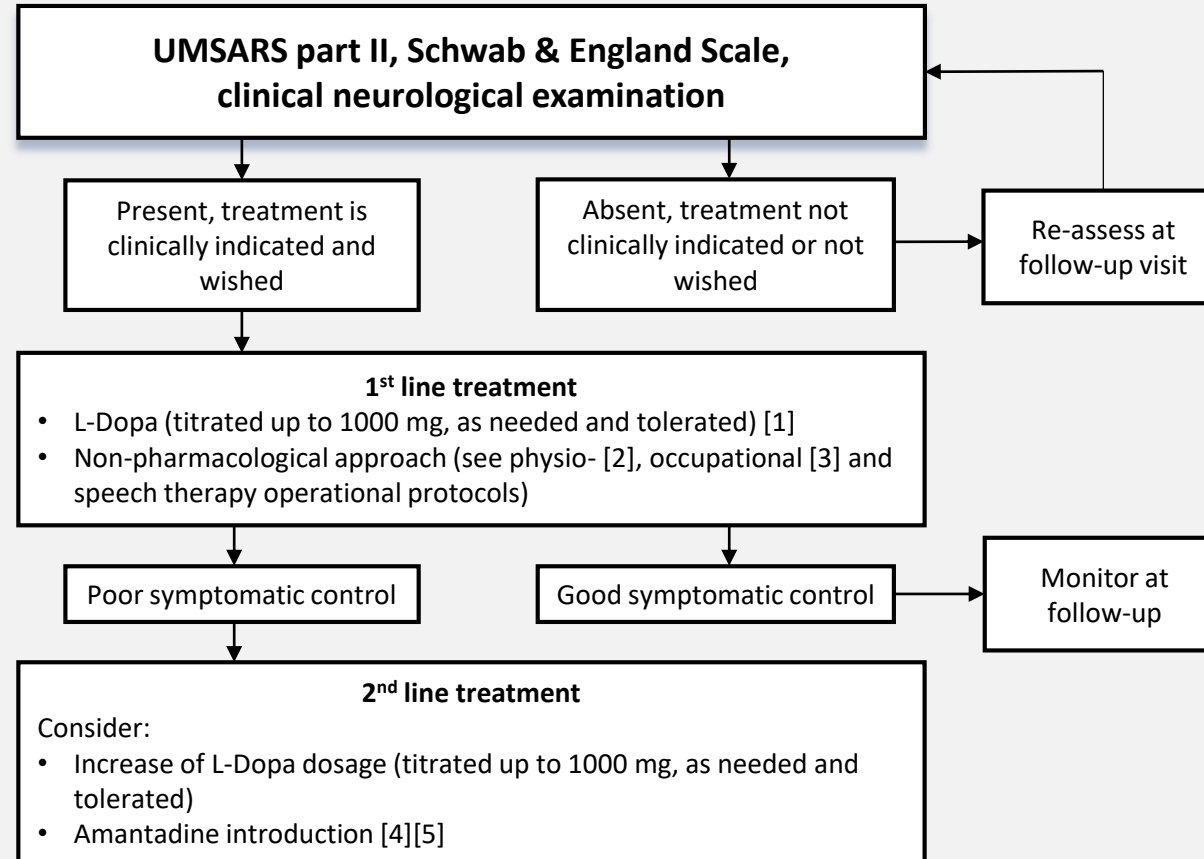


Parkinsonism



UMSARS: Unified Multiple System Atrophy Rating Assessment

[1] <https://movementdisorders.onlinelibrary.wiley.com/doi/epdf/10.1002/mds.27701>

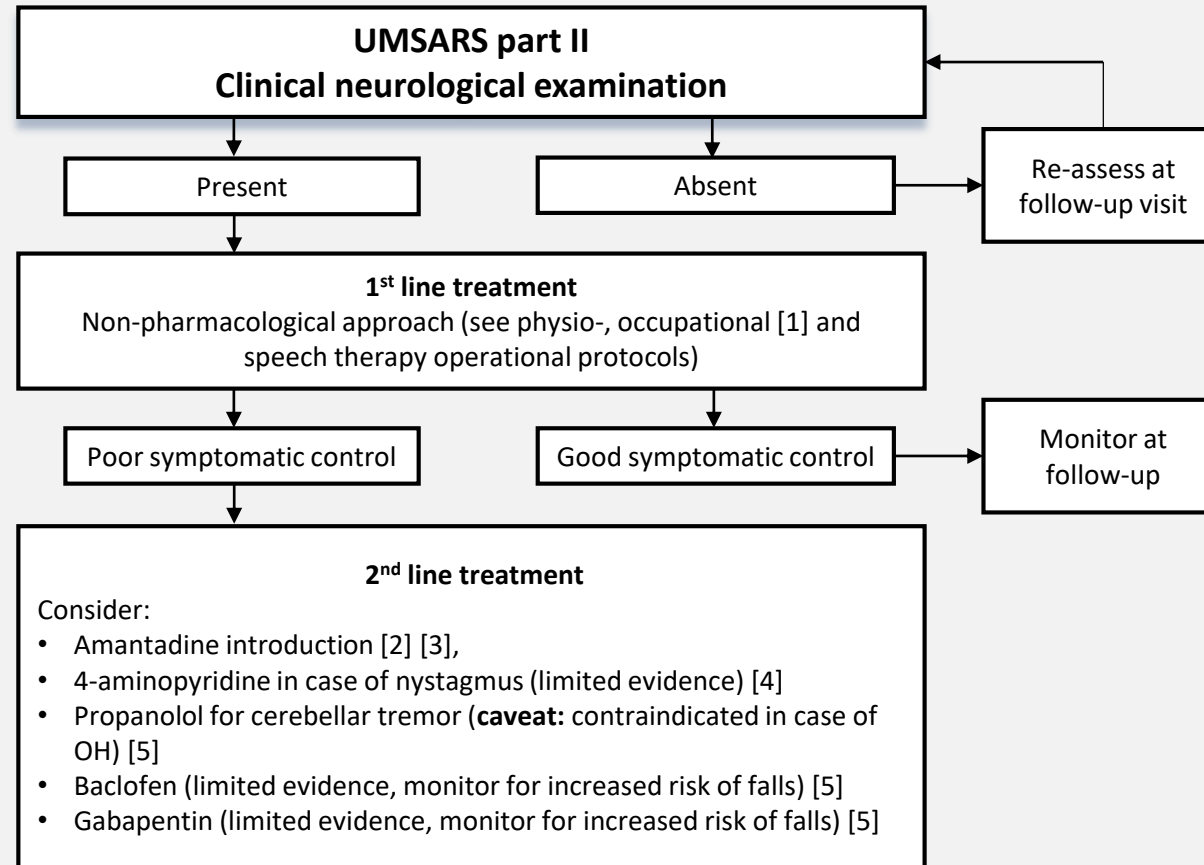
[2] <https://pubmed.ncbi.nlm.nih.gov/31621609/>

[3] <https://movementdisorders.onlinelibrary.wiley.com/doi/10.1002/mds.20211>

[4] https://journals.lww.com/clinicalneuropharm/Abstract/2005/09000/Placebo_Controlled_Trial_of_Amantadine_in.4.aspx

[5] <https://www.sciencedirect.com/science/article/abs/pii/S1353802097000229?via%3Dihub>

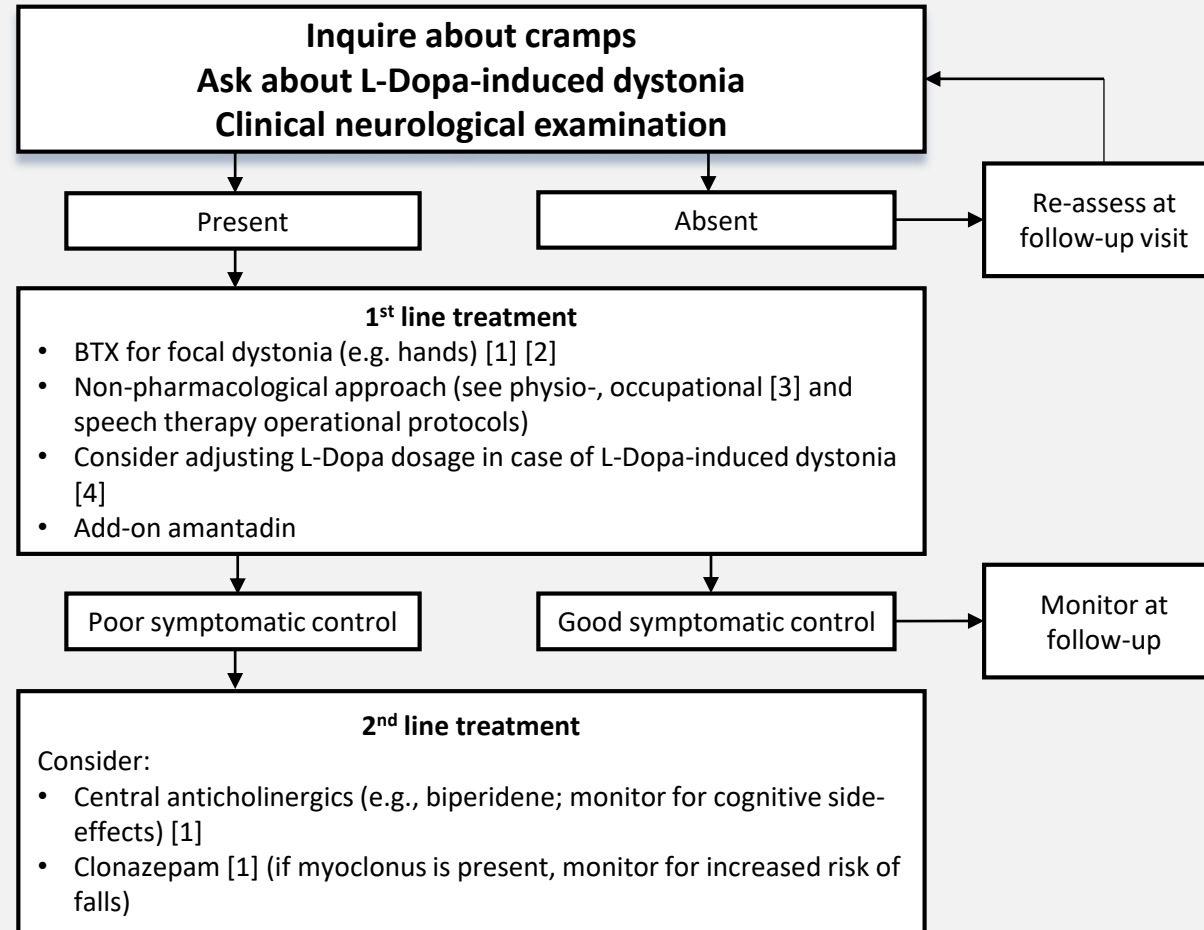
Cerebellar ataxia



UMSARS: Unified Multiple System Atrophy Rating Assessment; OH: Orthostatic Hypotension.

- [1] <https://movementdisorders.onlinelibrary.wiley.com/doi/10.1002/mds.20211>
- [2] https://journals.lww.com/clinicalneuropharm/Abstract/2005/09000/Placebo_Controlled_Trial_of_Amantadine_in.4.aspx
- [3] <https://www.sciencedirect.com/science/article/abs/pii/S1353802097000229?via%3Dihub>
- [4] <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4344126/>
- [5] <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3002658/#bibr160-1756285610375328>

Dystonia



BTX: Botulinum toxin.

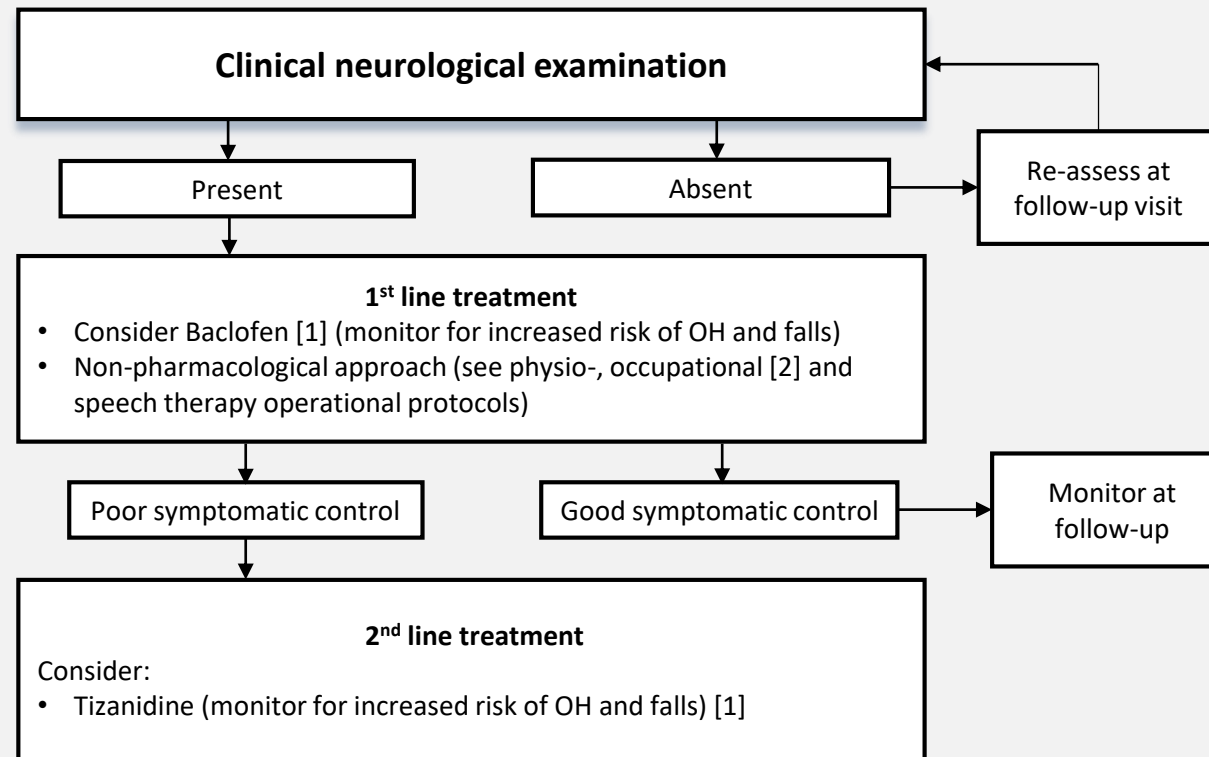
[1] <https://www.sciencedirect.com/science/article/pii/S1474442206705749?via%3Dihub>

[2] <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7969540/>

[3] <https://movementdisorders.onlinelibrary.wiley.com/doi/10.1002/mds.20211>

[4] <https://jnnp.bmj.com/content/72/3/300>

Spasticity

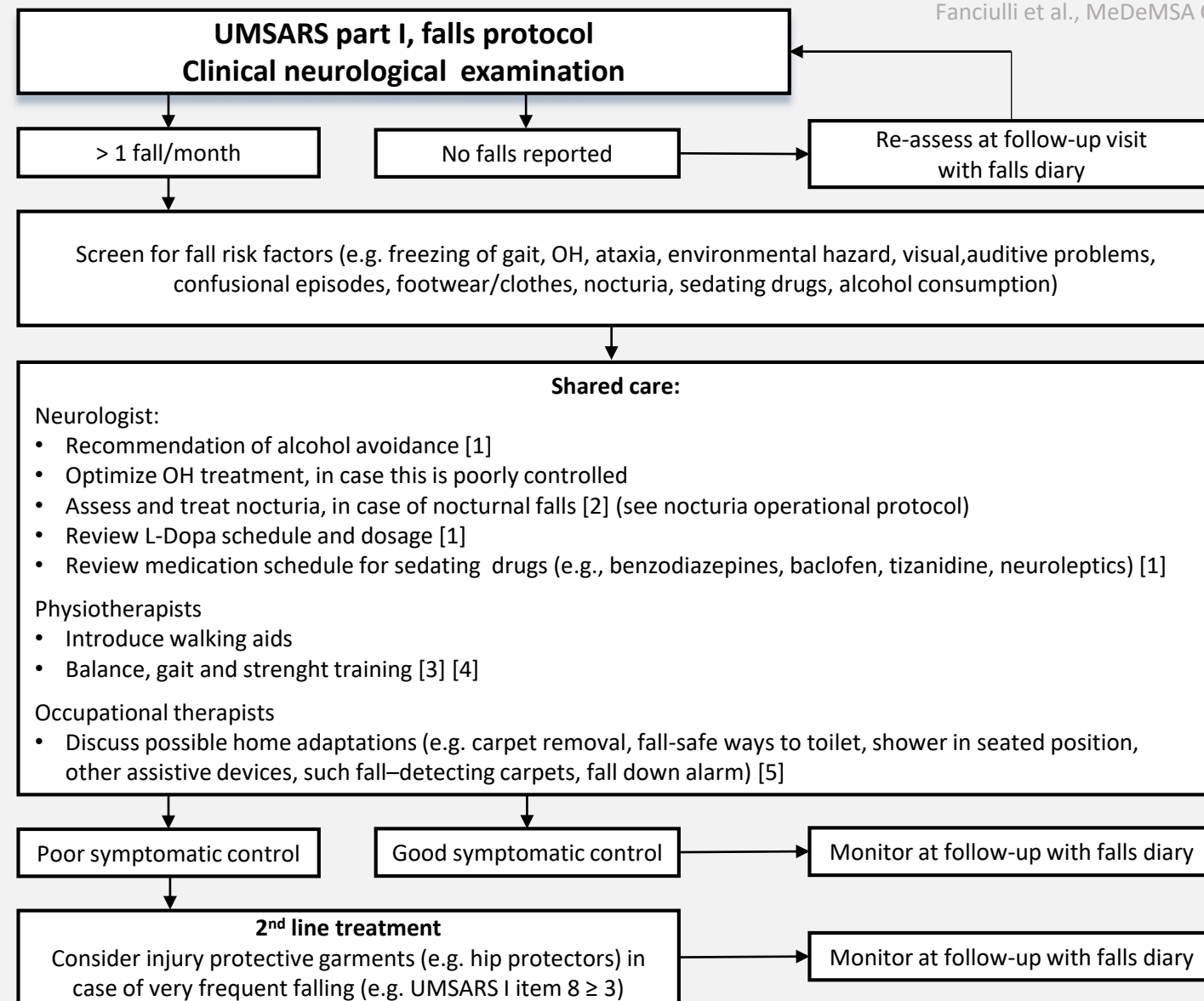


OH: Orthostatic Hypotension.

