HYPERMOBILITY, EHLERS DANLOS SYNDROME, AND FLUTE PLAYING

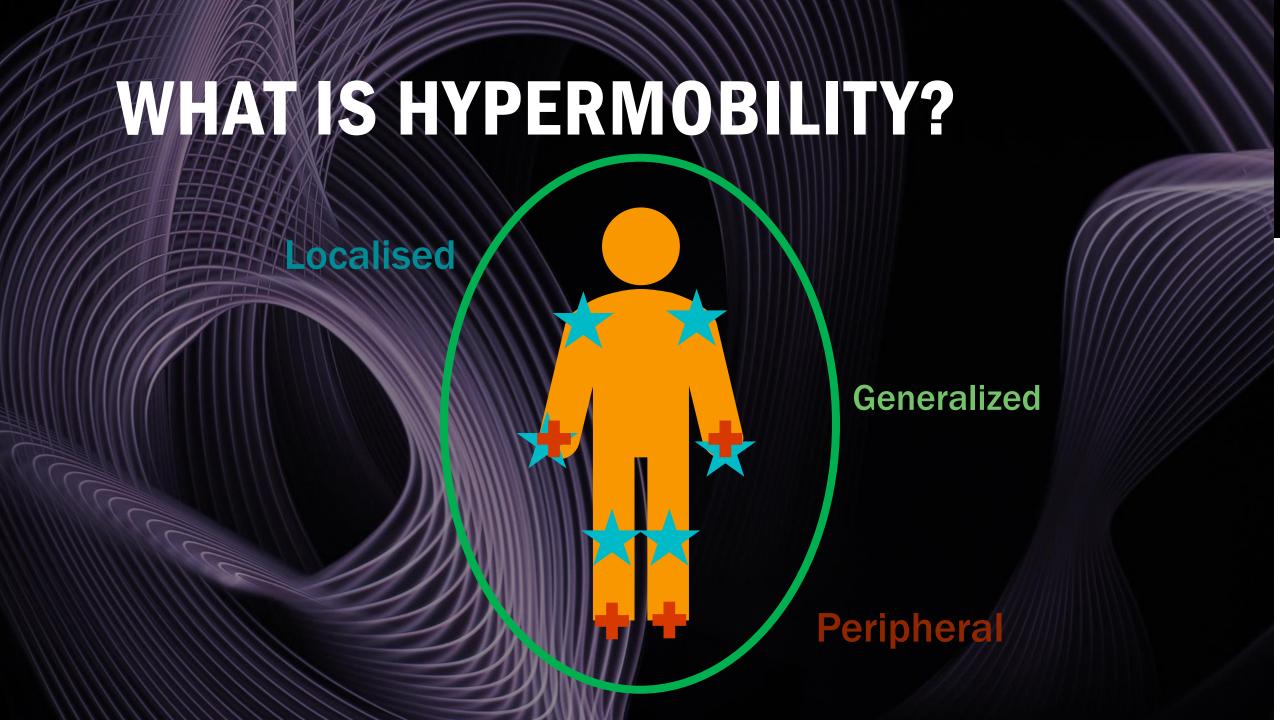
Simone Maurer CMA LIMS, MPhil Cantab, B.Mus (Hons) Griff, RSME/T ISMETA

