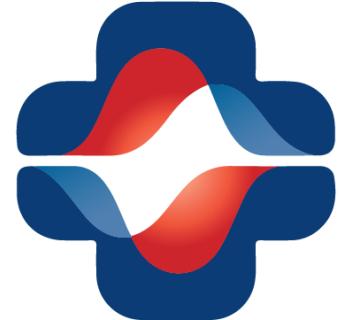


ESF projekt UP.03.3.1.04.0020

REGIONALNI CENTAR KOMPETENTNOSTI MLINARSKA



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Mlinarska

UTJECAJ TERMOMINERALNE VODE NA SMANJENJE DEFORMACIJA
KRALJEŽNICE KOD DJECE ŠKOLSKOG UZRASTA

PROGRAM STRUČNOG USAVRŠAVANJA ZDRAVSTVENIH DJELATNIKA

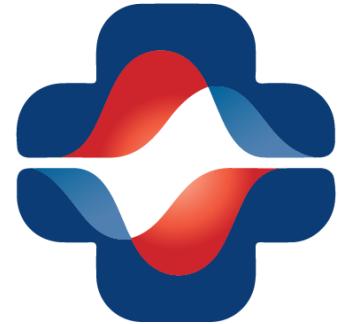
Kifoze i lordoze

Marko Babić

Srednja škola Topusko



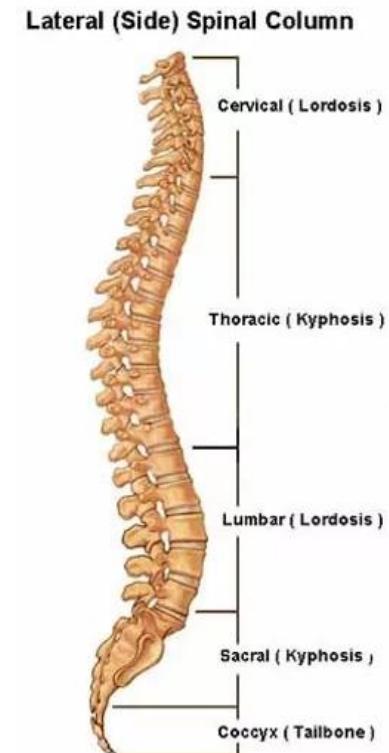
Projekt je sufinancirala Europska unija iz Europskog socijalnog fonda.

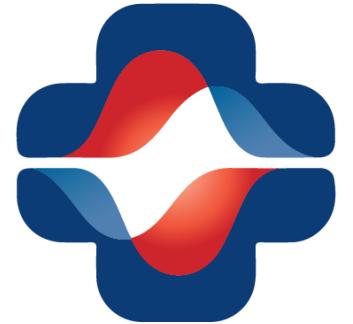


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1. Fiziološka kifoza

- Prisutna u prsnom (torakalnom) i križnom (sakralnom) dijelu kralježnice
- Normalno iznosi 20-40°
- <https://www.youtube.com/watch?v=DOi24AH5yiE>

