

Know the signs. Fight for victory.

HEALTHY MARFAN LIMITEET & SPINE

PAUL SPONSELLER MD ADAM BITTERMAN DO



TOPICS

Feet

Ankles

Quality of Life

Patients with connective tissue disorders are living longer than ever!

...SO WHAT!?!?!?!

High traffic'd area

Many things active

 Lots of things can go wrong







FOOT & ANKLE

- Frequently flattened arches
- Pes planus
- Elongated digits



BITTERMAN SHOEWEAR PEARLS

- Shoes with low heels
- Well-cushioned soles
- Stiff soles
- Broad toe boxes
- Sponge wedges --> first web space
- Custom-molded orthotic appliances
 - Resist foot pronation
 - Control hindfoot







FOOT & ANKLE

- Scant research on reconstruction vs. fusion
- Augmentation



ANKLE

- "Loose ankles"
- Give out
- Primary tissue repair vs. reinforcement / cadaver





QUALITY OF LIFE

Endurance Strength Fatigue Pain GI **Oral Health Athletic Restrictions Cosmetic concerns Psychiatric Pregnancy**



PAIN

- Many theories on the true cause
- Musculoskeleatal
 - Scoliosis
 - •TGF-β & cytokines
 - •Dural ectasia
 - •Degenerative arthritis from deformity (foot/ankle)



QUALITY OF LIFE

Rao, Sponseller 2016 J Surg Orthop Adv

- 230 patients
- Top concerns cardiac, back pain, and fatigue
- Clinical manifestations differ amongst individuals → different symptoms
- Quality of life < US Norms
- Most severe pain 25-45

FATIGUE

- Limits for social interactions
- Inability to function in workplace
- Compounds feelings of depression and anxiety
- Inability to cope with daily activities
- Modification of daily activities



ATHLETIC PARTICIPATION

- Interaction with others
- Mental well-being
- Approach with CAUTION
- No one size fits all
- Individual approach to all



ATHLETIC PARTICIPATION

- Monitor HR
- SBP
- No exertional activities
- Adjust
- No general consensus
- Contact sports







SUMMARY

- 1. We all must be on the lookout! Everyone!
- 2. All Specialties!
- 3. All shapes and sizes
- 4. Catastrophic consequences if unrecognized
- 5. Multi-disciplinary approach
- 6. Early recognition
- 7. Early treatment
- 8. Equivalent life span!
- 9. Improve quality of life





Thank You!

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