with

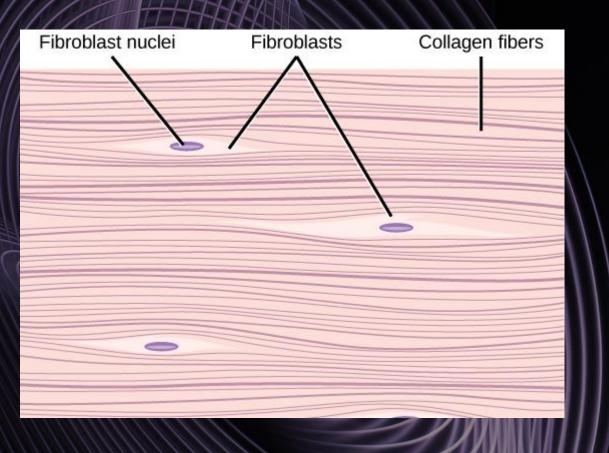
Gabriela Alvarado D.M.A

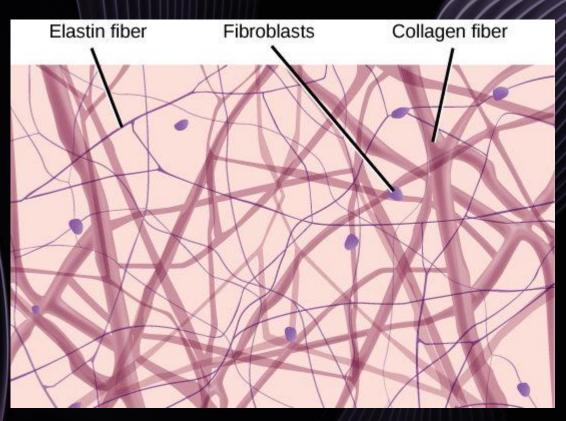


Ability to move joints beyond the normal range of movement

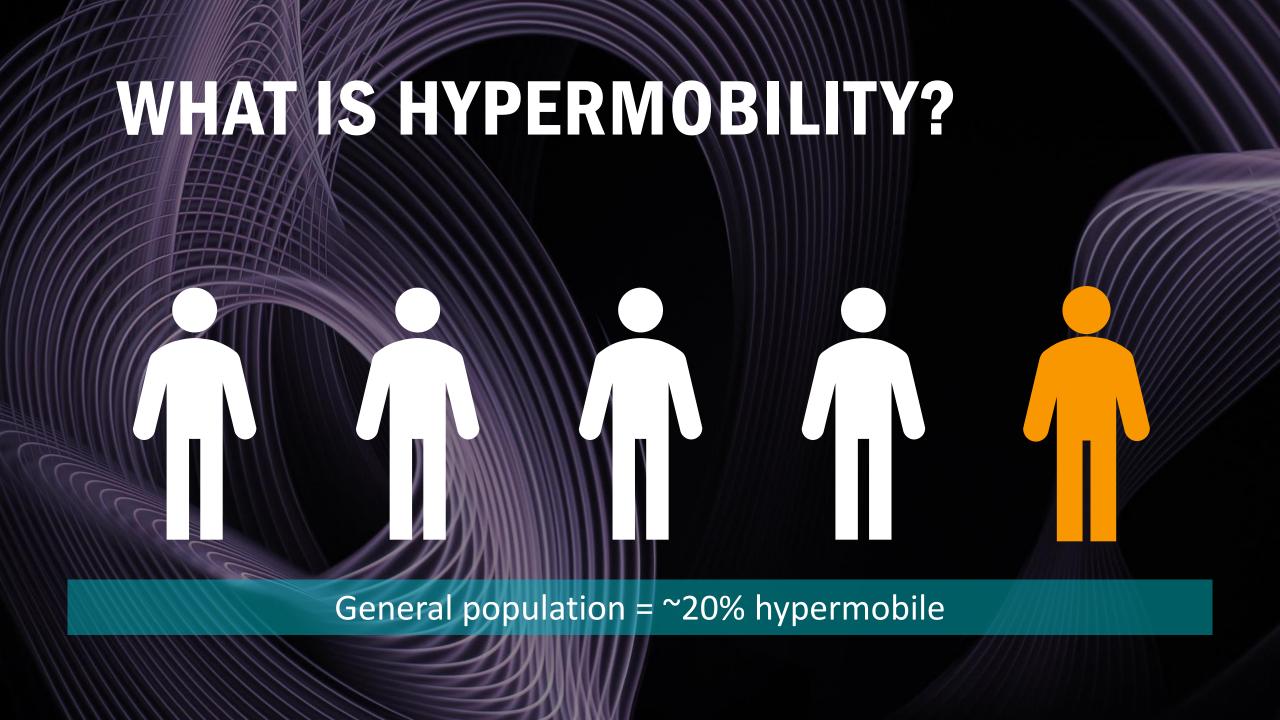