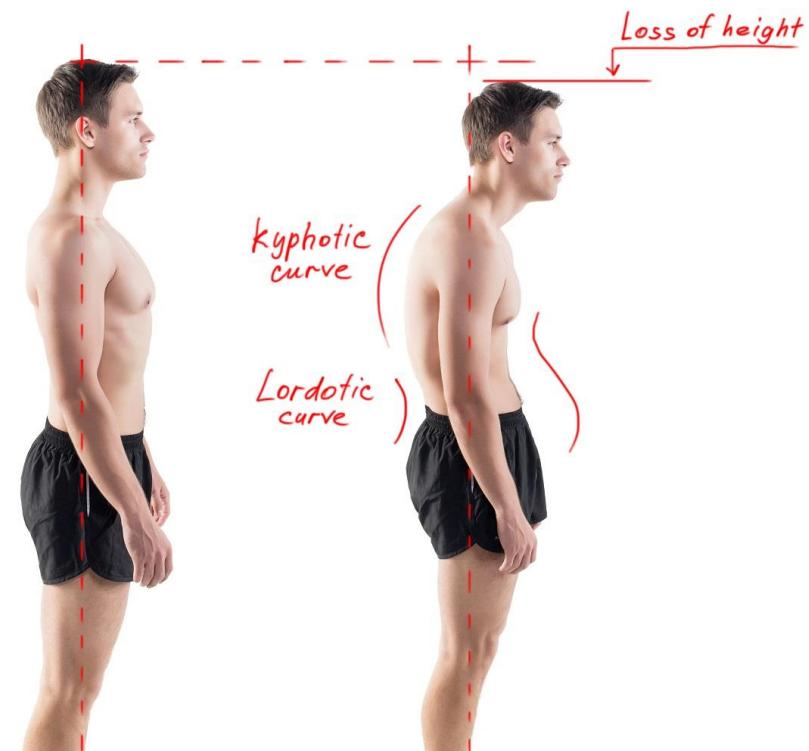


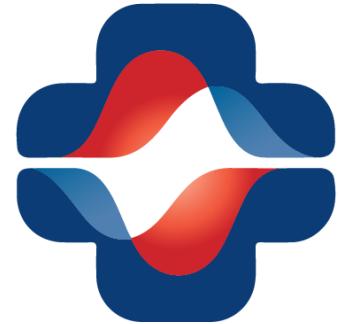


2. Deformatitet- kifoza

- Sagitalna ravnina
- Povećanje konveksiteta prema straga
- $> 40^\circ$

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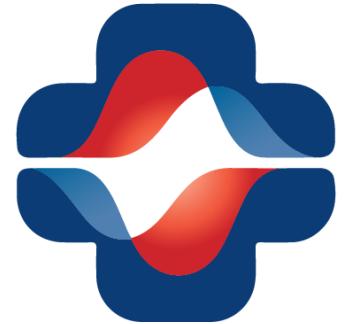


3. Uzroci- strukturalni

- Kongenitalne (prirodjene)
- Scheurmanove bolesti
- Koštane displazije
- Osteoporozna
- Posttraumatske
- Infekcije i tumori
- Reumatske bolesti

