days, did you heard any noises coming from the jaw's joint while you are moving the mandible?

No

Yes

A3.6 MUSCLE PAIN DURING AWAKETIME

In the last 30 days, did you feel pain in jaw muscles in any of these moments of the day?

Between waking-up and breakfast
Between breakfast and lunch
Between lunch and dinner
Between dinner and bedtime

A3.6.1 MUSCLE TIREDNESS OR FATIGUE DURING AWAKETIME

In the last 30 days, did you have jaw muscle stiffness or sensation or tiredness or fatigue during any of the following times of the day?

Between waking-up and breakfast
Between breakfast and lunch
Between lunch and dinner
Between dinner and bedtime

A3.7 AWAKENING SYMPTOMS QUESTION

Are you aware of any of the following symptoms upon waking up?

Tiredness, soreness or tightness in the jaw
Feeling that your teeth are clenched or your mouth is sore
Pain in the temples
Feeling of tension in the jaw joint upon awakening and feeling that you have to move the jaw to relax it
Difficulty in opening your mouth upon waking
Hearing or feeling a click in the jaw joint upon awakening that goes away afterward

HEADACHE

A3.8 Headache

In the last 30 days, have you had headaches involving the temple area as well?

No

Yes

If Yes - how many days?

TOOTH WEAR

A3.9 TOOTH WEAR

Have you ever experienced any of the following symptoms due to tooth wear?

Sensitivity and/or pain: yes/no
Functional problems (difficulty chewing and eating): yes/no
Cosmetic deterioration (impaired smile aesthetics): yes/no
Damage to dental hard tissue and restorations: yes/no
Impaired phonetics: yes/no

TINNITUS

A3.10 Tinnitus

Do you hear noises or ringing in your ears (tinnitus)?

No
Yes

XEROSTOMIA E DROOLING

A3.11 XEROSTOMIA

Does your mouth feel dry?

Never

Occasionally

Often

A3.12 DROOLING

Have you ever had loss of saliva at night?

I've never had any drooling at night

My pillow sometimes gets wet during the night

My pillow gets wet regularly during the night

My pillow always gets wet during the night

My pillow and other sheets get wet every night

Clinically Based Assessment (CBA) – Examiner's Report (FOR EXAMINER'S USE)

A4. Joints and Muscles

A4.1 TMD DIAGNOSES

Mark the presence of the following diagnoses

A4.1.1. PAIN DISORDERS*

* Please answer this section only if the questions in section A3.3 (TMD Pain Screener) have been answered positively by the patient

Myalgia

Widespread myofascial pain

Radiating myofascial pain

Right arthralgia

Left arthralgia

Headache attributed to TMD

A4.1.2. RIGHT TMJ DISORDER *

* Please specify whether the diagnosis is based on clinical or radiological evaluation

Disc dislocation with reduction

Disc dislocation with intermittent locking

Disc displacement without reduction with limited opening

Disk dislocation without reduction without limited opening

Degenerative joint diseases

Subluxation

A4.1.3. LEFT TMJ DISORDER *

* Please specify whether the diagnosis is based on clinical or radiological evaluation

Disc dislocation with reduction

Disc dislocation with intermittent locking

Disc displacement without reduction with limited opening

Disk dislocation without reduction without limited opening

Degenerative joint diseases

Subluxation

A4.2 MASSETER HYPERTROPHIA

Highlight the presence of masseter muscle hypertrophy:

Left

Right

A6. Teeth and Restorations

A6.1 TOOTH WEAR EVALUATION – QUANTIFICATION

Indicate the highest tooth wear score per sextant

	Sextant 1	Sextant 2	Sextant 3	Sextant 4	Sextant 5	Sextant 6
Occlusal / Incisal						
Palatal						

A.6.1.1 TOOTH WEAR QUALIFICATION *

* During quantification, if grade ≥ 2 is found, qualification is required.

Clinical signs indicating the influence of mechanical factors:

Brilliant, flat and shiny facets

Enamel and dentin wear at the same degree

Wear on the occlusal surfaces with characteristics corresponding to the opposing teeth

Fractures of Cusp or restorations

Impression on the cheeks, tongue and/or lips

Non-Carious Cervical Lesions (NCLC) located in the cervical areas of the teeth

Buccal Non-Carious Lesions (NCLC), wider than deep

Compromised Cervical areas of the premolars and canines

Cracks line within the enamel

Torus Mandibulae

A6.2 PERIODONTAL AND DENTAL EXAMINATION

Indicate the number of teeth with the following signs

	Sextant 1	Sextant 2	Sextant 3	Sextant 4	Sextant 5	Sextant 6
Mobility						
Thermal Sensibility						
annoyance / pain on biting						
Fractured teeth						

A6.3 RESTORATIONS

Indicate the number of teeth/implants with the following signs.