[1] <https://pn.bmj.com/content/12/5/289.long>

[2] <https://movementdisorders.onlinelibrary.wiley.com/doi/10.1002/mds.20211>

Recurrent falls



OH: Orthostatic Hypotension.

UMSARS: Unified Multiple System Atrophy Rating Assessment.

[1] <https://www.sciencedirect.com/science/article/pii/S1353802013004471?via%3Dihub>

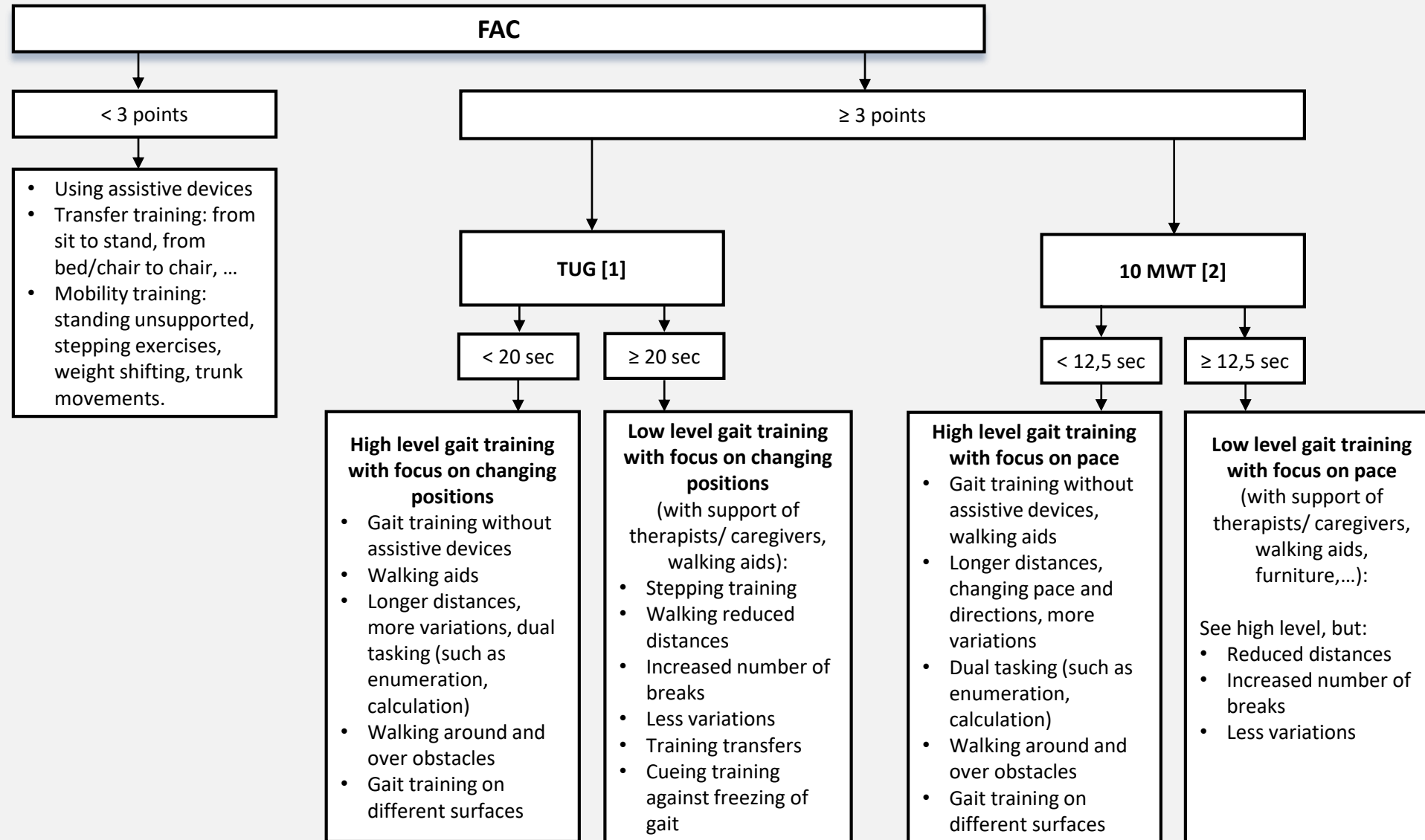
[2] <https://www.cambridge.org/core/journals/canadian-journal-of-neurological-sciences/article/falls-in-synucleinopathies/1C3F91AB55AB37D8AB61CFF9E2B6E4E4>

[3] https://journals.sagepub.com/doi/10.1177/1545968314565511?url_ver=Z39.88-2003&rfr_id=ori:rid:crossref.org&rfr_dat=cr_pub%20%200pubmed

[4] <https://pubmed.ncbi.nlm.nih.gov/31621609/>

[5] https://journals.sagepub.com/doi/10.1177/0898264308324672?url_ver=Z39.88-2003&rfr_id=ori:rid:crossref.org&rfr_dat=cr_pub%20%200pubmed

Gait impairment: physiotherapeutic approach

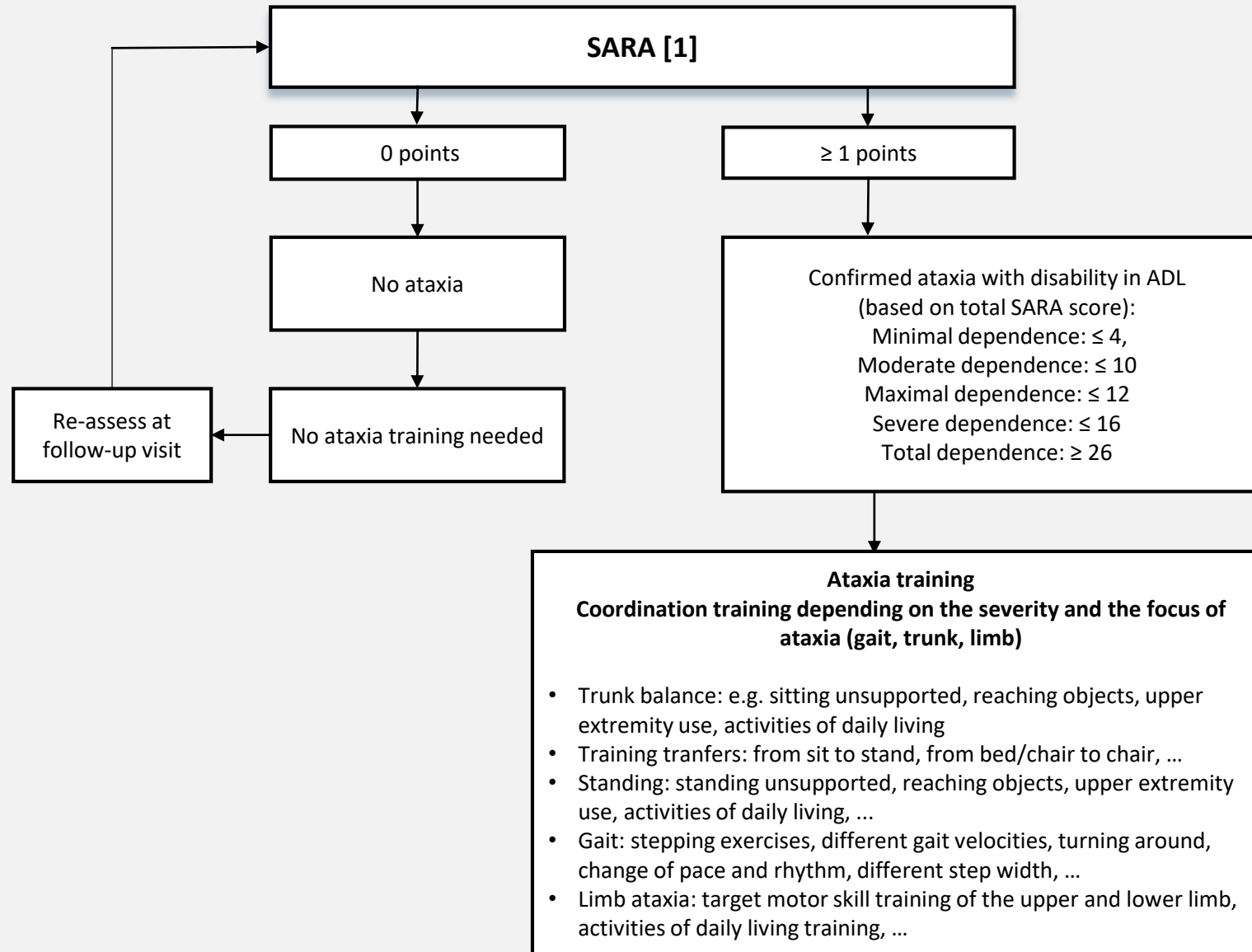


FAC: Functional Ambulation Categories; TUG: Time Up-and-Go; 10 MWT: 10 meters walking test.

[1] <https://medicaljournalssweden.se/jrm/article/view/10427>

[2] https://journals.lww.com/jgpt/Fulltext/2016/10000/Test_Retest_Reliability_and_Minimal_Detectable.3.aspx

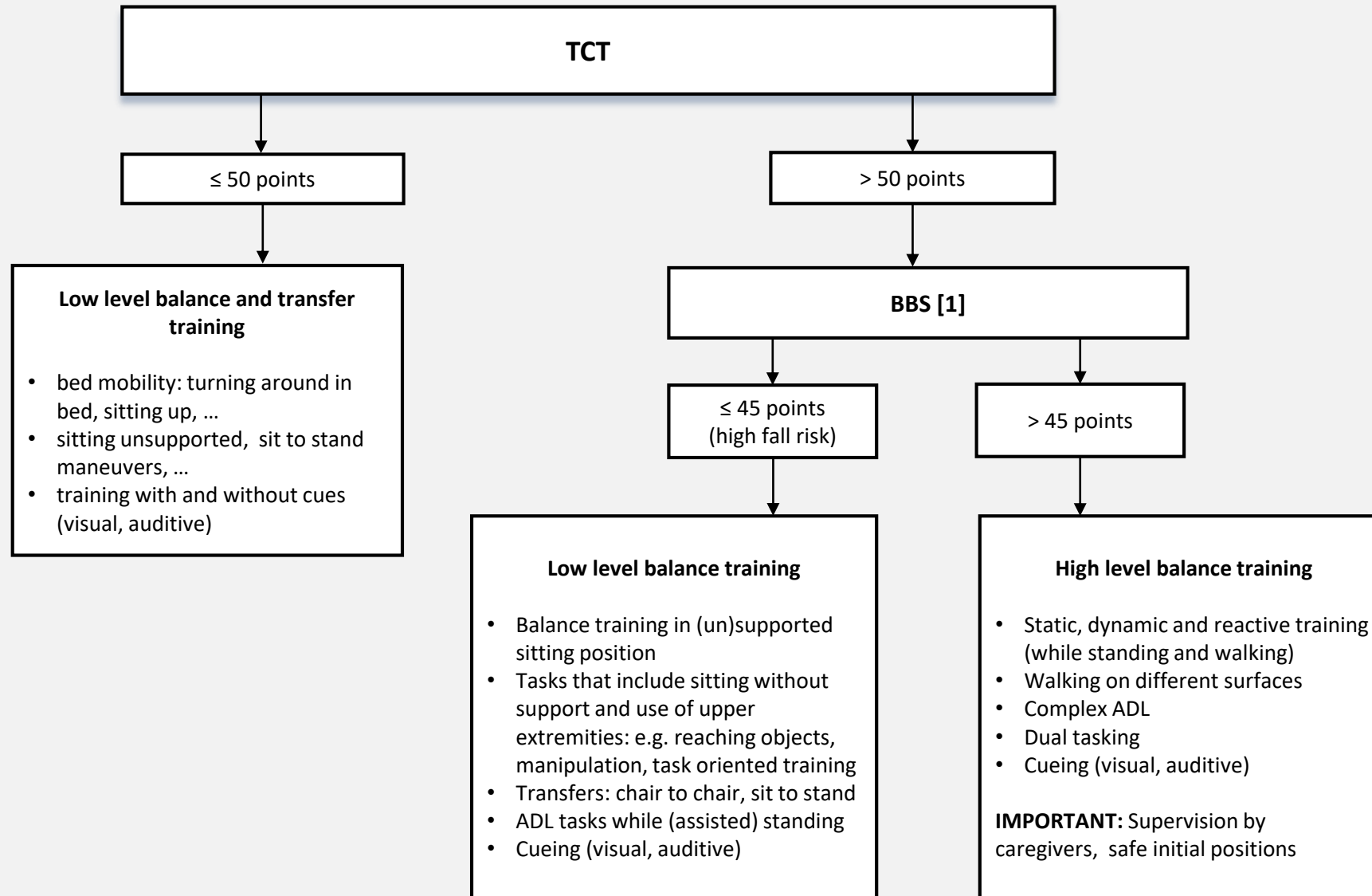
Cerebellar ataxia: physiotherapeutic approach



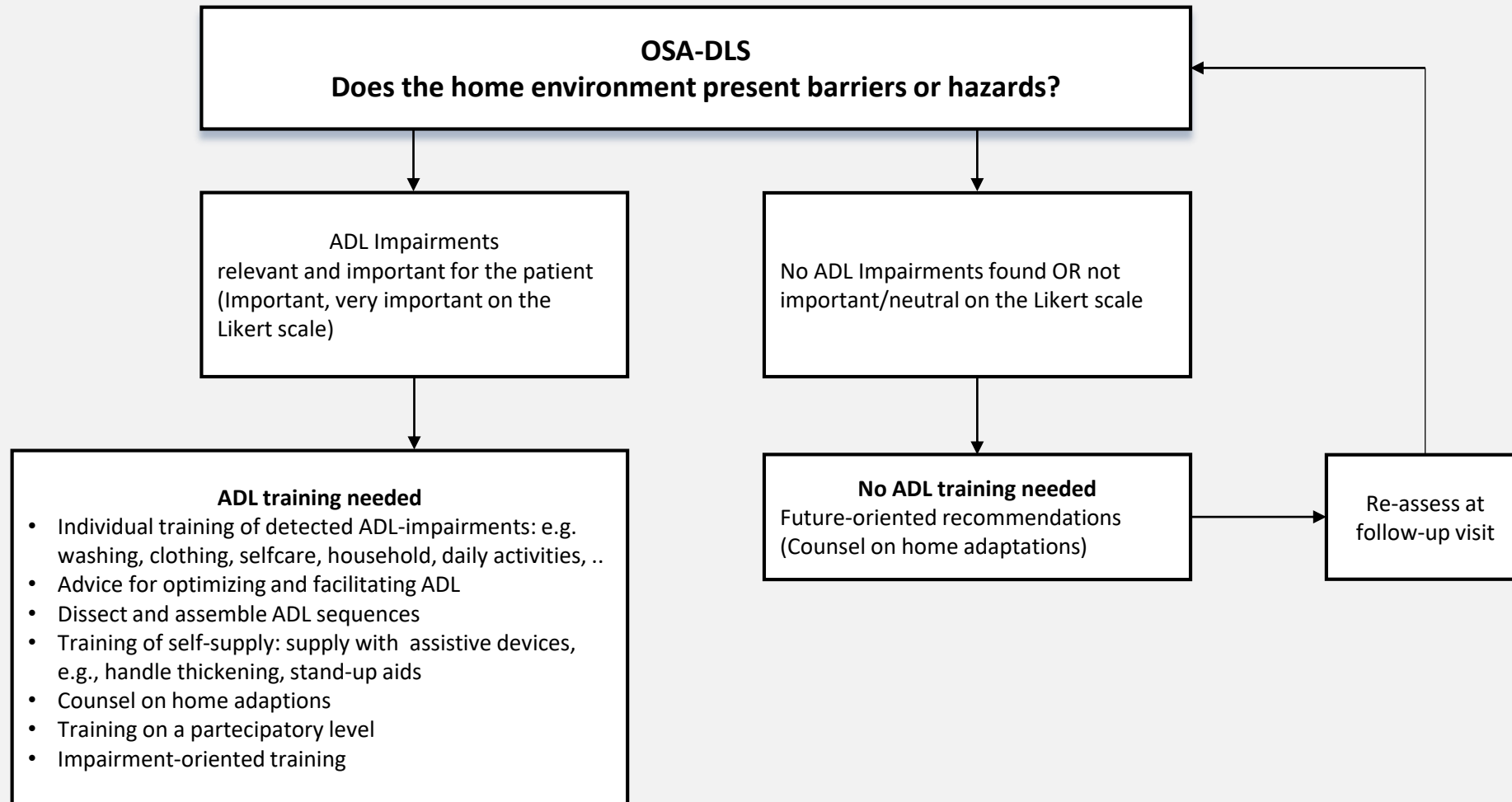
SARA: Scale of the Assessment and Rating of Ataxia.