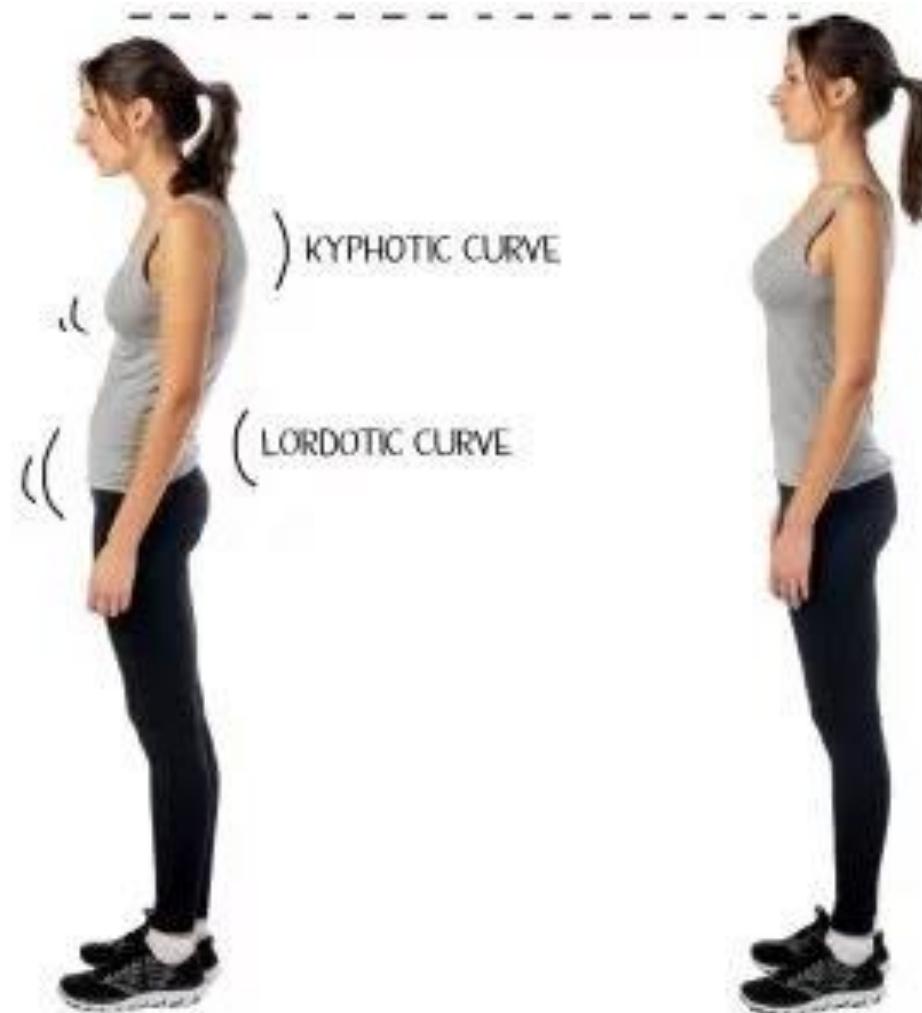


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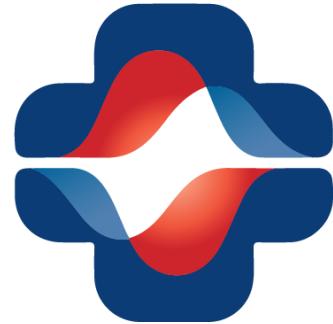


Uzroci- nestrukturalne