	Sextan 1	Sextan 2	Sextan 3	Sextan 4	Sextan 5	Sextan 6
Broken/lost fillings						
Damaged restorations						
Fractured veneers						
Mobile implant						
Fractured implant						
Implant screw loosening						

A6.4 ORAL APPLIANCE EVALUATION (If hard resin splint is used by the patient) Mark the presence of the following signs:

Prevalence of grinding marks (i.e., streaks)	Left	Front	Right
Prevalence of clenching signs (e.g. dots similar to circles)	Left	Front	Right
Combination of grinding and clenching marks	Left	Front	Right
Fractures o perforations	Left	Front	Right



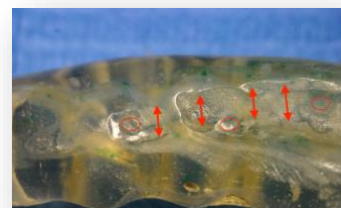
Example of grinding marks

Esempio di segni di digrignamento



Example of clenching marks.

Esempio di segni di serramento dentale



Example of combined marks.

Esempio di segni combinati

Instrumentally Based Assessment (IBA) – Strumental Assessment

A7. Sleep Bruxism

A7.1 ELECTROMYOGRAPHY

Number of masseter events greater than 10% MVC

Bruxism time index (if available)

Bruxism Work Index (if available)

A7.2 POLYSOMNOGRAPHY (Optional)

Number of arousal related to sleep bruxism

Number of arousal not related to sleep bruxism

Bruxism time index (if available)

Bruxism Work Index (if available)

A7.3 OTHER METHODS (Optional)

Smartphone application score for grinding noises

A7.4 APPLIANCE WITH SENSORS (Optional)

Number of pressure events on the bite

A8. Awake Bruxism

A8.1 ECOLOGICAL MOMENTARY ASSESSMENT – One week report

CONDITION	Week 1 (in %)	Other weeks (in %)
relaxed Jaw muscles (and teeth not touching)		
Jaw bracing (no contact between teeth)		
Contact between teeth (light contact in fixed position)		
Dental clenching (strong contact in fixed position)		
Dental grinding		

A8.2 WAKE-TIME ELECTROMYOGRAPHY

Number of masseter events over 10% MVC

Bruxism time index (if available)

Bruxism work index (if available)

A8.3 OTHER METHODS: To be determined

A9. Additional instruments

A9.1. Intraoral Acidity (Optional)

SALIVA PH AT REST

SALIVAR FLOW AT REST

STIMULATED SALIVARY PH (paraffin)

STIMULATED SALIVARY FLOW

Axis B – Risk and Etiological Factors and Comorbidities

B1. Psychological Evaluation – Self Report

B1.1 ANXIETY AND DEPRESSION SCREENING

In the past two weeks, how many times have you been bothered by the following problems?

1. Feeling nervous, anxious or on edge.

Never

Some days

More than half the days

Nearly every day

2. Not being able to stop or control worrying

Never

Some days

More than half the days

Nearly every day

3. Little interest or pleasure in doing things

Never

Some days

More than half the days

Nearly every day

4. Feeling down, depressed, or hopeless

Never

Some days

More than half the days

Nearly every day

B1.2 ADAPTABILITY

Take into consideration how accurately the following statements describe your attitudes and actions

1. I look for creative ways to change difficult situations

*I tend to look for creative ways to deal with difficult situations.**

It doesn't describe me at all

It doesn't describe me

Neutral

It describes me

It describes me very well

2. No matter what happens to me, I believe I can control my reaction

*No matter what happens to me, I am confident that I can control my reaction**

It doesn't describe me at all

It doesn't describe me

Neutral

It describes me

It describes me very well

3. I believe I can grow in a positive way by dealing with difficult situations

*I think I can learn positive things when faced with difficult situations.**

It doesn't describe me at all

It doesn't describe me

Neutral

It describes me

It describes me very well

4. I actively look for ways to replace the losses I have suffered in my life

*I actively look for ways to replace the losses that come my way.**

It doesn't describe me at all

It doesn't describe me

Neutral

It describes me

It describes me perfectly

* <https://www.frontiersin.org/articles/10.3389/fpsyg.2021.641213/full>

B2. Concurrent Sleep-related Conditions Evaluation – Self Report

B2.1 SLEEP APNEA SCREENING

Please mark which of the following questions you would answer positively

Do you snore loudly?