[1] <https://pubmed.ncbi.nlm.nih.gov/16769946/>

Balance impairment: physiotherapeutic approach



Activities of daily living: occupational therapy approach

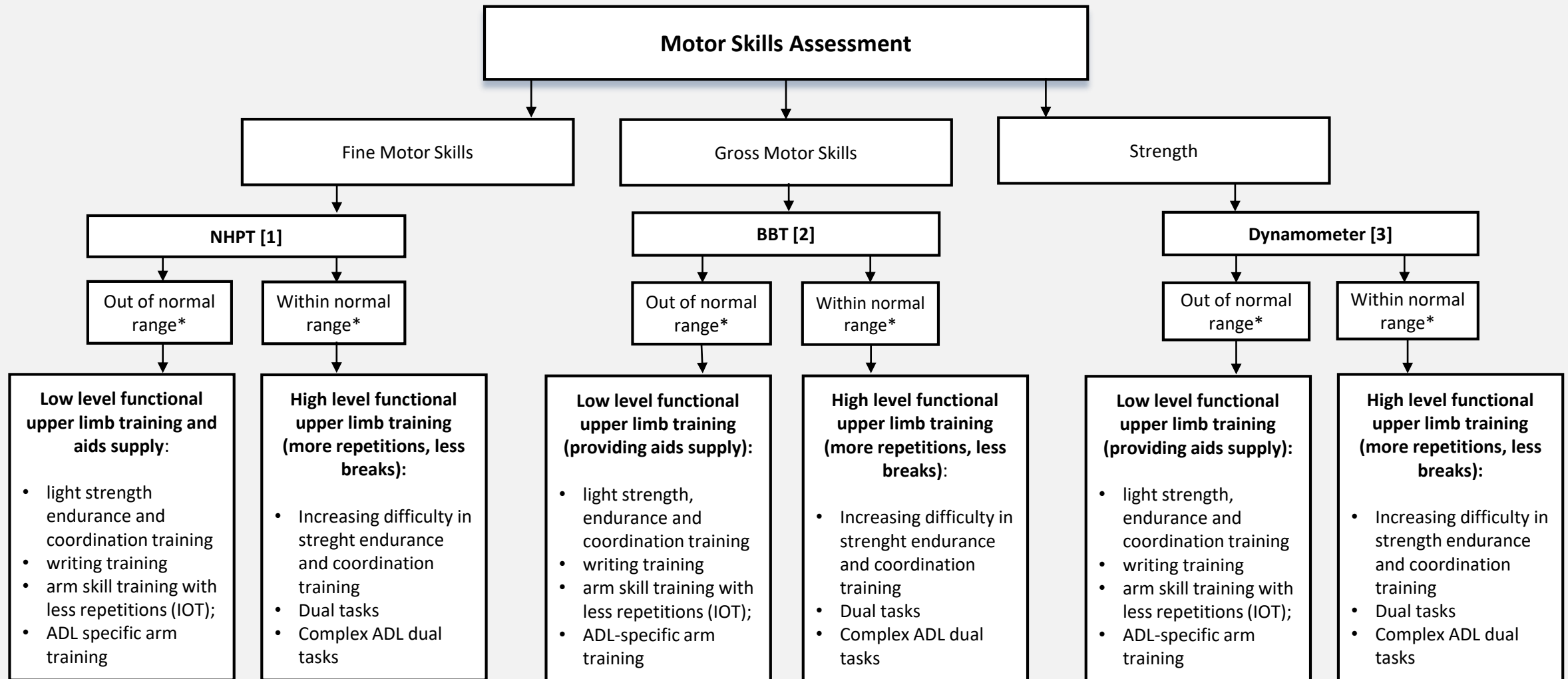


OSA-DLS: Occupational Self Assessment- Daily Living Scale.

<https://research.aota.org/ajot/article-abstract>

[Psychometric testing of the Icelandic Occupational Self-Assessment \(OSA-IS\)](#)

Motor Skills: occupational therapy approach



BBT: Box and Block Test; NHPT: Nine Hole Peg Test; IOT: impairment-oriented training.

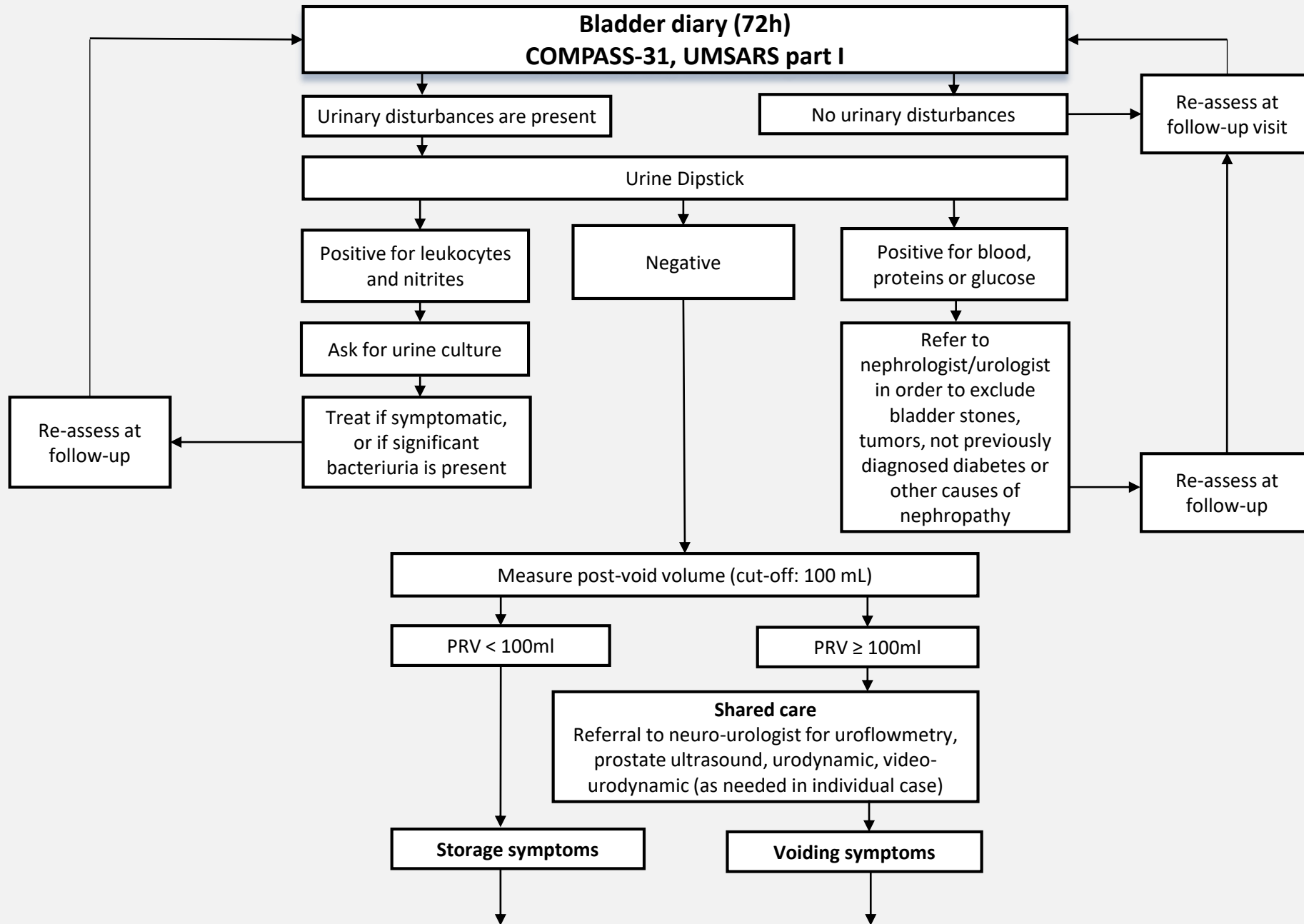
*: According to the standard value lists broken down by age, gender, handedness and left or right side – see detailed description in Schädler, S et al. (2020): Assessments in der Rehabilitation. Band 1 Neurologie (4. Aufl.). Bern: Huber.

[1] [Exploring the ability of strength and dexterity tests to detect hand function impairment in individuals with Parkinson's disease - PubMed \(nih.gov\)](#).

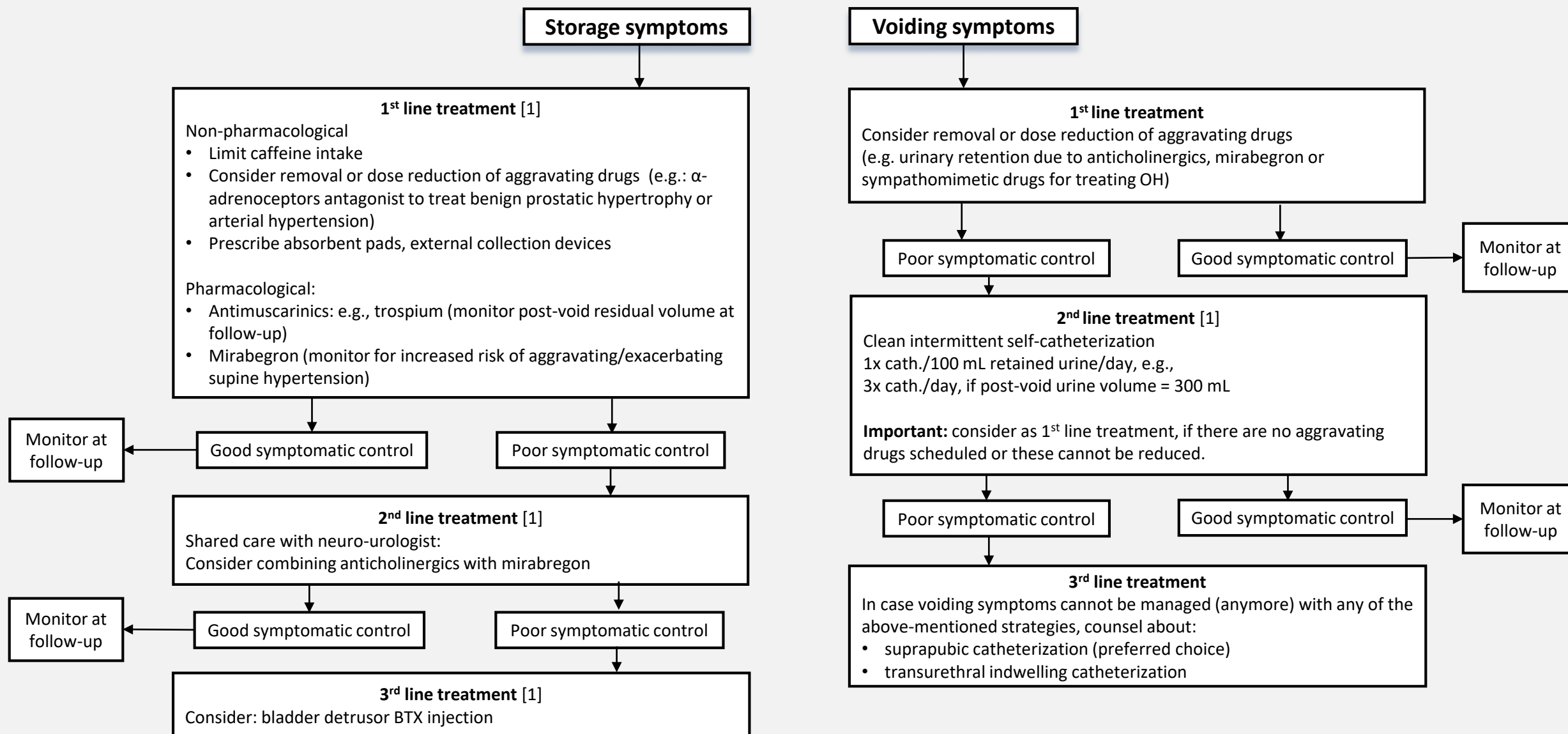
[2] [Assessment of Manual Dexterity in VR: Towards a Fully Automated Version of the Box and Blocks Test - PubMed \(nih.gov\)](#)

[3] [Grip Work Measurement with the Jamar Dynamometer: Validation of a Simple Equation for Clinical Use - PubMed \(nih.gov\)](#)

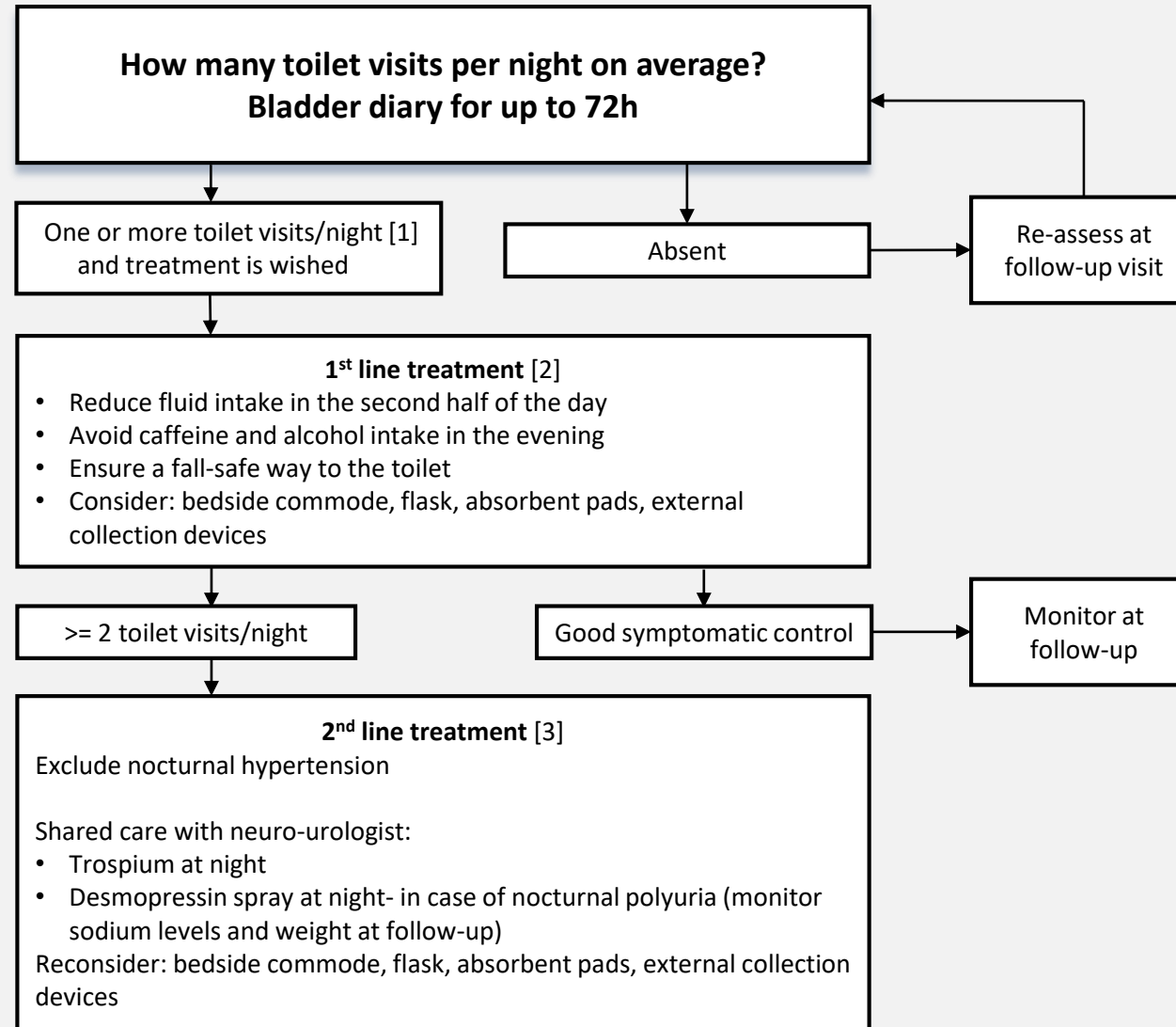
Urinary disturbances 1/2



Urinary disturbances 2/2



Nocturia

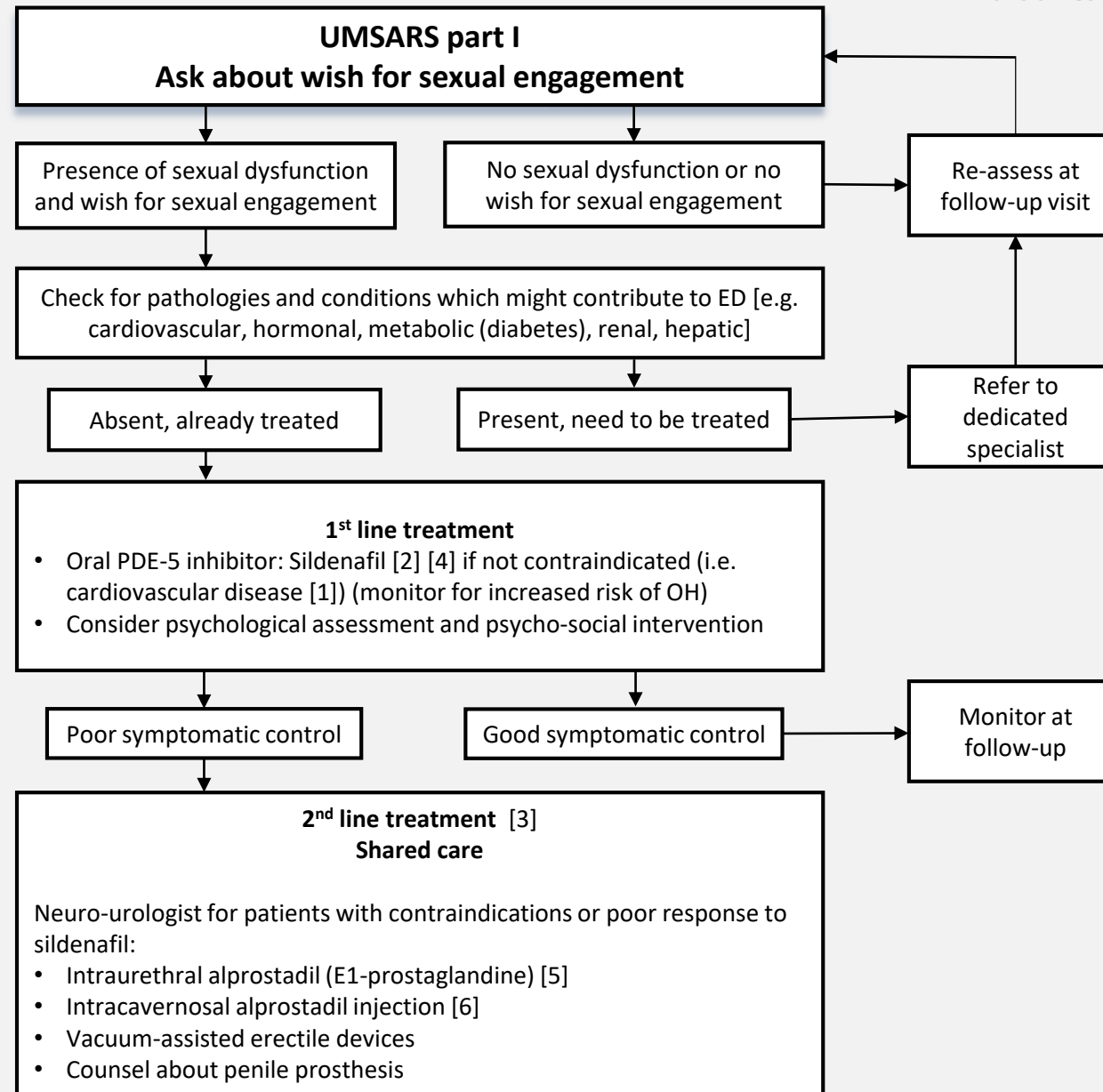


[1] <https://onlinelibrary.wiley.com/doi/10.1002/nau.10053>

[2] <https://www.sciencedirect.com/science/article/pii/S0302283818300022?via%3Dihub>