- Kifotično držanje

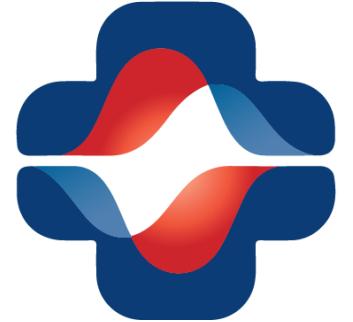


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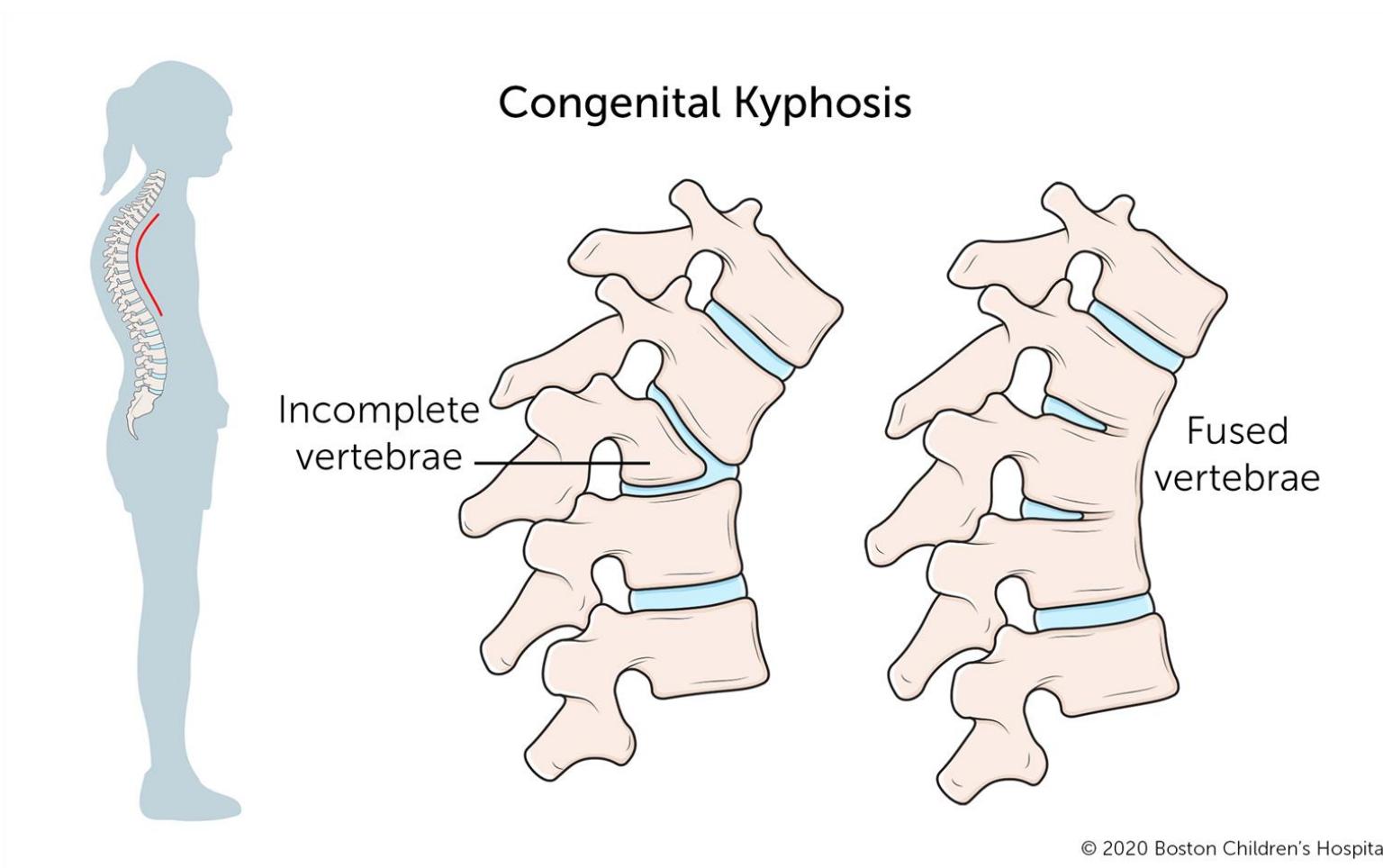