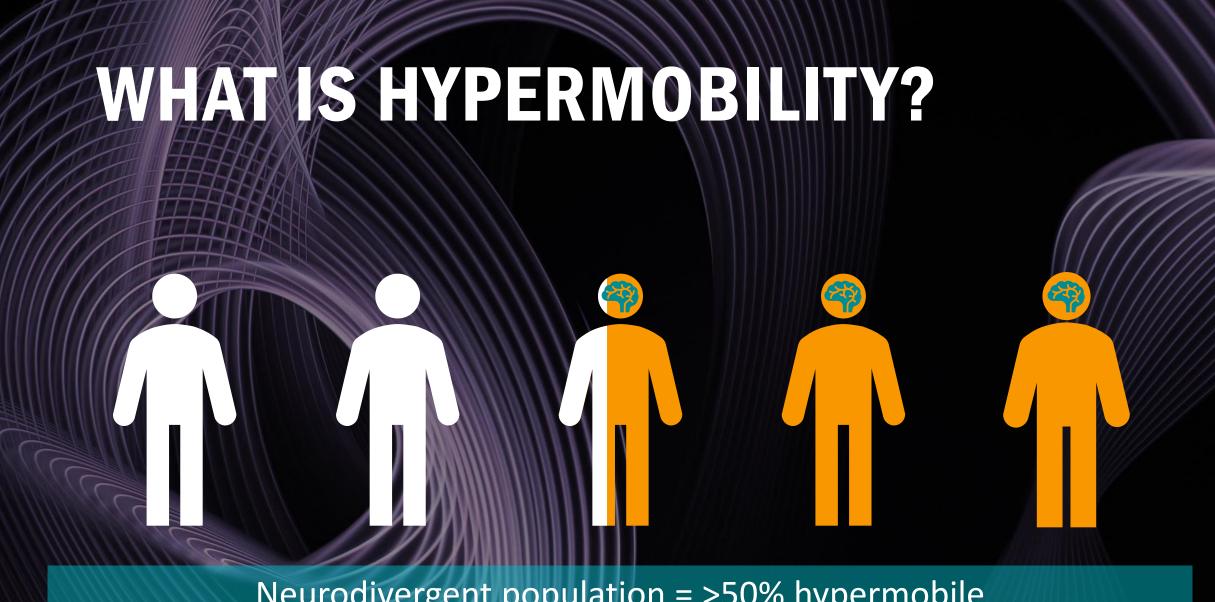
WHAT IS HYPERMOBILITY?





Examples of some connective tissue types





Neurodivergent population = >50% hypermobile

WHAT IS HYPERMOBILITY?

Symptomless

Symptomatic (syndrome/disorder)