[3] <https://d56bochluxqnz.cloudfront.net/documents/full-guideline/EAU-Guidelines-on-Neuro-Urology-2023.pdf>

Male erectile dysfunction



ED: Erectile Dysfunction.

OH: Orthostatic Hypotension.

UMSARS: Unified Multiple System Atrophy Rating Assessment.

[1] <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3498391/>

[2] <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1737541/>

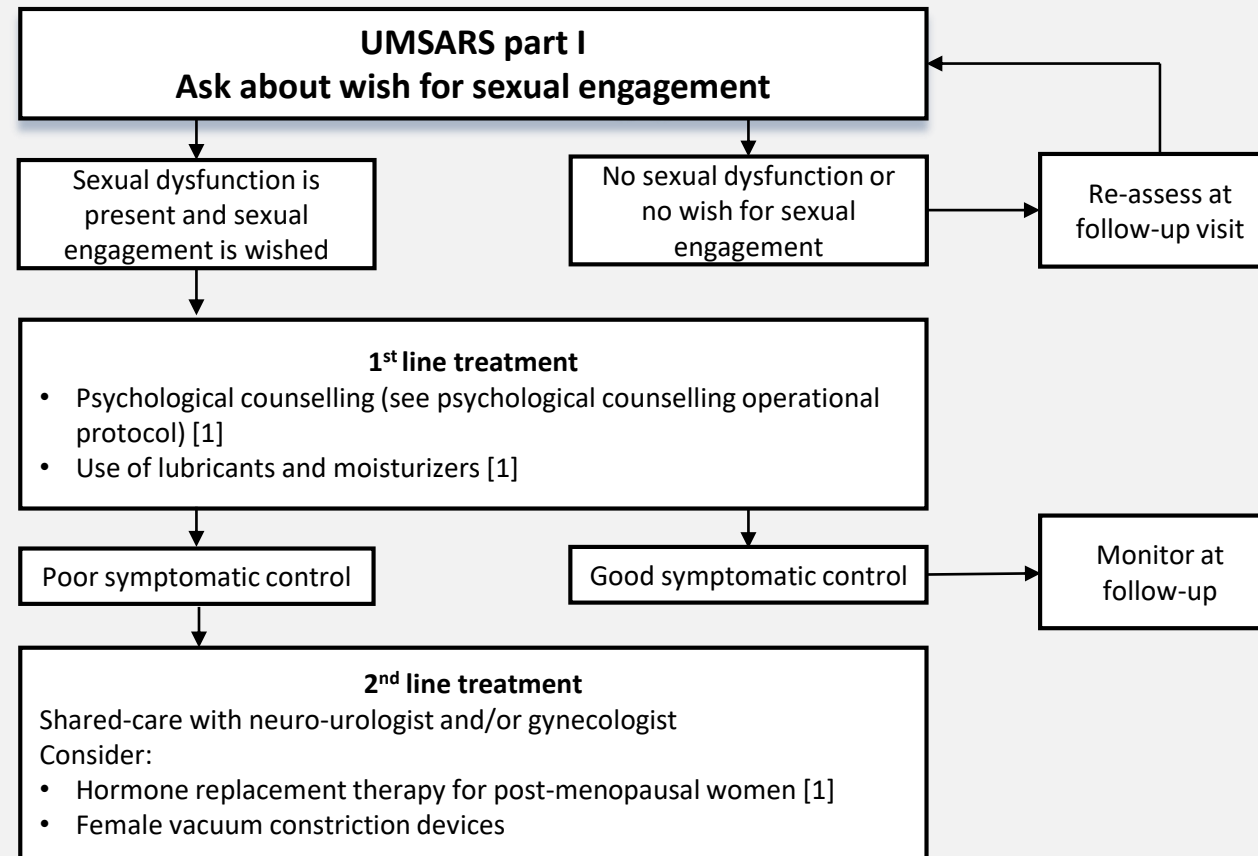
[3] <https://www.auajournals.org/doi/10.1016/j.juro.2018.05.004>

[4] <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1737541/>

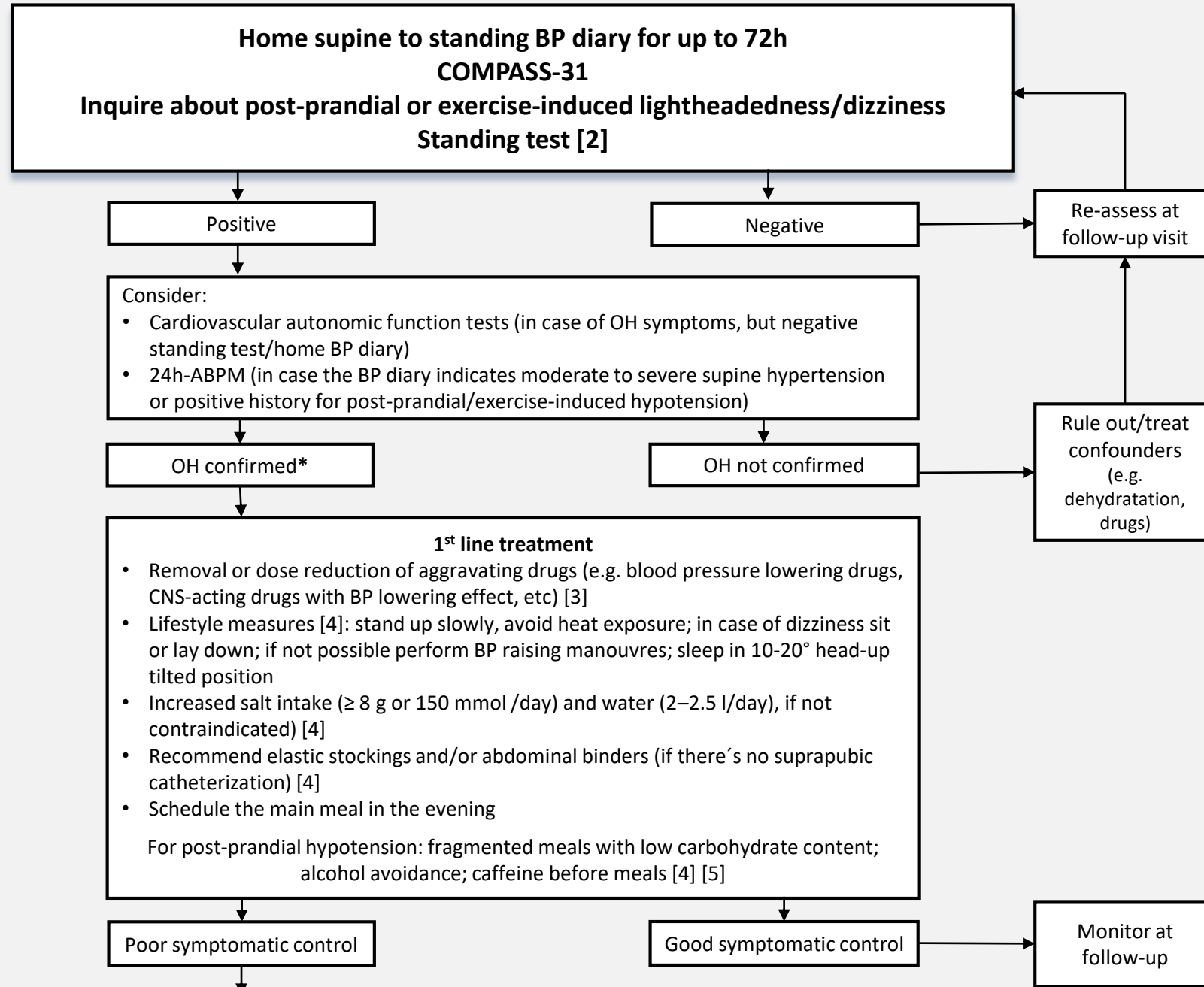
[5] <https://bjui-journals.onlinelibrary.wiley.com/doi/full/10.1046/j.1464-410x.2000.00723.x>

[6] https://www.nejm.org/doi/10.1056/NEJM199604043341401?url_ver=Z39.88-2003&rfr_id=ori:rid:crossref.org&rfr_dat=cr_pub%20%200www.ncbi.nlm.nih.gov

Female sexual dysfunction

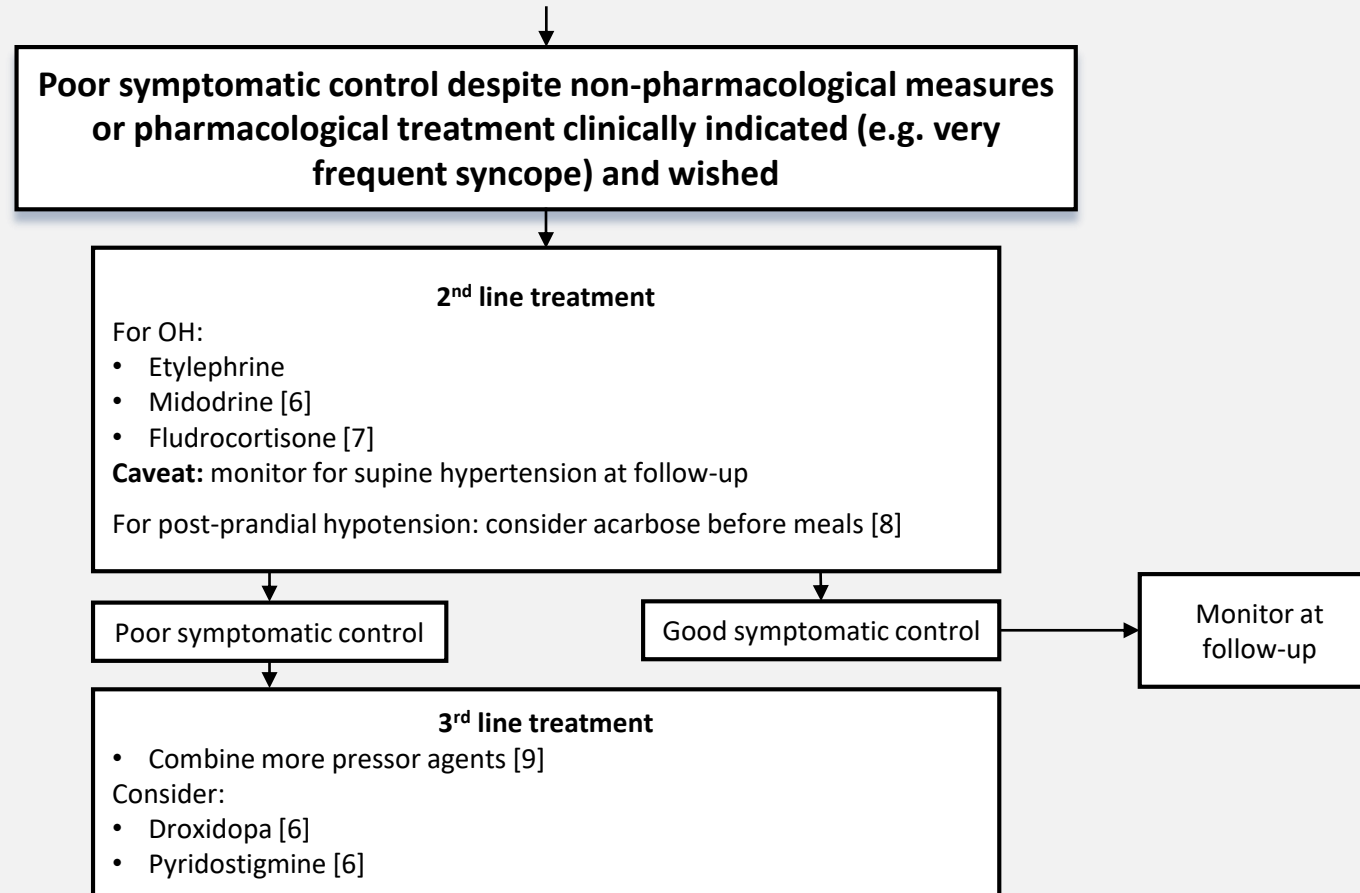


Orthostatic hypotension 1/2



***Orthostatic Hypotension:** a sustained reduction of systolic blood pressure of at least 20 mmHg and/or diastolic blood pressure of 10 mmHg within 3 min of standing or head-up tilt to at least 60° on a tilt table [1]

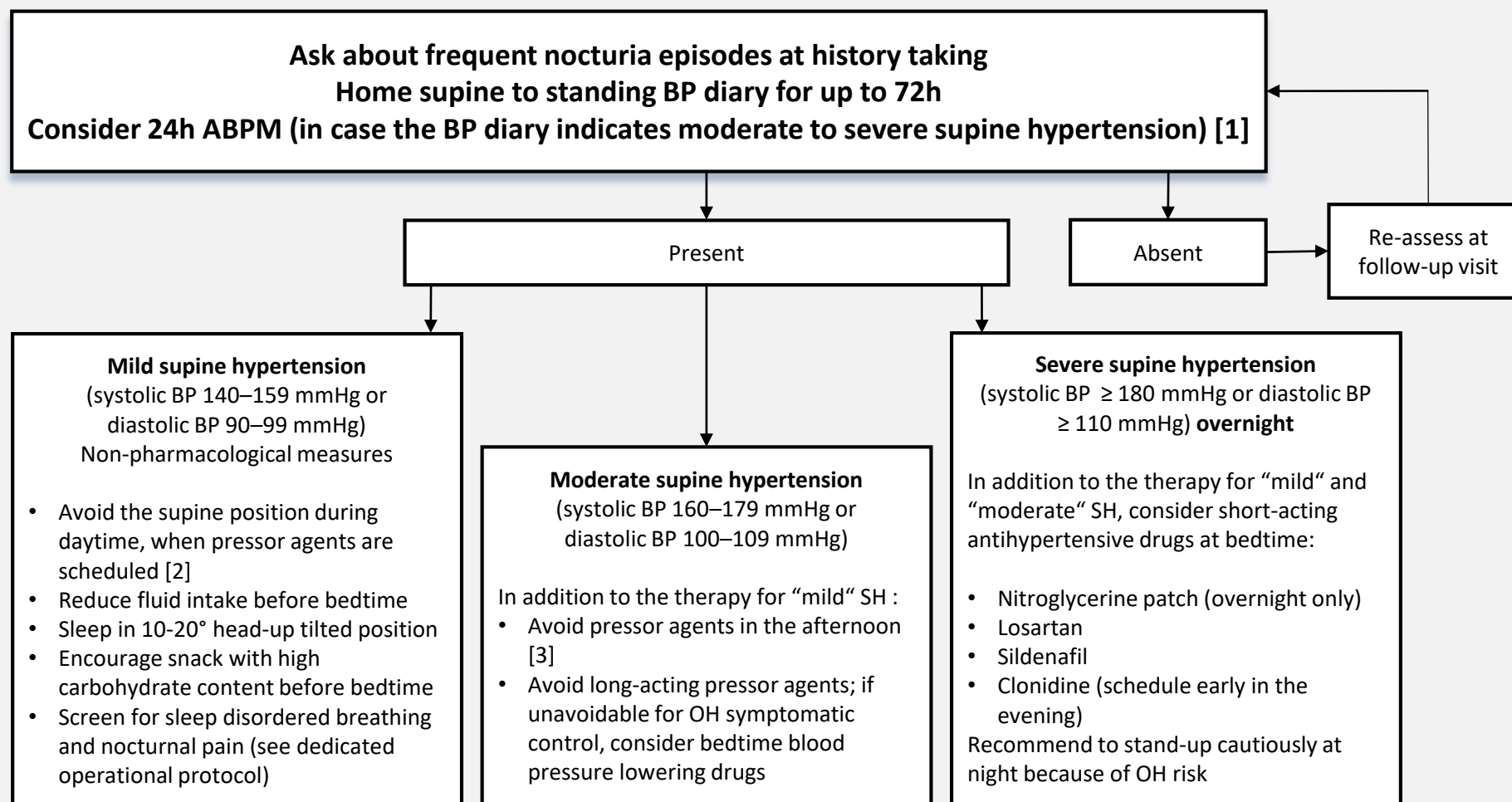
Orthostatic hypotension 2/2



COMPASS-31: Composite Autonomic Symptom Score; 24h- ABPM- 24 hours Ambulatory Blood Pressure Monitoring.