4. Klinička slika

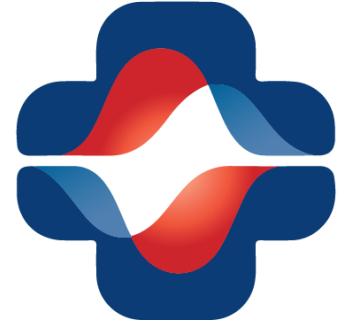
- Konveksitet lučnog oblika ili pod oštrim kutom
- GIBUS
 - Rođenjem cijela je kralježnica kifotična (položaj fetusa u maternici); kasnije dobiva oblik dvostrukog slova S
 - Deformitet je asimptomatski (u većini slučajeva)
 - Bolovi se pojavljuju nakon većeg opterećenja
 - Najlošiju prognozu imaju *kongenitalne kifoze* (neurološki ispadi)



4. Klinička slika (2)

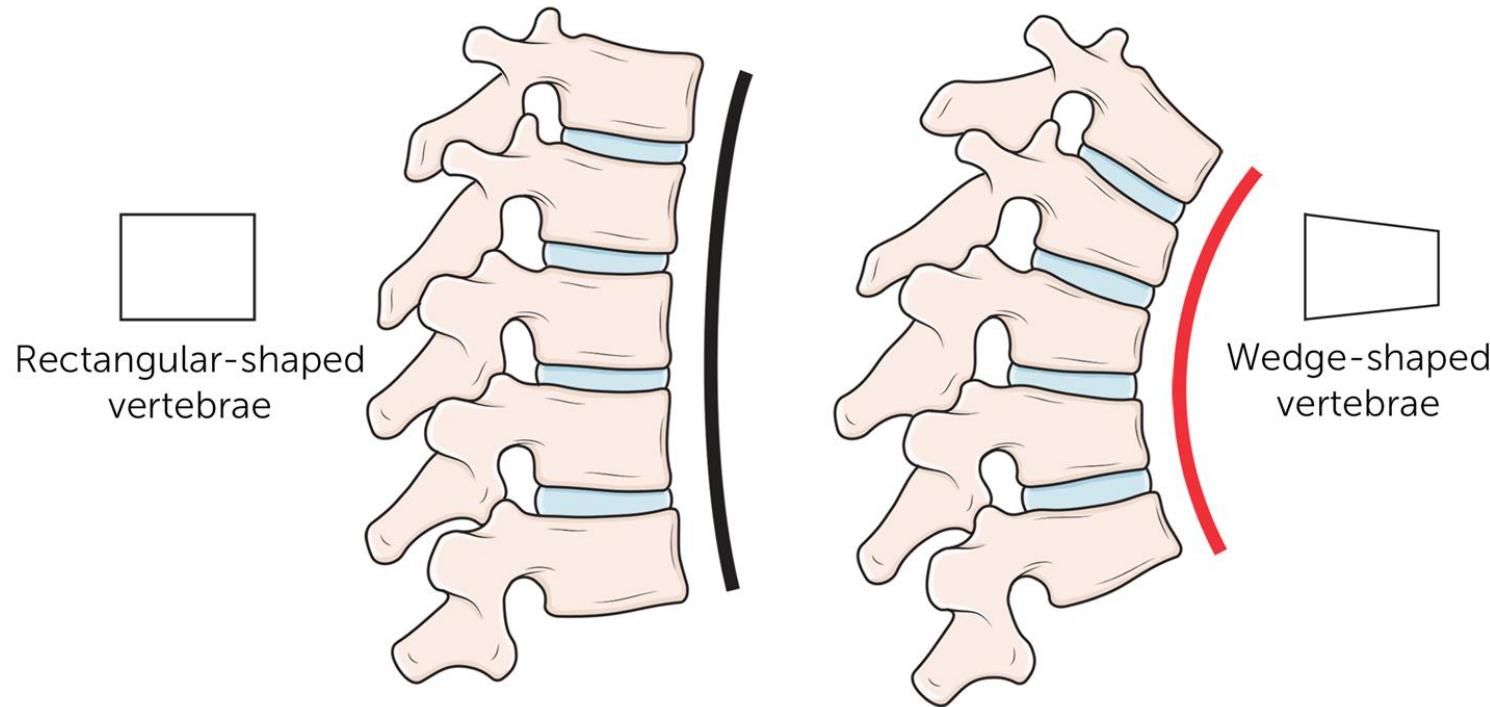


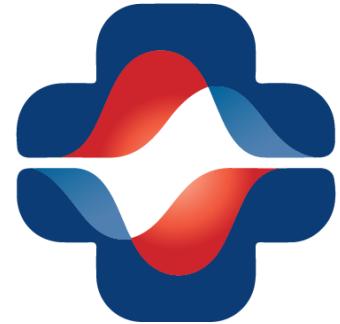
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4. Klinička slika (3)

Scheuermann Kyphosis





5. Dijagnostika kifoze

- Test pretkolona (Adamsov test)
- RTG, MR
- <https://www.youtube.com/watch?v=1EPii3Pz6V0>

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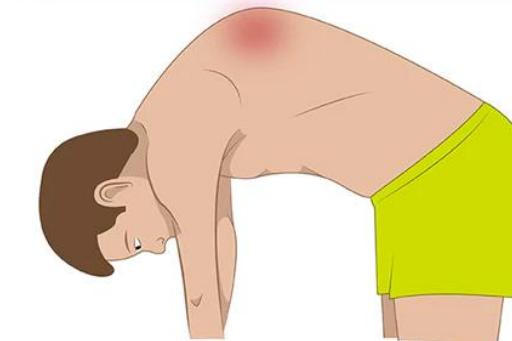
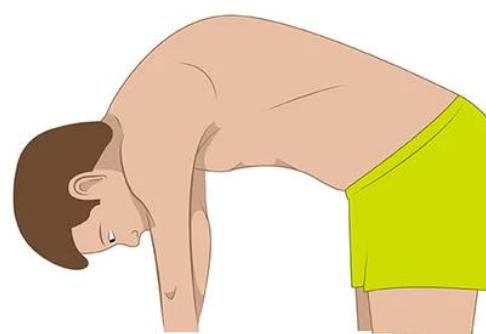
BRACEABILITY