Do you often feel tired, fatigued or sleepy during the day?

Has anyone seen you stop breathing or choking/gasping during sleep?

Do you have or are you being treated for high blood pressure?

Do you have a body mass index greater than 35?

Are you over the age of 50?

Does it have a large neck? (43 cm or greater for men; 41 cm or greater for women)?

Gender=Male?

B2.2 INSOMNIA SCREENING

Please mark which of the following statements apply to you

I have difficulty falling asleep

Thoughts occupy my mind and keep me from sleeping

I foresee a problem with sleep several times a week

Once I wake up, I'm never able to go back to sleep

I worry about things and have trouble relaxing

I wake up in the morning earlier than I would like

I stay awake for half an hour or more before falling asleep

B2.3 PERIODIC MOVEMENT DISORDER AND RESTLESS LEG SYNDROME SCREENING. Please mark which of the following statements apply to you

Other than when I exercise, I still feel muscle tension in my legs.

I have noticed (or had been pointed out by others) that parts of my body jerk during sleep.

I had been told I kick at night.

When I try to fall asleep, I get a aching or tingling sensation to the legs.

At night I have pain and cramps in my legs.

Sometimes I can't keep my legs still at night. I have to move them to feel more comfortable.

Even though I slept through the night, I feel sleepy during the day

B2.4 ORAL BEHAVIOR- POSITION DURING SLEEP

Based on the last month, how often do you sleep in a position that puts pressure on your jaw?

None of the time

A little of the time

Some of the time

Most of the time

All of the time

Don't know

B3. Concurrent non-Sleep-related Conditions Evaluation – Self Report

B3.1 ORAL BEHAVIOR - ACTIVITIES DURING WAKING HOURS

Based on the last month, how often do you do each of the following activities?

Q7. Hold or jut jaw forward or to the side

None of the time

A little of the time

Some of the time

Most of the time

All of the time

Don't know

Q8. Press the tongue firmly against the teeth

None of the time

A little of the time

Some of the time

Most of the time

All of the time

Don't know

Q9. Place your tongue between teeth

None of the time

A little of the time

Some of the time

Most of the time

All of the time

Don't know

Q10. Biting, chewing or playing with your tongue, cheeks or lips

None of the time

A little of the time

Some of the time

Most of the time

All of the time

Don't know

Q11. Keep the jaw in a rigid or tense position, such as to lock or protect it

None of the time

A little of the time

Some of the time

Most of the time

All of the time

Don't know

Q12. Holding between teeth or biting objects such as hair, pipe, pencils, pens, fingers, nails, etc.

None of the time

A little of the time

Some of the time

Most of the time

All of the time

Don't know

Q13. Use chewing gum

None of the time

A little of the time

Some of the time

Most of the time

All of the time

Don't know

Q14. Playing an instrument that involves the use of the mouth or jaw

None of the time

A little of the time

Some of the time

Most of the time

All of the time

Don't know

Q15. Lean with your hand on the jaw, like a cup, to rest your chin on your hand.

None of the time

A little of the time

Some of the time

Most of the time

All of the time

Don't know

Q16. Chewing food on one side only

None of the time

A little of the time

Some of the time

Most of the time

All of the time

Don't know

Q17. Eating between meals

None of the time

A little of the time

Some of the time
Most of the time
All of the time
Don't know

Q18. Sustained Talking (e.g., teaching, selling, customer service)

None of the time
A little of the time
Some of the time
Most of the time
All of the time
Don't know

Q19. Singing

None of the time
A little of the time
Some of the time
Most of the time
All of the time
Don't know

Q20. Yawning

None of the time
A little of the time
Some of the time
Most of the time
All of the time
Don't know

Q21. Hold the phone between your shoulders and head

None of the time
A little of the time
Some of the time
Most of the time
All of the time
Don't know

B3.2 SMARTPHONE USE (Optional Item)

Indicate the daily average usage of your telephone

B3.3 OROFACIAL MOTOR DISORDERS

Have you been diagnosed with, or do you suffer from possible signs of any of the following conditions?