- [1] <https://www.sciencedirect.com/science/article/pii/S156607021100035X?via%3Dihub>
- [2] <https://link.springer.com/article/10.1007/s10286-019-00619-7>
- [3] <https://pubmed.ncbi.nlm.nih.gov/32894454/>
- [4] <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7592655/>
- [5] https://www.nejm.org/doi/10.1056/NEJM198508293130905?url_ver=Z39.88-2003&rfr_id=ori:rid:crossref.org&rfr_dat=cr_pub%20%200pubmed
- [6] <https://pubmed.ncbi.nlm.nih.gov/28050656/>
- [7] <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5686257/>
- [8] https://www.ahajournals.org/doi/10.1161/HYPERTENSIONAHA.107.091355?url_ver=Z39.88-2003&rfr_id=ori:rid:crossref.org&rfr_dat=cr_pub%20%200pubmed
- [9] <https://n.neurology.org/content/38/6/951>

Supine and nocturnal hypertension



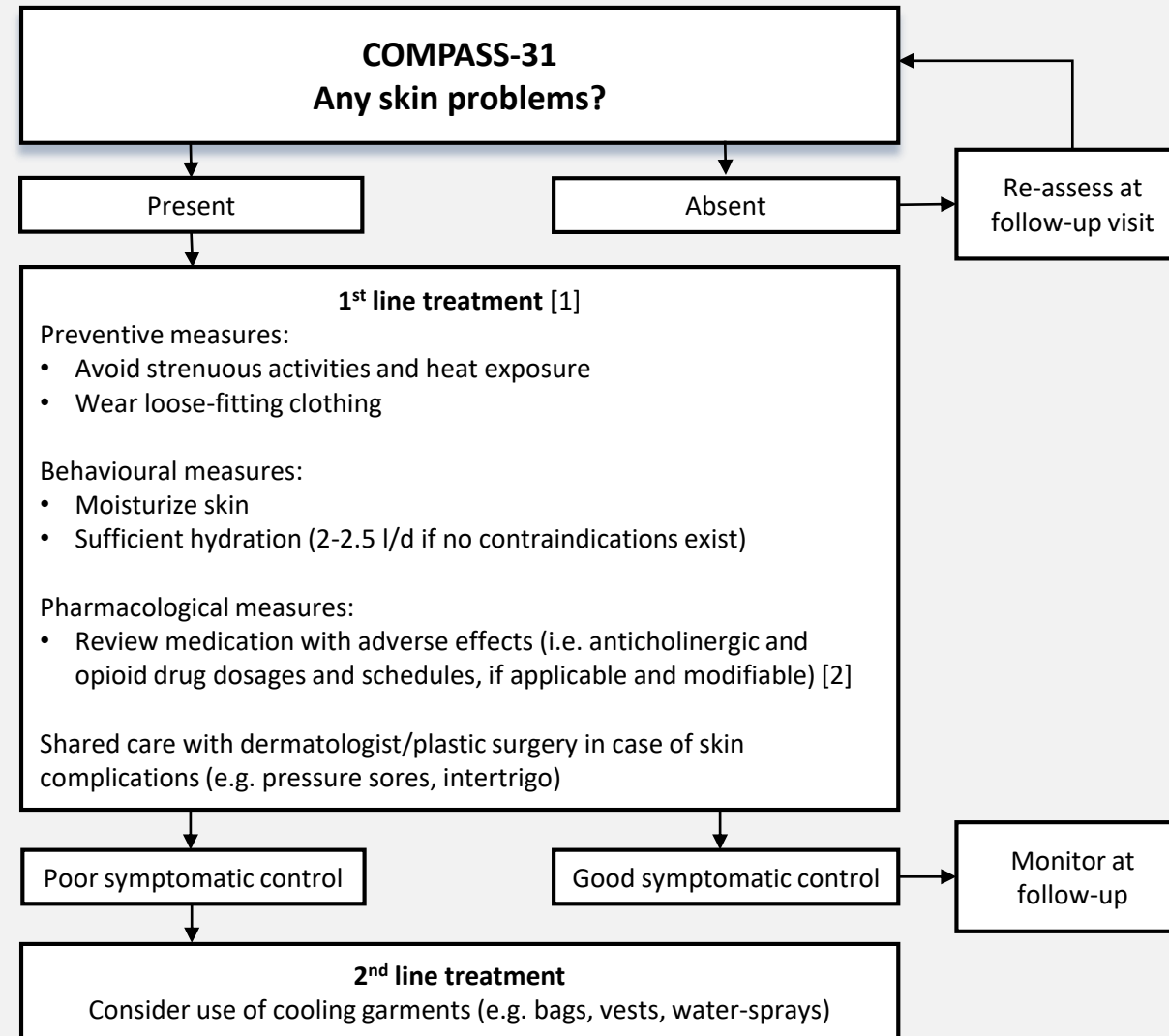
BP: blood pressure; OH: orthostatic hypotension; ABPM: ambulatory blood pressure monitoring.

[1] <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6097730/>

[2] <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7592655/>

[3] https://journals.lww.com/jhypertension/Fulltext/2019/08000/Management_of_supine_hypertension_in_patients_with.2.aspx

Hypo/Anhidrosis

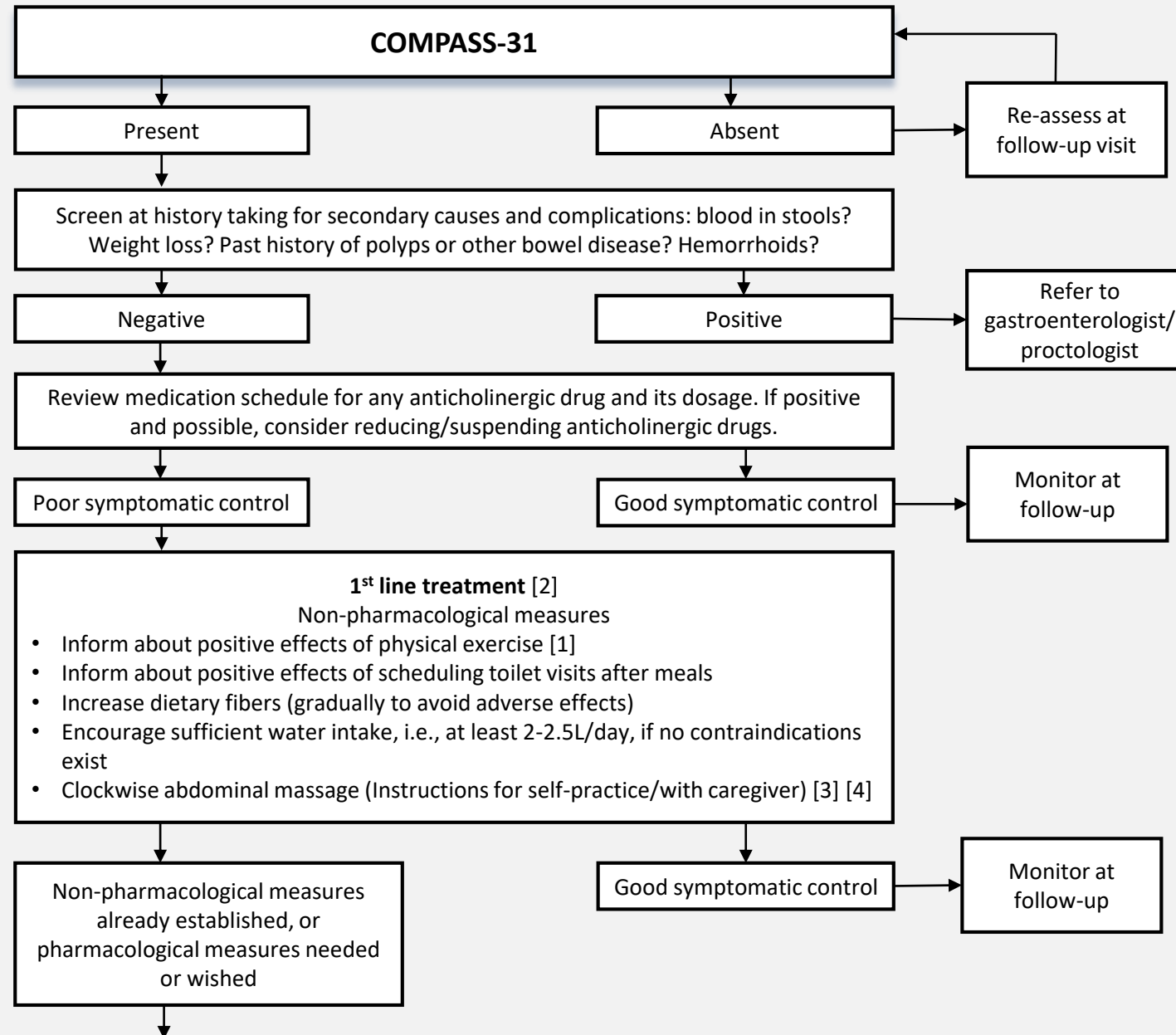


COMPASS-31: Composite Autonomic Symptom Score; Q-SART: Quantitative Sudomotor Axon Reflex Testing.

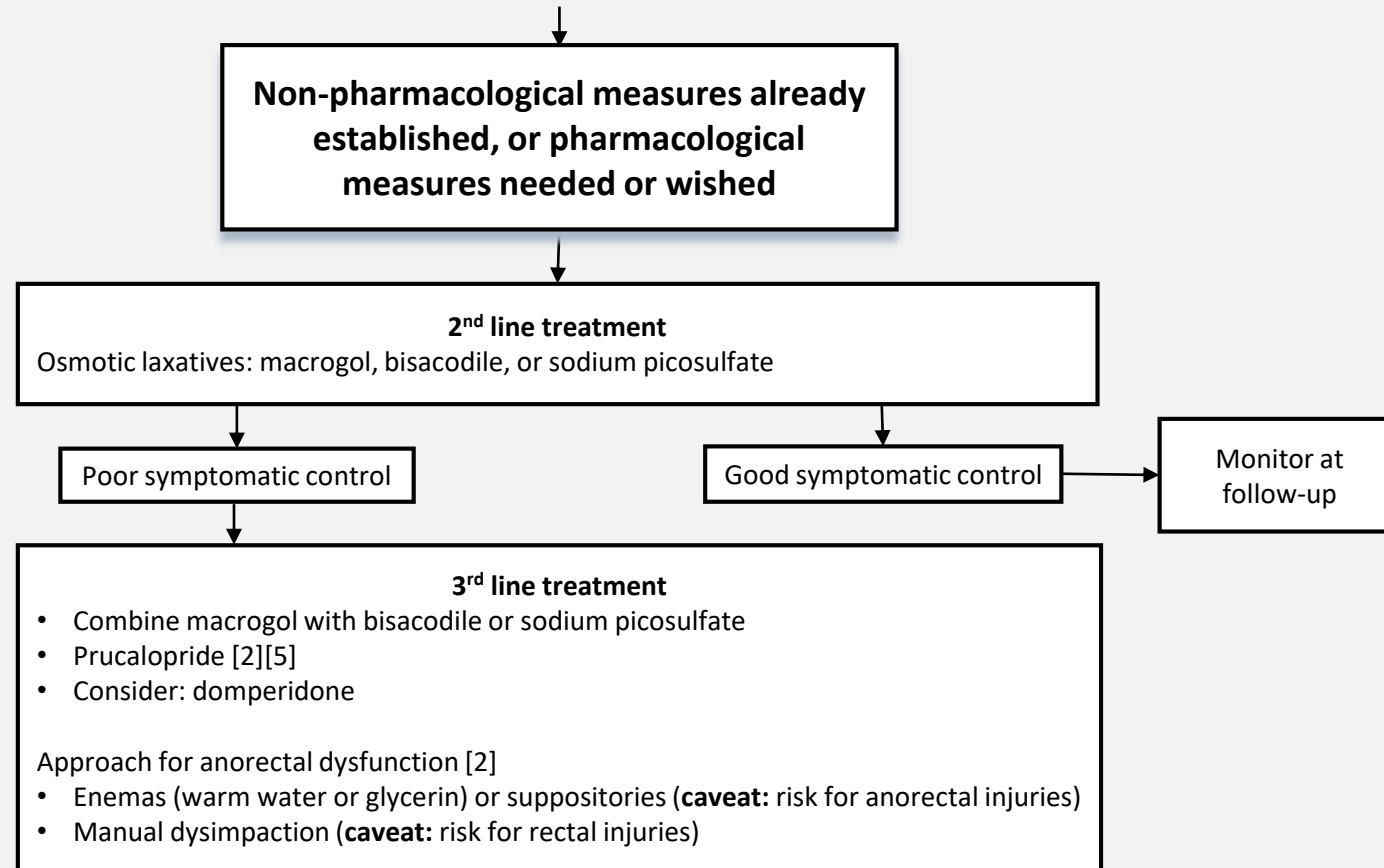
[1] <https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-0040-1713844>

[2] <https://onlinelibrary.wiley.com/doi/10.1111/jdv.12014>

Constipation 1/2



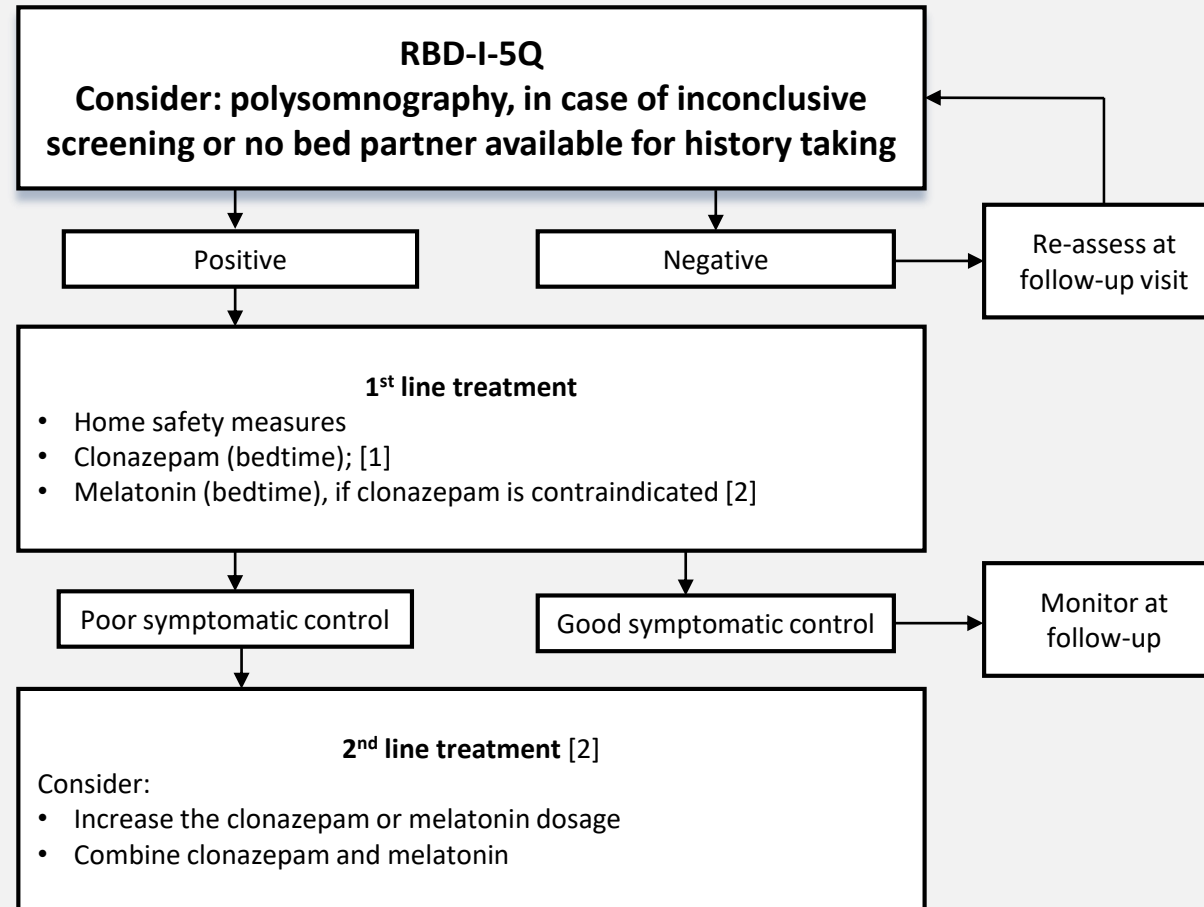
Constipation 2/2



BTX: Botulinum toxin; COMPASS-31: Composite Autonomic Symptom Score.

