move MADE MOVO MADE MOVE **Hypermobility 101** move MADE MOV What is hypermobility? Joint hypermobility refers to increased active or passive movement of a joint beyond its normal range. move MADE MOV Can you have hypermobility without having Hypermobility Spectrum Disorder? Yes, the two can be independent from each other (depending on symptoms). Why is there pain with hypermobility? Current theories emphasize the importance of localized biomechanical overloading and move TO MOV chronic soft tissue injury due to joint laxity and instability. Repetitive microtrauma may lead to altered kinematics, which, in turn, cause overload on other joints and further soft tissue injury manifesting as arthralgias and diffuse musculoskeletal pain What is the difference between joint hypermobility and joint laxity? move MADE MOV Laxity indicates instability, whereas hypermobility denotes an increase in the joint's range of motion beyond normal

# Do you have Generalized Joint Laxity?

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- Can place hands flat on the floor without bending the knees
- Can passively dorsiflex the fifth metacarpophalangeal joint to 90° or greater
- Can oppose the thumb to volar aspect of forearm
- Can hyperextend the elbow 10° or more
- Can hyperextend the knee 10° or more

1 point for first statemenmt and 1 point per statement per hand for the rest

Beighton score /9 -> Does your score meet the criteria below for your age?

- 2 6 for prepubertal children and adolescents.
- ≥ 5 for pubertal men and woman to age 50
- ≥ 4 for men and women over age 50

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If Beighton score is 1 point below age-specific cutoff, yes answer to 2 of the following questions will meet criterion:

- I. Can you now (or ever) place your hands flat on the floor without bending your knees?
- 2. Can you now (or could you ever) bend your thumb to touch your forearm?
- 3. As a child, did you amuse your friends by contorting your body into strange shapes or could you do the splits?
- 4. As a child or teen did your shoulder or kneecap dislocate more than once?

MADE MOVE

5. Do you consider yourself "double jointed"

MADE MOVE

## Do you meet the hypermobile Ehlers-Danlos Syndrome criteria?

### Feature A (5 must be present)

- adolescence, men or prepubertal women without a significant gain or loss of body fat or weight

- Atrophic scarring involving 2+ sites and without the formation of truly papyraceous and/or predisposing condition
- Arachnodactyly, as defined in one or more of the following: (1) positive wrist sign (Walker sign)

- Mitral valve prolapse mild or greater based on strict echocardiographic criteria

Feature B: Positive family history; 1 or more first-degree relatives independently meeting the

#### Feature C (must have at least 1)

- Musculoskeletal pain in 2 or more limbs, recurring daily for at least 3 months

#### Criteria F

- arthritis, etc), additional diagnosis of hEDS requires meeting both features A and B (chronic
- considerations may be based upon history, physical examination, and/or molecular genetics

If joint hypermobility is found, but not the above criteria for hEDS, refer to specialist if concern for other conditions, otherwise diagnose with one of the four subtypes of **Hypermobility Spectrum Disorder** 

(as long as there is one secondary musculoskeletal manifestations)

- General
- · Peripheral for hands and feet only
- Localized for 1 joint or joint group
- Historial for past joint hypermobility that has decreased with age

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