Orofacial dyskinesia
Oromandibular dystonia

Parkinson's disease
Huntington's disease
Tourette's syndrome
Hemifacial spasms
Tardive dyskinesia

B3.4 GASTROESOPHAGEAL REFLUX DISEASE SCREENING

How many times a week do you experience each of the following symptoms?

A. Burning sensation behind the breastbone (heartburn)

0 days
1 day
2-3 days
4-7 days

B. Stomach contents back up into the throat or mouth (regurgitation)

0 days
1 day
2-3 days
4-7 days

C. Pain in the middle or upper stomach area

0 days
1 day
2-3 days
4-7 days

D. Nausea

0 days
1 day
2-3 days
4-7 days

E. Trouble getting a good sleep due to heartburn or regurgitation

0 days
1 day
2-3 days
4-7 days

F. Need for over-the-counter medication for heartburn or regurgitation

0 days
1 day
2-3 days
4-7 days

B3.5 AUTOIMMUNE OR CONNECTIVE TISSUE DISORDERS SCREENING

Have you been diagnosed with any of the following conditions?

Rheumatoid arthritis
Lupus
Other systemic rheumatic diseases, including fibromyalgia

Other systemic conditions, including multiple sclerosis, polymyalgia rheumatica, mixed connective diseases

B3.6 ATTENTION DEFICIT HYPERACTIVITY DISORDER

Have you been diagnosed with attention deficit hyperactivity disorder?

No

Yes

B4. Drug history and use of Substance Assessment – Self Report

B4.1 DRUGS

Signs if you use recreational or street drugs

If yes, please mark which drug you used _____

B4.2 MEDICATIONS

Are you currently taking any of the following medicines?

Antidepressants (e.g., selective serotonin reuptake inhibitors)

Benzodiazepines

Neuroleptics, Antipsychotics, Antiemetics (dopamine antagonists)

ADHD medications

Antiallergic drugs

CBD medical marijuana

Medical marijuana TSH

Opioids

Others

If yes, please indicate all drugs and their dosages

B4.3 TOBACCO

Do you smoke or use any tobacco products?

No

Yes

I quit

If yes, how many cigarettes do you smoke per day? N° _____

B4.4 ALCOHOL

Do you drink alcoholic beverages? (beer, wine, spirits)?

No

Yes

I quit

If yes, what is your approximate use of these alcoholic beverages (glasses per day)? _____

B4.5 SOFT DRINK

Do you regularly drink carbonated drinks? (e.g., Cola – Red Bull – Sprite – Fanta)?

No

Yes

I quit

If yes, what is your approximate use of these soft drink (glasses per day)? _____

B4.6 JUICES AND FRUITS

Do you regularly drink juice or eat fruit containing citric acid (e.g., lemon, orange, grapefruit, grape juice)?

No

Yes

I quit

If yes, what is your approximate use of these drink (glasses per day)? _____

B4.7 CAFFEINATE

Do you regularly drink coffee, tea, or other caffeinated beverages?

No

Yes

I quit

If yes, what is your approximate use of these drink (cup per day)?? _____

B5. Secondary factors Assessment

B5.1 FAMILY BRUXISM SCREENING

Do you know of anyone in your family (eg father, mother, children) who has had a history of bruxism?

No

Yes Father/Mother/Son/Daughter/Grandfather/Grandmother

Don't know

B5.2 FAMILY DENTAL WEAR SCREENING

Do you know anyone in your family (e.g. father, mother, children) who suffers from tooth wear?

No

Yes Father/Mother/Son/Daughter/Grandfather/Grandmother

Don't know

B5.3 FAMILY OSA SCREENING

Do you know anyone in your family (e.g. father, mother, children) who suffers from sleep apnea?

No

Yes Father/Mother/Son/Daughter/Grandfather/Grandmother

Don't know

B5.4 FAMILY OROFACIAL PAIN SCREENING

Do you know anyone in your family (e.g. father, mother, children) who suffers from non-dental facial pain?

No

Yes Father/Mother/Son/Daughter/Grandfather/Grandmother

Don't know

B5.5 FAMILY SCREENING FOR GASTROESOPHAGEAL REFLUX DISEASE

Do you know anyone in your family (e.g. father, mother, children) with gastroesophageal reflux disease?

No

Yes Father/Mother/Son/Daughter/Grandfather/Grandmother

Don't know