- [1] <https://link.springer.com/article/10.1007/s10072-021-05041-4>
- [2] <https://www.aafp.org/pubs/afp/issues/2015/0915/p500.html#afp20150915p500-b13>
- [3] <https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD002115.pub4/full>
- [4] <https://www.sciencedirect.com/science/article/pii/S0020748909000108?via%3Dihub>
- [5] <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5673021/>

RBD

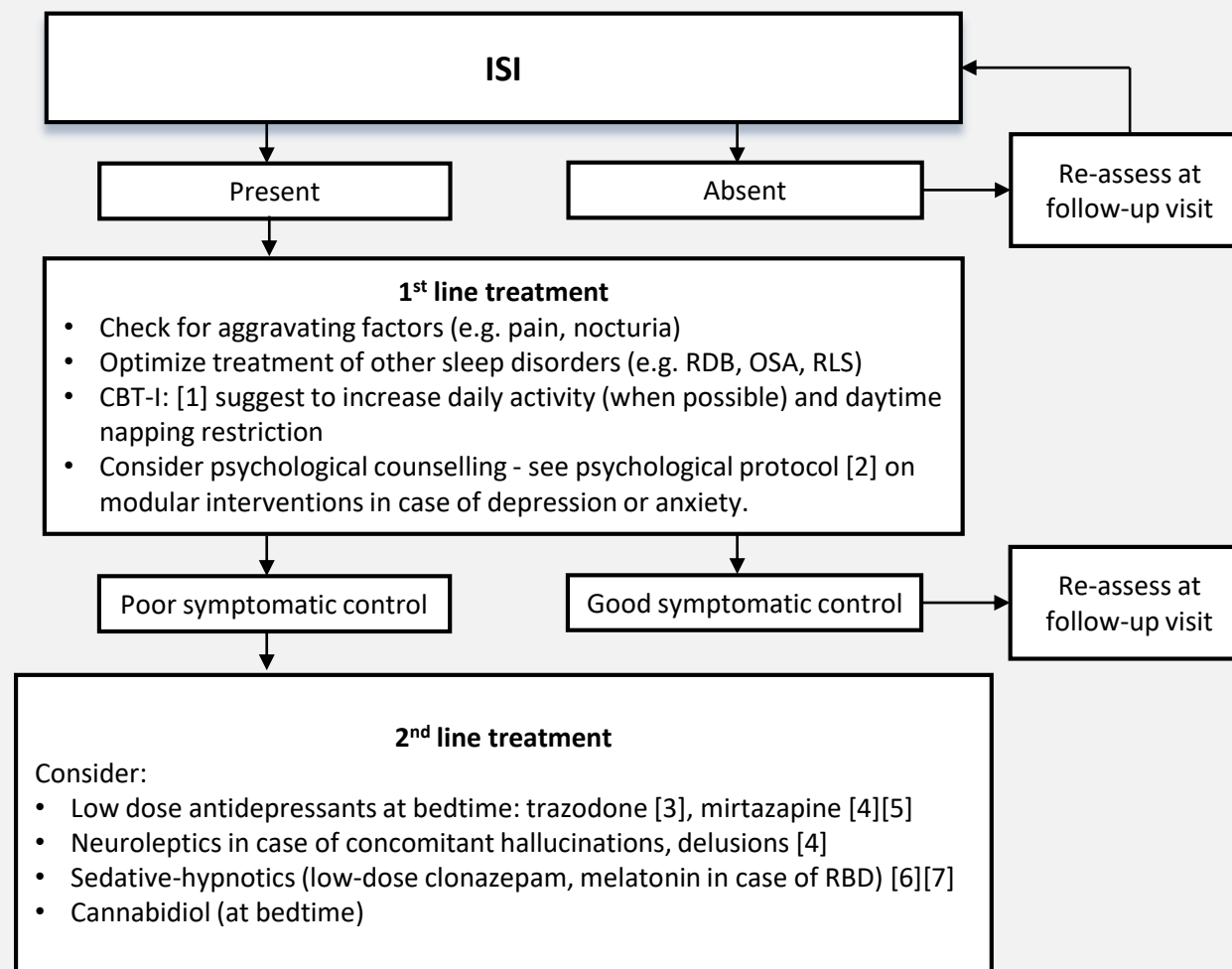


RBD-I-5Q: Innsbruck REM sleep behaviour inventory- 5 questions.

[1] <https://jcsn.aasm.org/doi/10.5664/jcsn.10424>

[2] <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10125958/>

Insomnia



CBT-I: Cognitive Behavioral Therapy for Insomnia; ISI: Insomnia Severity Index.

[1] https://www.acpjournals.org/doi/full/10.7326/M15-2175?rfr_dat=cr_pub++0pubmed&url_ver=Z39.88-2003&rfr_id=ori%3Arid%3Acrossref.org

[2] <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2576317/>

[3] [Safety and efficacy of melatonin, clonazepam, and trazodone in patients with Parkinson's disease and sleep disorders: a randomized, double-blind trial | Cochrane Library](#)

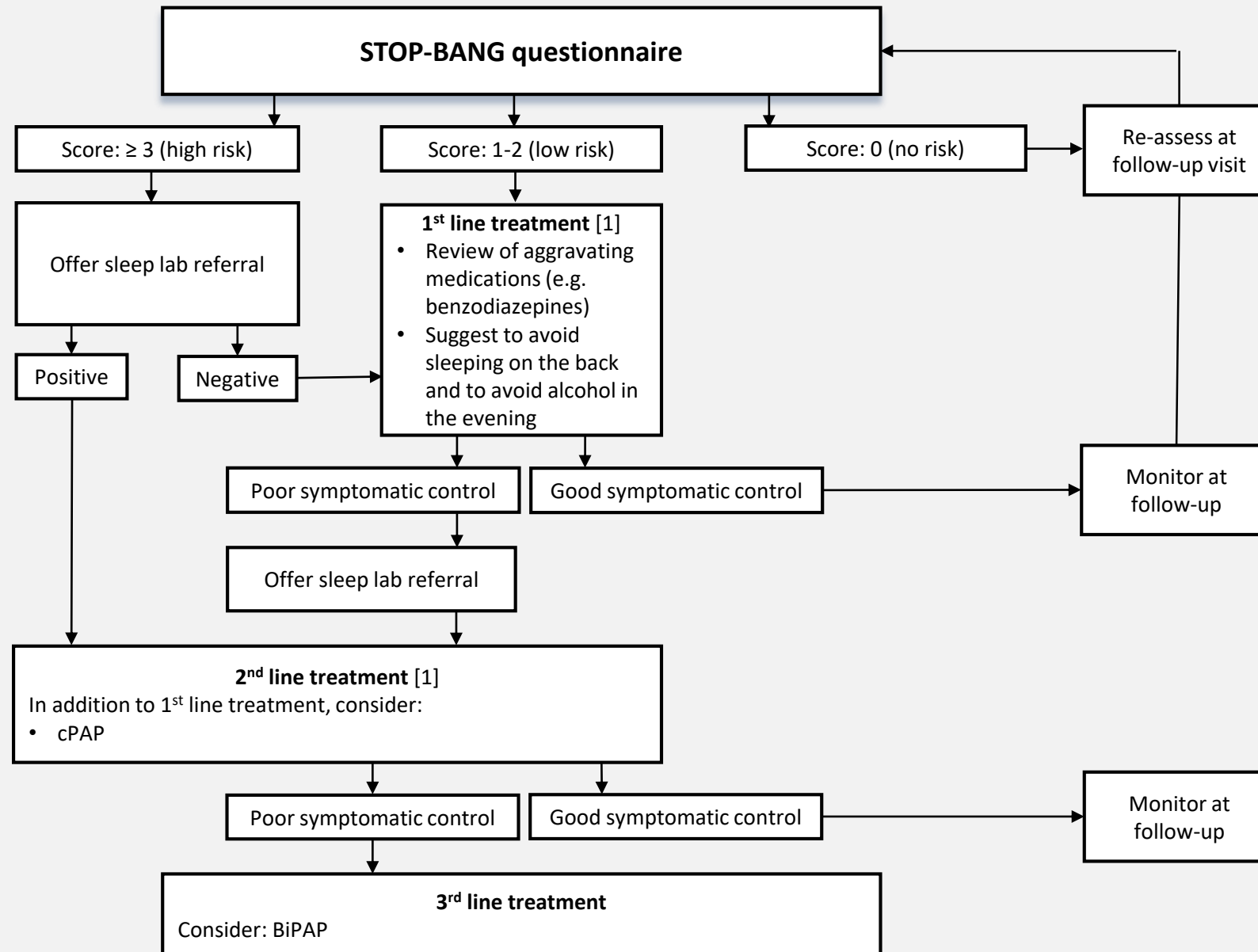
[4] https://journals.sagepub.com/doi/10.1177/0269881116681399?url_ver=Z39.88-2003&rfr_id=ori:rid:crossref.org&rfr_dat=cr_pub%20%20pubmed

[5] <https://academic.oup.com/sleep/article/43/11/zsaa092/5837058?login=true>

[6] <https://www.sciencedirect.com/science/article/pii/S1389945705000961?via%3Dihub>

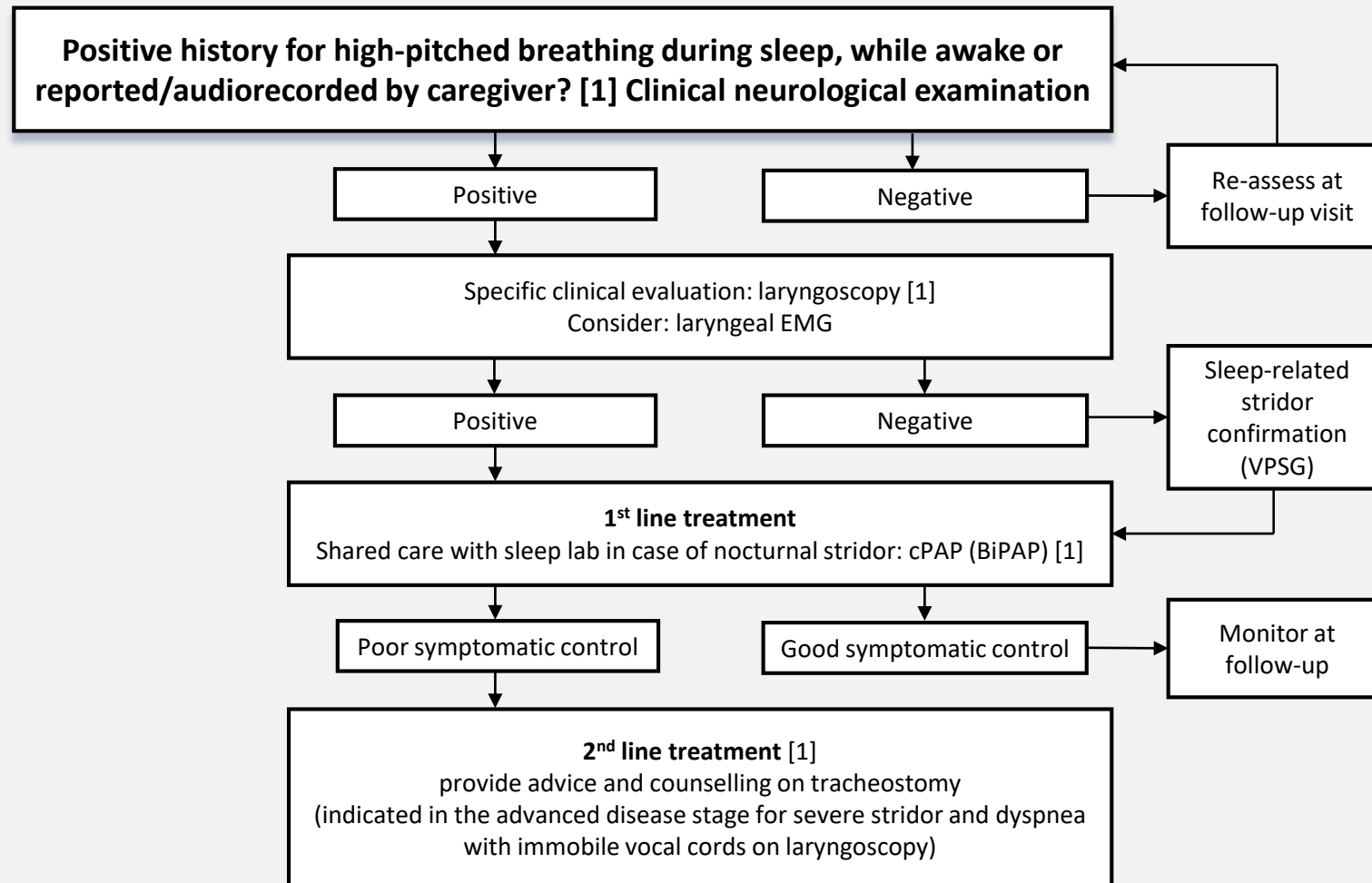
[7] <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7111581/>

OSA

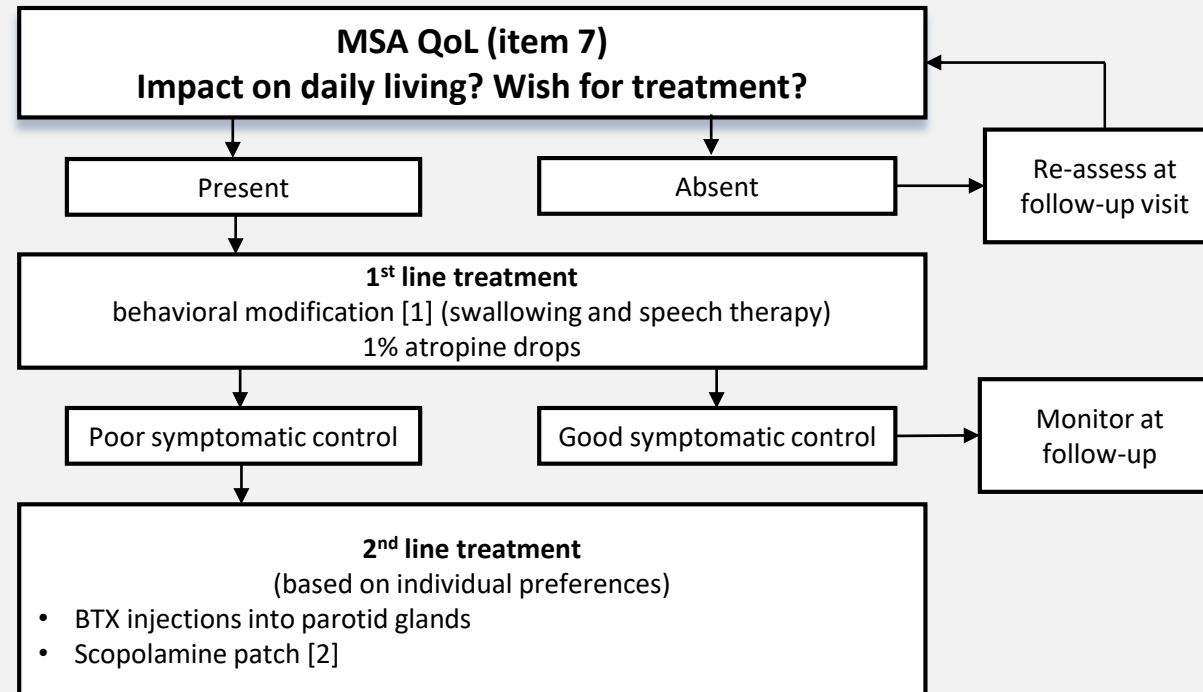


[1] <https://onlinelibrary.wiley.com/doi/10.1002/alr.23079> BiPAP: Bifasic Positive Active Pressure; CPAP: continuous Positive Active Pressure; OSA: Obstructive Sleep Apnoea.

