Apply EBP 's 3 Practical Takeaways

From the article: "Designing Exercise to Improve Bone Health Among Individuals With Cerebral **Palsy.**" Gannotti, M. E., Liquori, B. M., Thorpe, D. E., & Fuchs, R. K. (2021). Pediatric Physical Therapy, 33(1), 50-56.

Designing Exercise Programs for Bone Health of Individuals with Cerebral Palsy

Timing: Prepubescence

- Critical period of bone growth
- Gains during prepubescence are sustainable
- Bone health can be impacted across the lifespan, so also consider other periods, such as adolescence

Bone-building activities: Select & combine judiciously

- Match activities with sites targeted for osteogenesis
- Match activities with the child's abilities (e.g., GMFCS level)
- Include plyometrics, dancing, biking, treadmill training, etc. (read article for a list of activities and their osteogenic characteristics)

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Intensity: 100-300 loading cycles, many times a day

- 10-minute bouts (e.g., 100 box jumps, 10-min. punching bag)
- Dynamic loads should be as high as is safe
- 4-8 hours of rest between bouts
- 6 months duration

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