Can exist with other symptoms / larger diagnosis

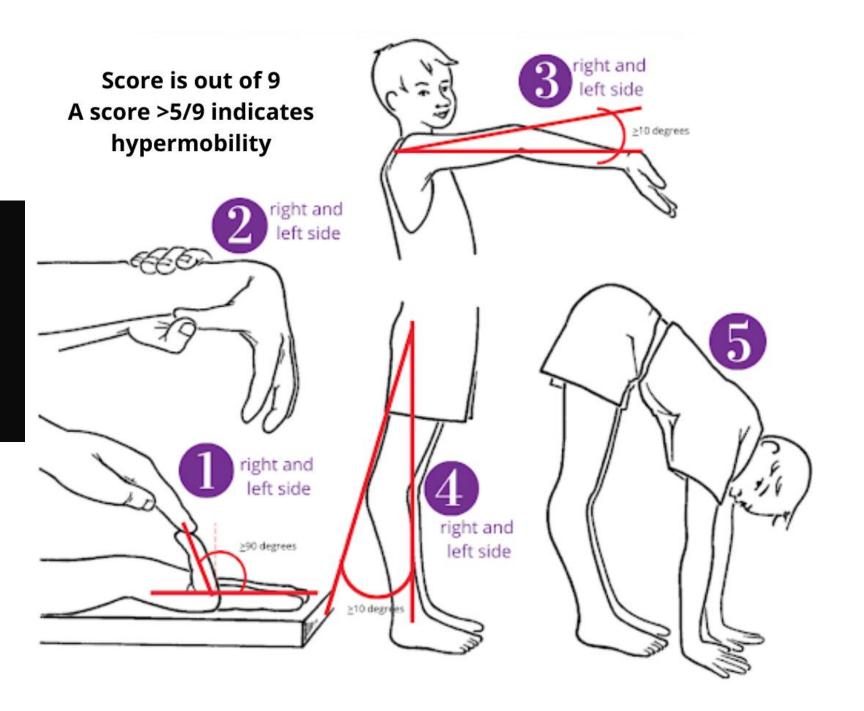




EDS HYPERMOBILITY

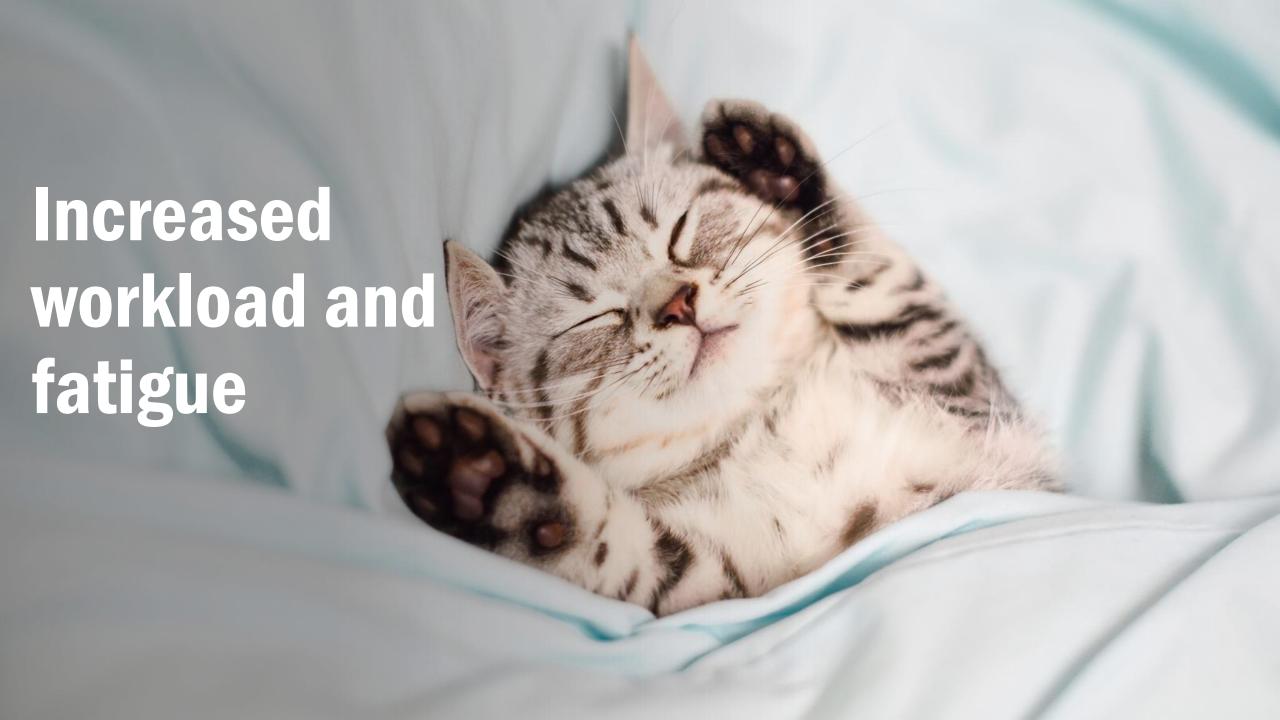
- Joint hypermobility
- Ligamentous laxity
- Recurring joint dislocations
- Chronic joint pain
- Pes planus (flat feet)
- Scoliosis