Stridor



Sialorrhea

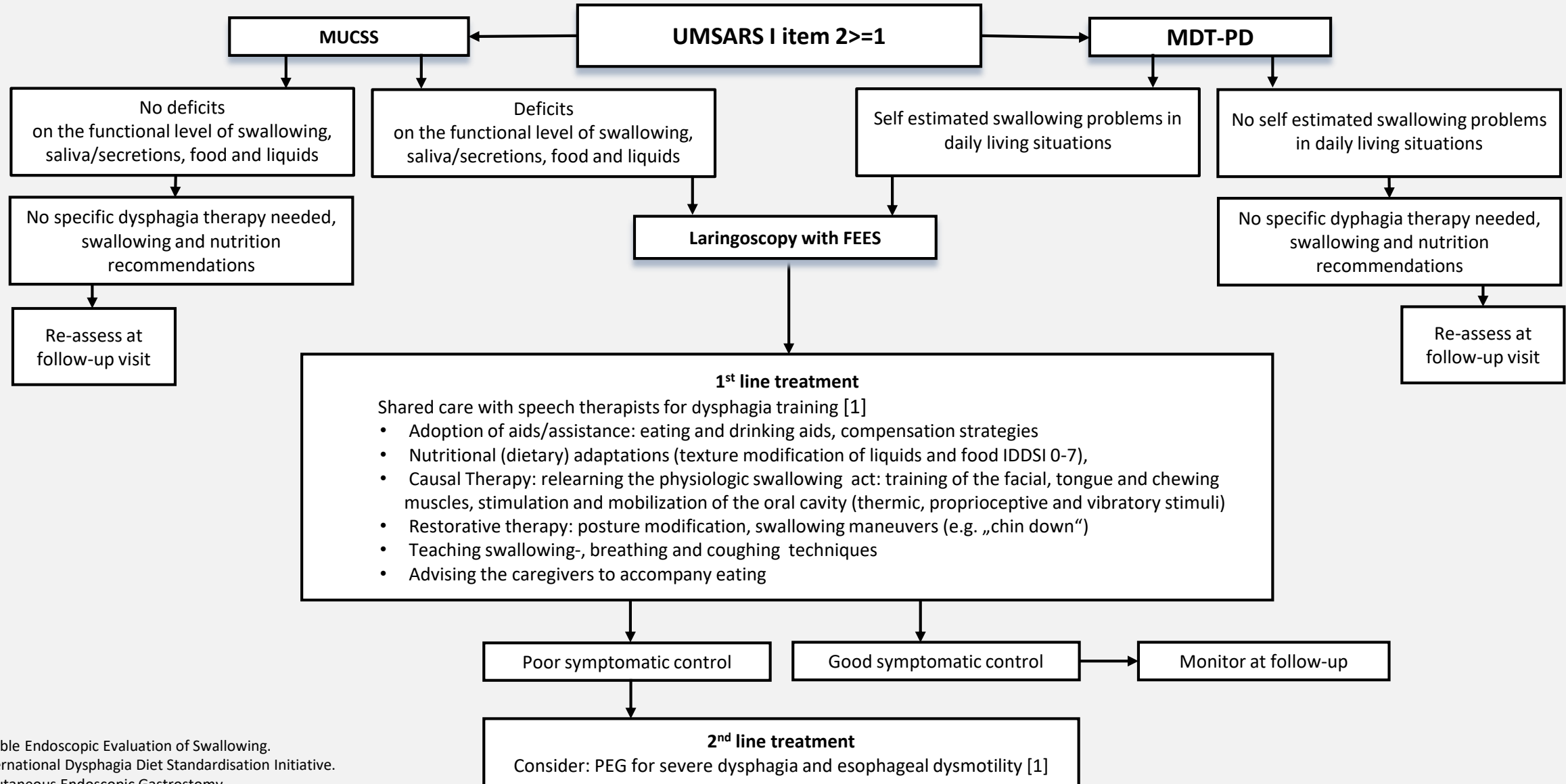


BTX: Botulinum toxin.

[1] https://journals.sagepub.com/doi/10.1177/0145445506298723?url_ver=Z39.88-2003&rfr_id=ori:rid:crossref.org&rfr_dat=cr_pub%20%20pubmed

[2] <https://onlinelibrary.wiley.com/doi/10.1111/jocn.15009>

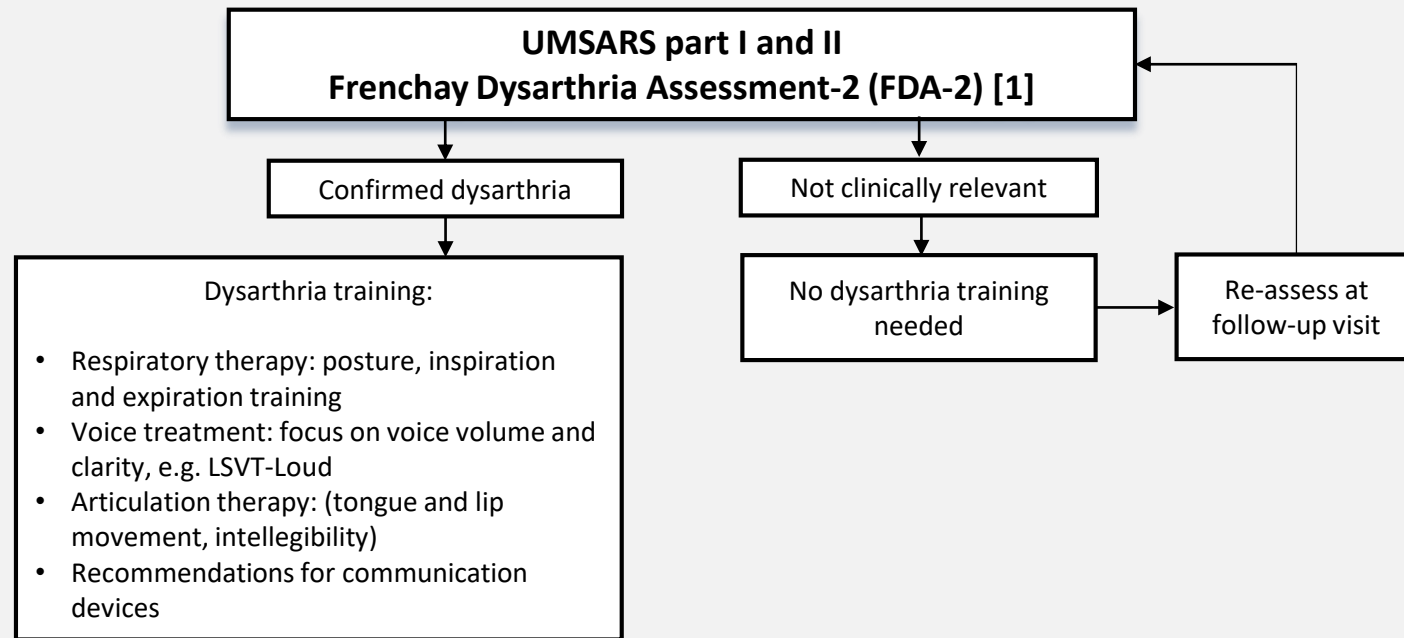
Dysphagia



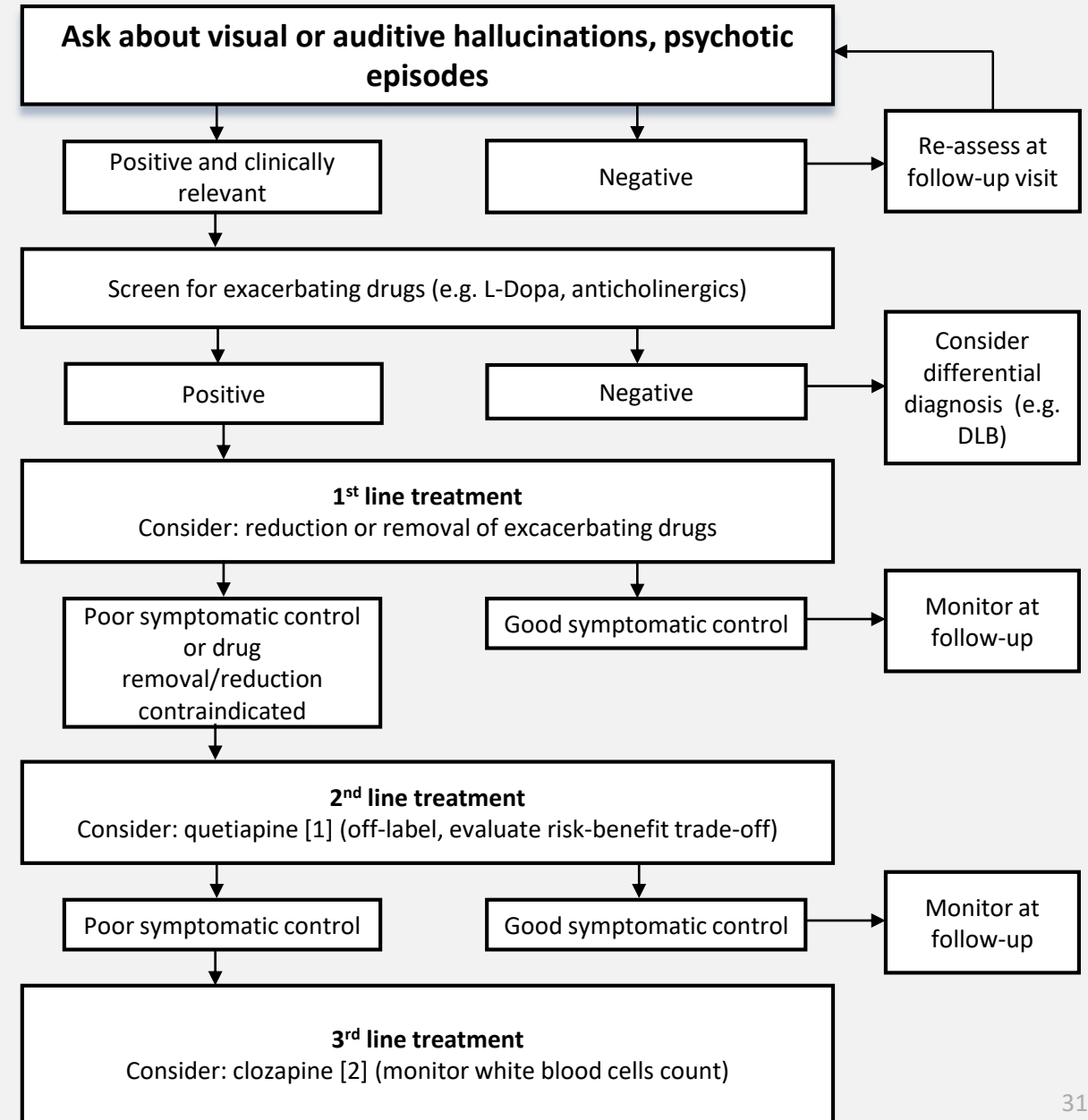
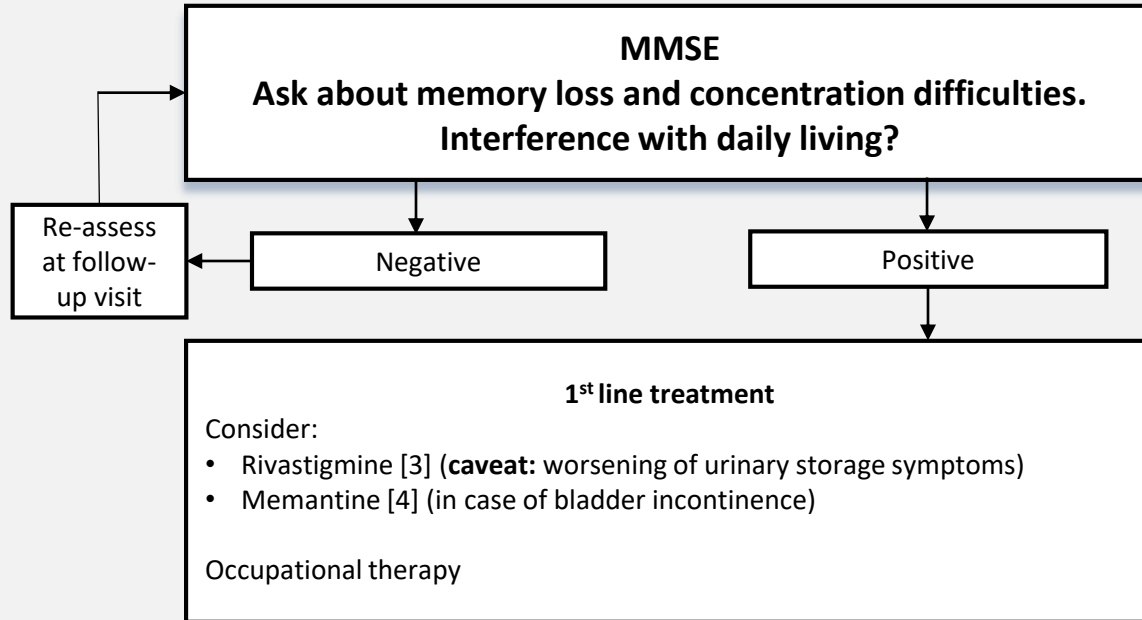
FEES: Flexible Endoscopic Evaluation of Swallowing.
IDDSI: International Dysphagia Diet Standardisation Initiative.
PEG: Percutaneous Endoscopic Gastrostomy.
UMSARS: Unified Multiple System Atrophy Rating Assessment.
MDT-PD: Munich Dysphagia Test- Parkinson Disease.
MUCSS: Munich- Copenhagen Swallowing Screen.

[1] <https://www.sciencedirect.com/science/article/pii/S1353802021001206?via%3Dihub>

Dysarthria: speech therapists approach



Cognition



MMSE: Mini Mental State Examination.

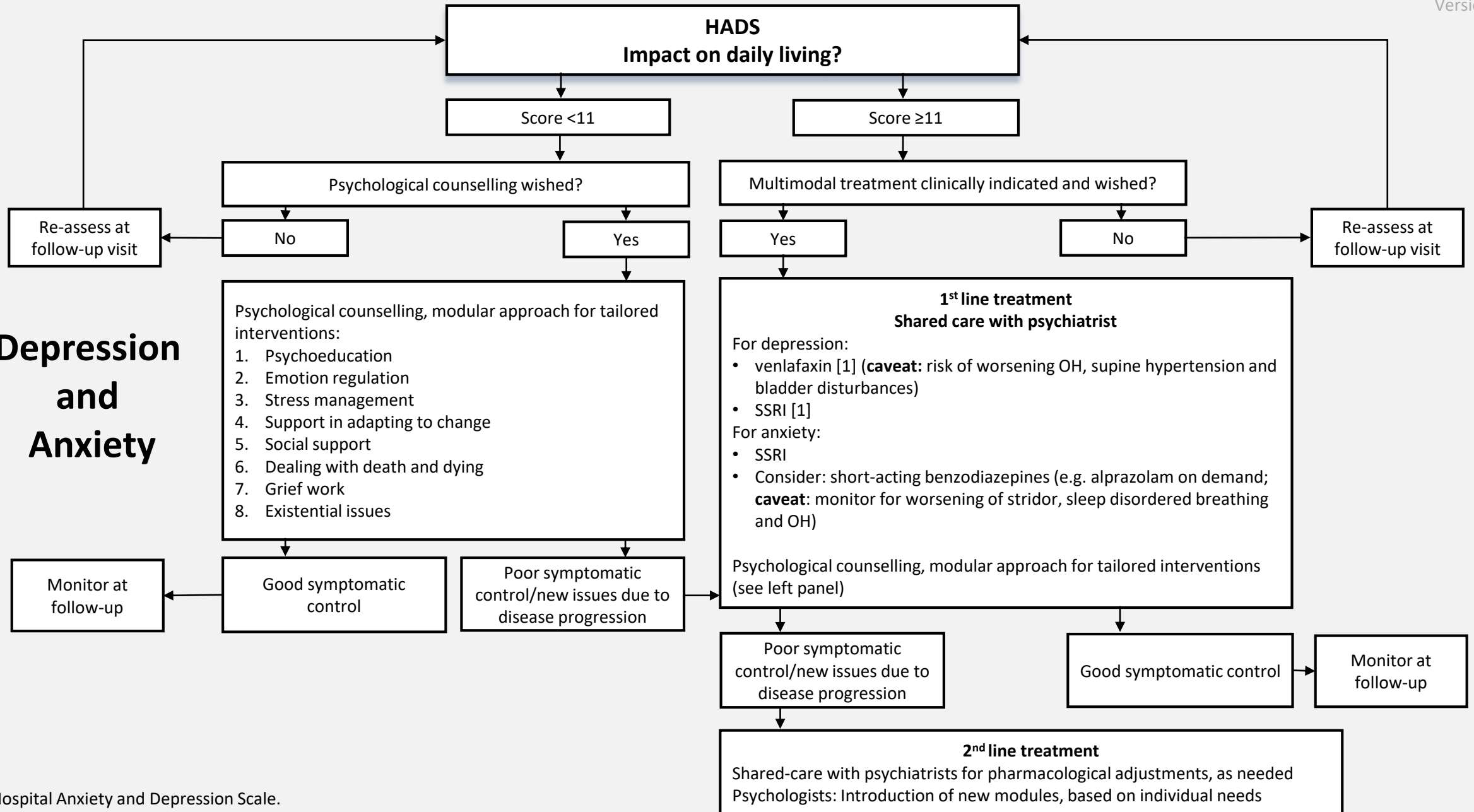
[1] <https://movementdisorders.onlinelibrary.wiley.com/doi/10.1002/mds.10374>

[2] <https://www.nejm.org/doi/full/10.1056/nejm199903113401003>

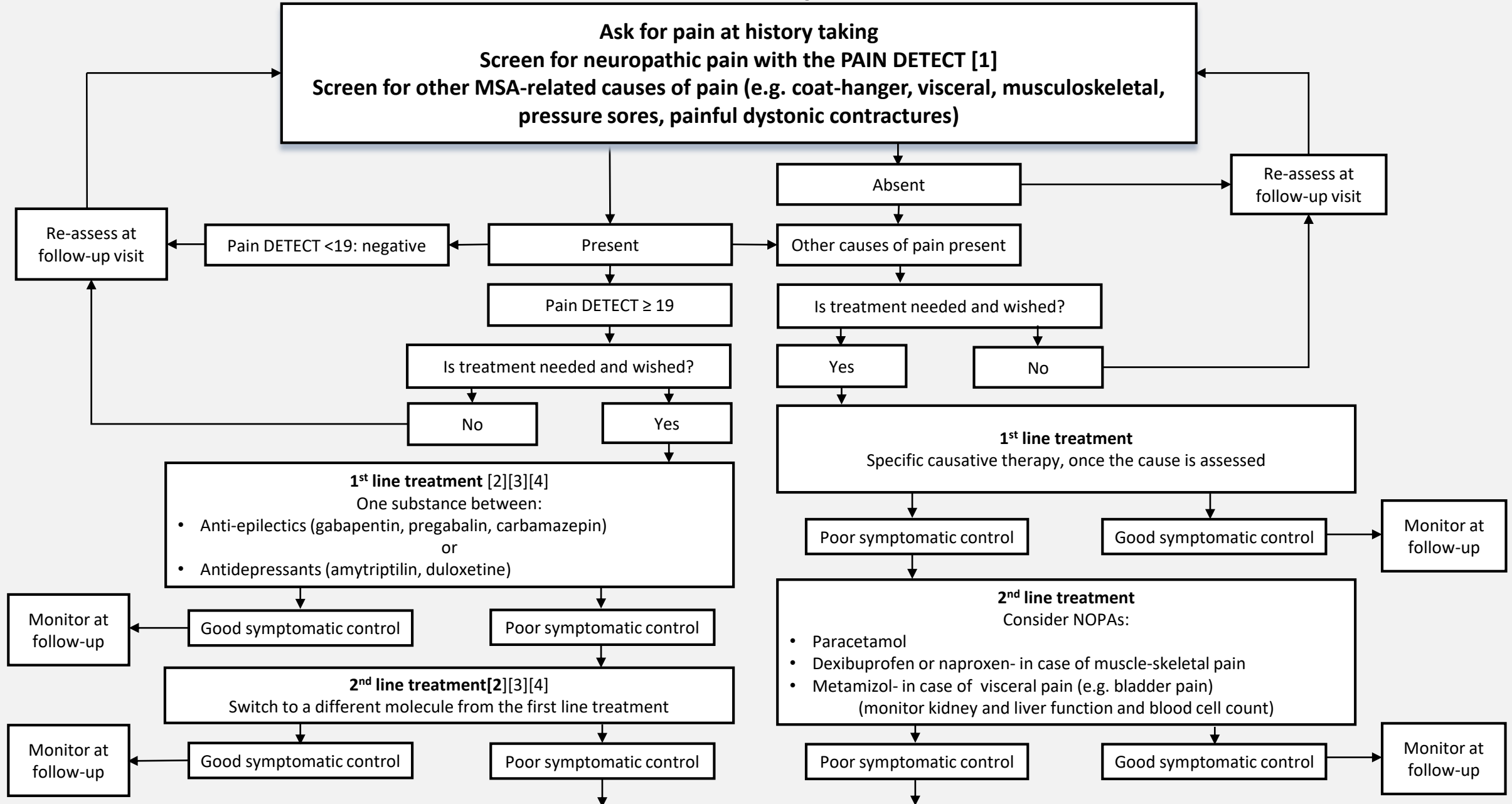
[3] <https://www.nejm.org/doi/full/10.1056/nejmoa041470>

[4] <https://www.sciencedirect.com/science/article/pii/S1474442209701462>

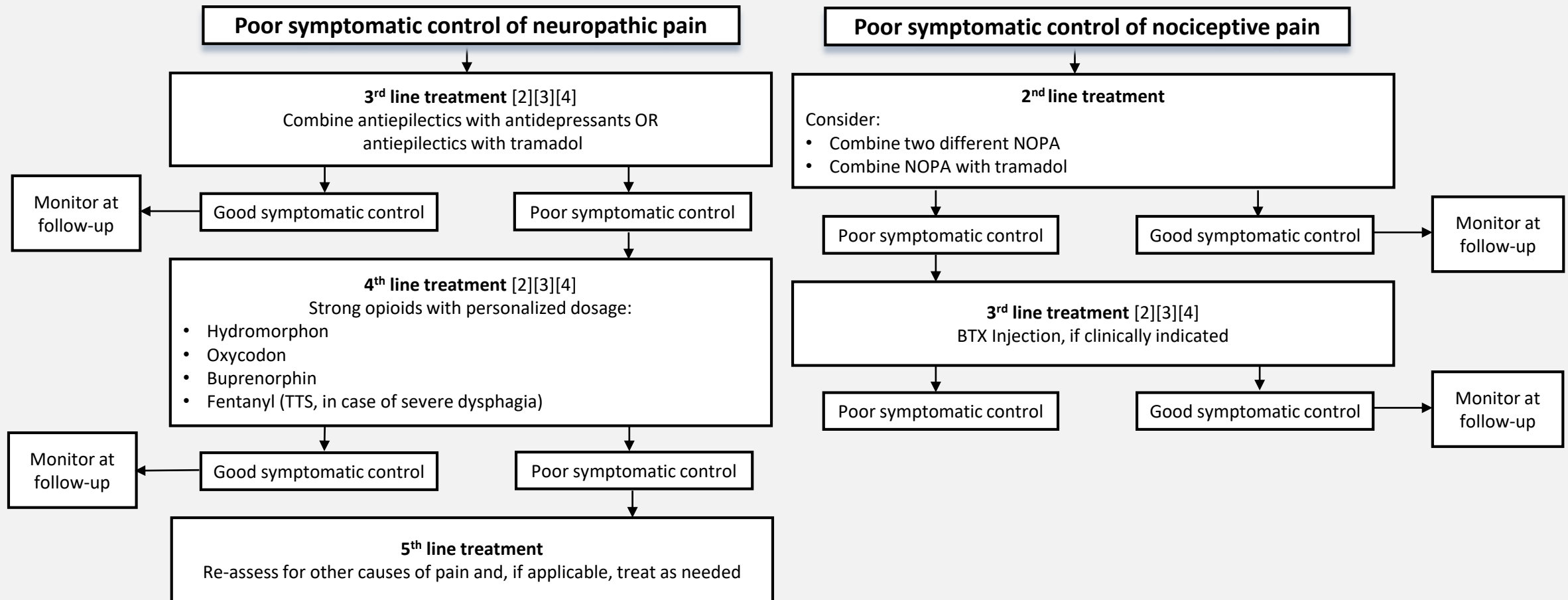
Depression and Anxiety



Pain 1/2



Pain 2/2



NOPA: Non Opioid Analgetic drugs.

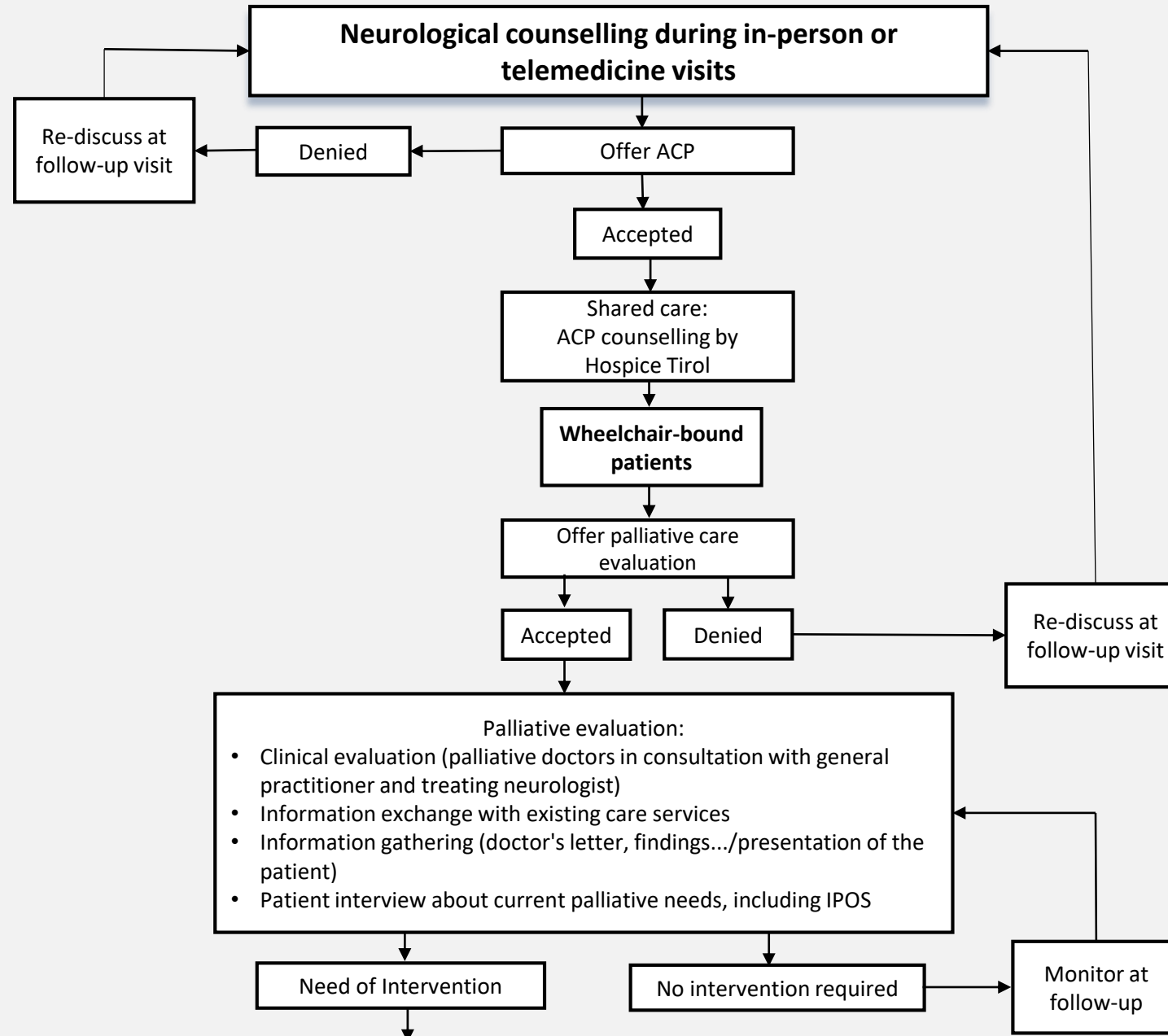
[1] <https://www.tandfonline.com/doi/abs/10.1185/030079906X132488>

[2] https://journals.lww.com/pain/Fulltext/2015/04001/Pharmacotherapy_of_neuropathic_pain_which_drugs.14.aspx

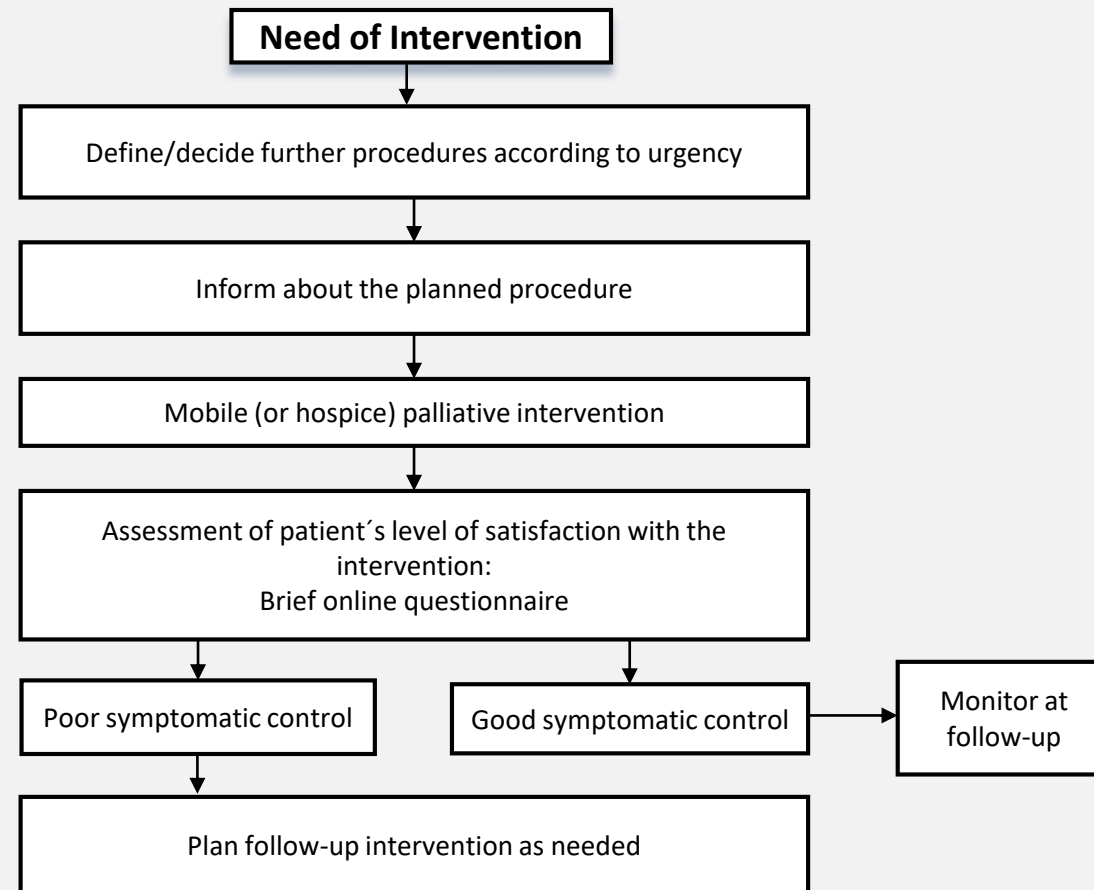
[3] https://academic.oup.com/painmedicine/article/20/Supplement_1/S2/5509427?login=true

[4] https://journals.lww.com/pain/Fulltext/2005/12050/Algorithm_for_neuropathic_pain_treatment_An.3.aspx

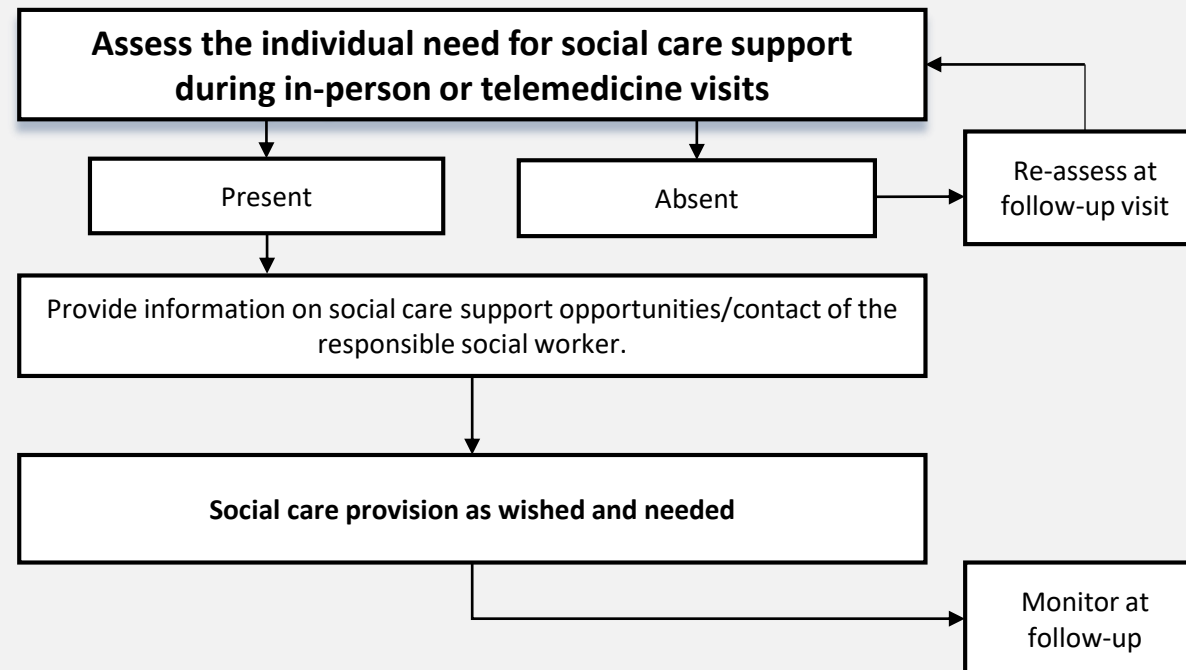
Palliative care 1/2



Palliative care 2/2



Social workers assistance



Abbreviations

ADL: Activities of daily living.

BBS: Berg Balance Scale.

BBT: Box and Blocks Test.

Bi PAP: Bifasic Positive Active Pressure.

BTX: Botulinum toxin.

CBT-I: Cognitive Behavioral Treatment- Insomnia.

COMPASS-31: Composite Autonomic Symptom Score-31.

CPAP: Continuous Positive Active Pressure.

ED: Erectile dysfunction.

EMG: Electromyography.

FAC: Functional Ambulation Categories.

FDA-2: Frenchay Dysarthria Assessment -2.

FEES: Flexible Endoscopic Evaluation of Swallowing.

HADS: Hospital Anxiety and Depression Scale.

IPOS: Integrated Palliative Outcome Scale.

ISI: Insomnia Severity Index.

MSA QoL: Multiple System Atrophy Quality of Life.

MDT-P: Munich Dysphagia Test- Parkinson Disease.

MMSE: Mini Mental State Examination.

MPT: Mobile Palliative care Team.

MUCSS: Munich- Copenhagen Swallowing Screen.

NHPT: Nine Hole Pipe Test.

NOPAs: Non Opioid Analgetic drugs.

OH: Orthostatic Hypotension.

OSA: Obstructive Sleep Apnoea.

OSA-DLS: Occupational Self Assessment- Daily Living Scale.

PEG: Percutaneous Endoscopic Gastrostomy.

Q-SART: Quantitative Sudomotor Axon Reflex Testing.

RBD-I- 5Q: Innsbruck REM sleep behaviour inventory- 5 questions.

SAPS: Short Assessment of Patients Satisfaction.

SARA: Scale of the Assessment and Rating of Ataxia.

SSRI: Selective Serotonin Re-uptake Inhibitors.

TCT: Trunk Control Test.

TUG: Timed Up & Go.

UMSARS: Unified Multiple System Atrophy Rating Assessment.

VPSG: Video polysomnography.

10MWT: 10 Meters Walking Test.

24h- ABPM: 24 hours Ambulatory Blood Pressure Monitoring.