BEIGHTON'S HYPERMOBILITY SCORE





FURTHER POSSIBLE SYMPTOMS

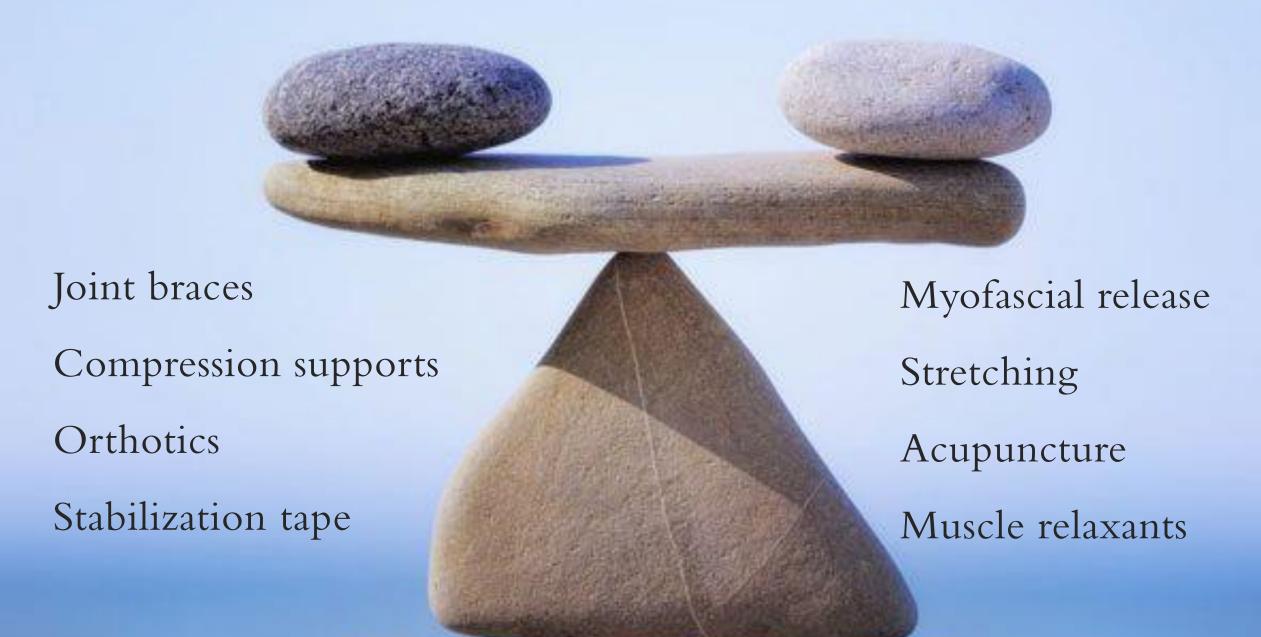


Increased injury risk





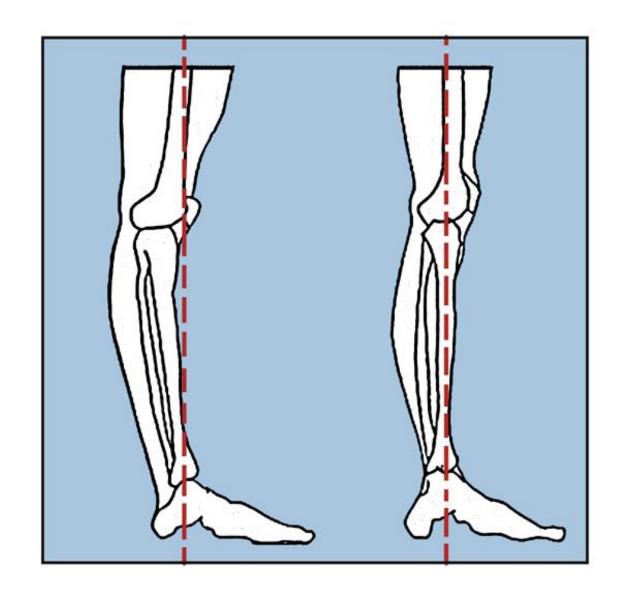
SUPPORT FOR JOINT STABILITY AND MUSCLE RELAXATION







Hyperextended knee joint

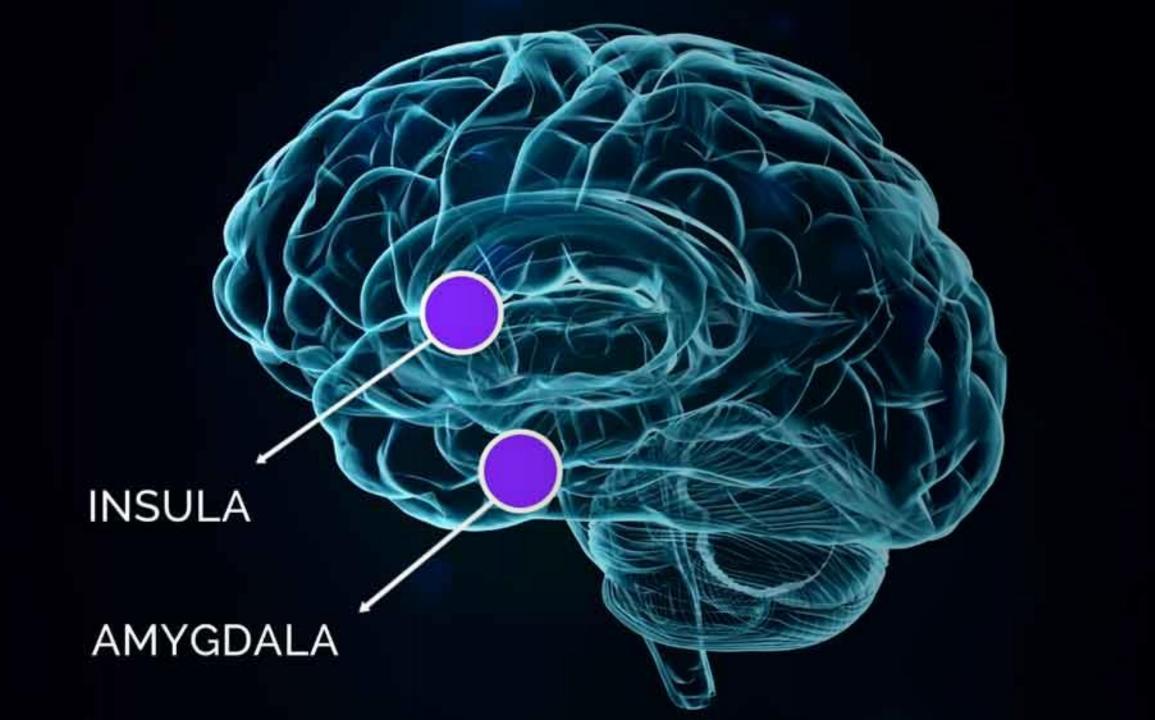


Physical Activity Recommendations

- Regular movement and exercise is important!
- Minimize or avoid high-impact activity and resistance exercise
- Increase muscle tone (not to be confused with strength)
- Do low resistance exercises, gradually increasing duration and repetitions
 - E.g., walking, cycling, swimming, water exercise, elliptical training, yoga, Pilates, core toning/stability
- Recognize and do not exceed physical limitations to minimise resistance and avoid excess repetitions
- Physical therapy referral (or similar) often appropriate



Digestive issues





Twitter: @bendybrain

Instagram: @drbendybrain

Dr Jessica Eccles (MB ChB, Dip(French), MA, MSc, MRCPsych, PhD, PGCert HE)

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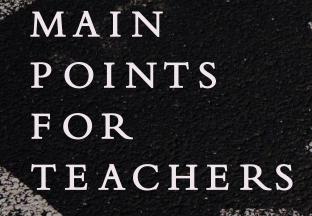
Areas of expertise: Brain-Body Interactions, Joint hypermobility, Liaison Psychiatry, Neurodevelopmental Conditions, Immunopsychiatry

Research areas: Neuroscience, Psychiatric and neurodevelopmental features of connective tissue disorders, Mechanisms of chronic pain and fatigue

Other websites: Orcid, Linkedin Linktree: linktr.ee/bendybrain



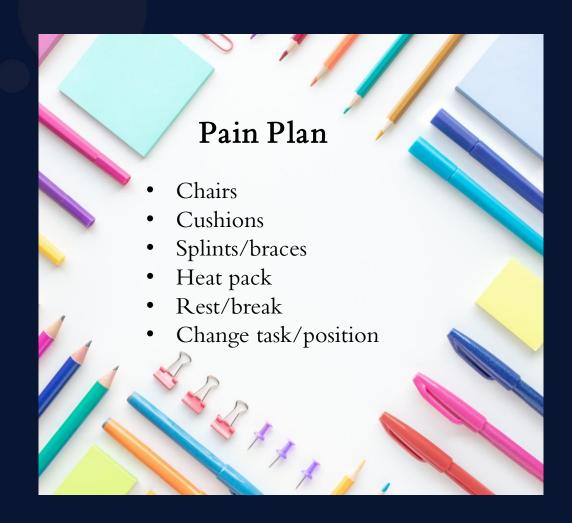
DR JESSICA ECCLES



- Be aware of physical differences and their impact on cognition/emotion/pain processing:
 - Slight brain structural difference in processing emotion/fear (amygdala) → can lead to increased anxiety
 - Joints moving beyond the normal range → pain, injury, incorrect alignment, more muscular/cognitive effort required
- Be patient (sensorimotor experience is different → might learn slower)
- Educate the student on correct alignment (it may not feel "normal", "natural", or "easy" for them)
- Enforce correct alignment (use supportive tools)
- Take extra care and time when recovering from injuries or returning after a break/holiday
- Consider duration and effort of lesson, rehearsal, performance, exam, etc.
- Plan for rest and recuperation
- Encourage medical/physiotherapy help

FOR CHILDREN

- Might need to fidget or shift postures
- Notice their exertion/recuperation patterns
- Provide various sitting/standing options
- Might have speech/mouth/jaw/tongue issues
- Writing/typing/speech-to-text options
- Have a "pain plan"



RESOURCE LIST

- British Association for the Performing Arts Medicine (BAPAM) hypermobility infographic (Lucie Rayner): https://www.bapam.org.uk/hypermobility-in-instrumental-musicians/
- Dr Jessica Eccles: Twitter <u>@bendybrain</u>
- Links/articles related to hypermobility, anxiety, and neurodivergence:
 - https://www.bsms.ac.uk/about/news/2022/02-02-neurodivergent-people-more-likely-to-experience-pain-due-to-hypermobility.aspx
 - https://www.bsms.ac.uk/about/news/2022/12-01-having-hypermobile-joints-can-increase-the-risk-for-depression-and-anxiety-in-adolescents.aspx
 - https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(16)00427-X/fulltext
 - https://www.cambridge.org/core/journals/european-psychiatry/article/joint-hypermobility-syndrome-and-anxiety-disorder-structural-brain-correlates/CBB3059B441A470795B5867FED5B7A80
 - https://pubmed.ncbi.nlm.nih.gov/35211037/
- Bendy Bodies podcast: https://www.hypermobilitymd.com/bendybodiespodcast
- Certified Movement Analyst and Registered Somatic Movement Educator/Therapist: www.simonemaurermusic.com
- Musician-specific personal training: https://musicstrong.com/

Connect with me!

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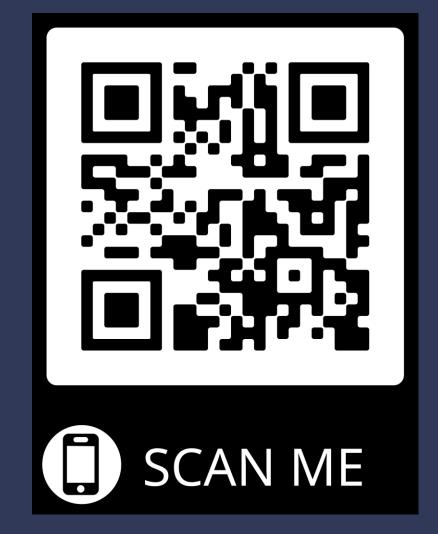
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