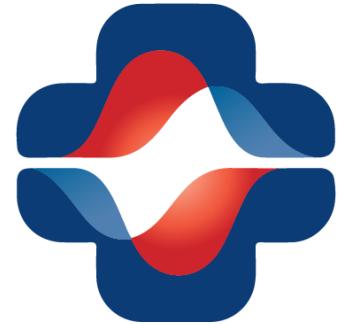
Postural Kyphosis

Excessive curve of the back
rounds when bending

Scheuermann's Kyphosis

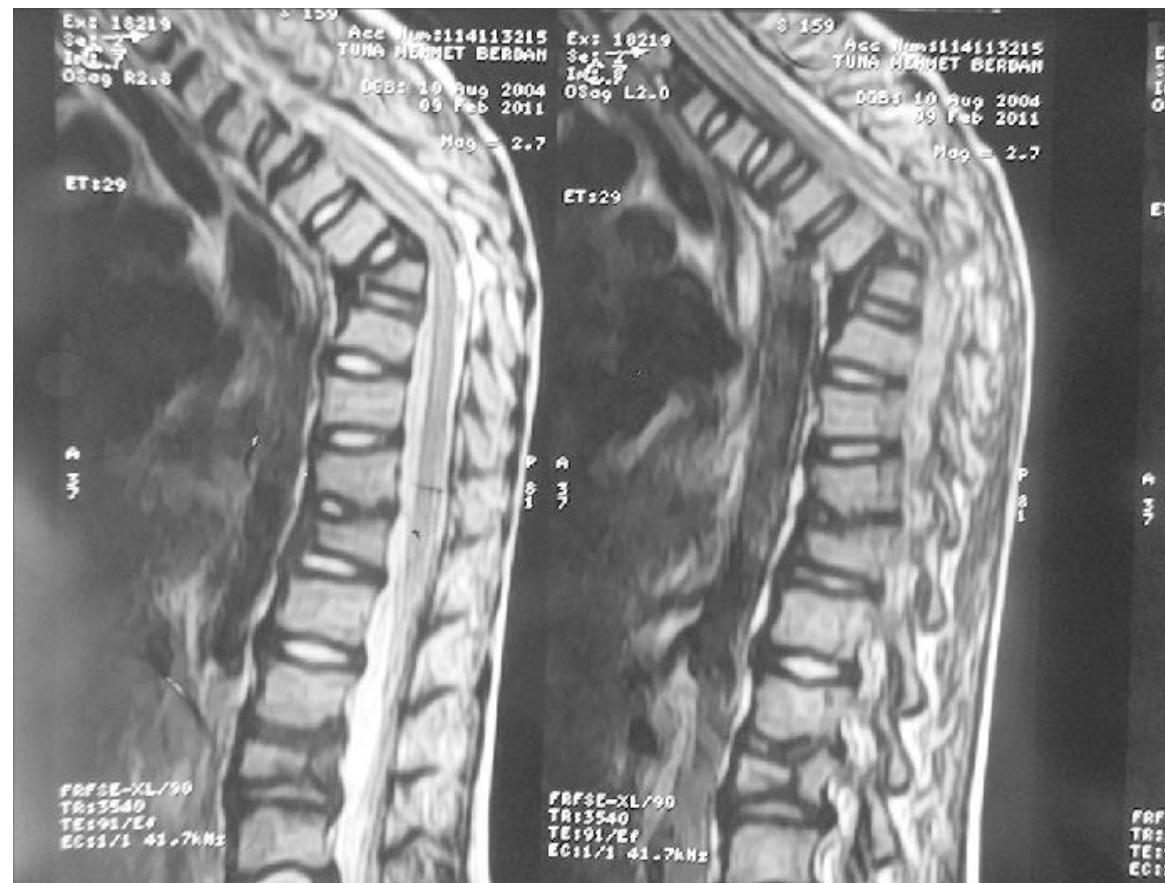
No smoothing of the back occurs
when bending due to structural
changes in the spine





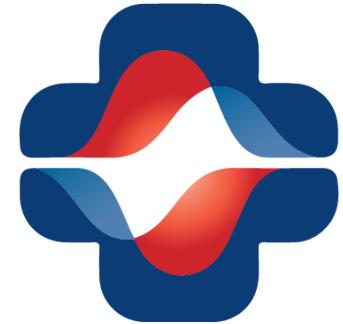
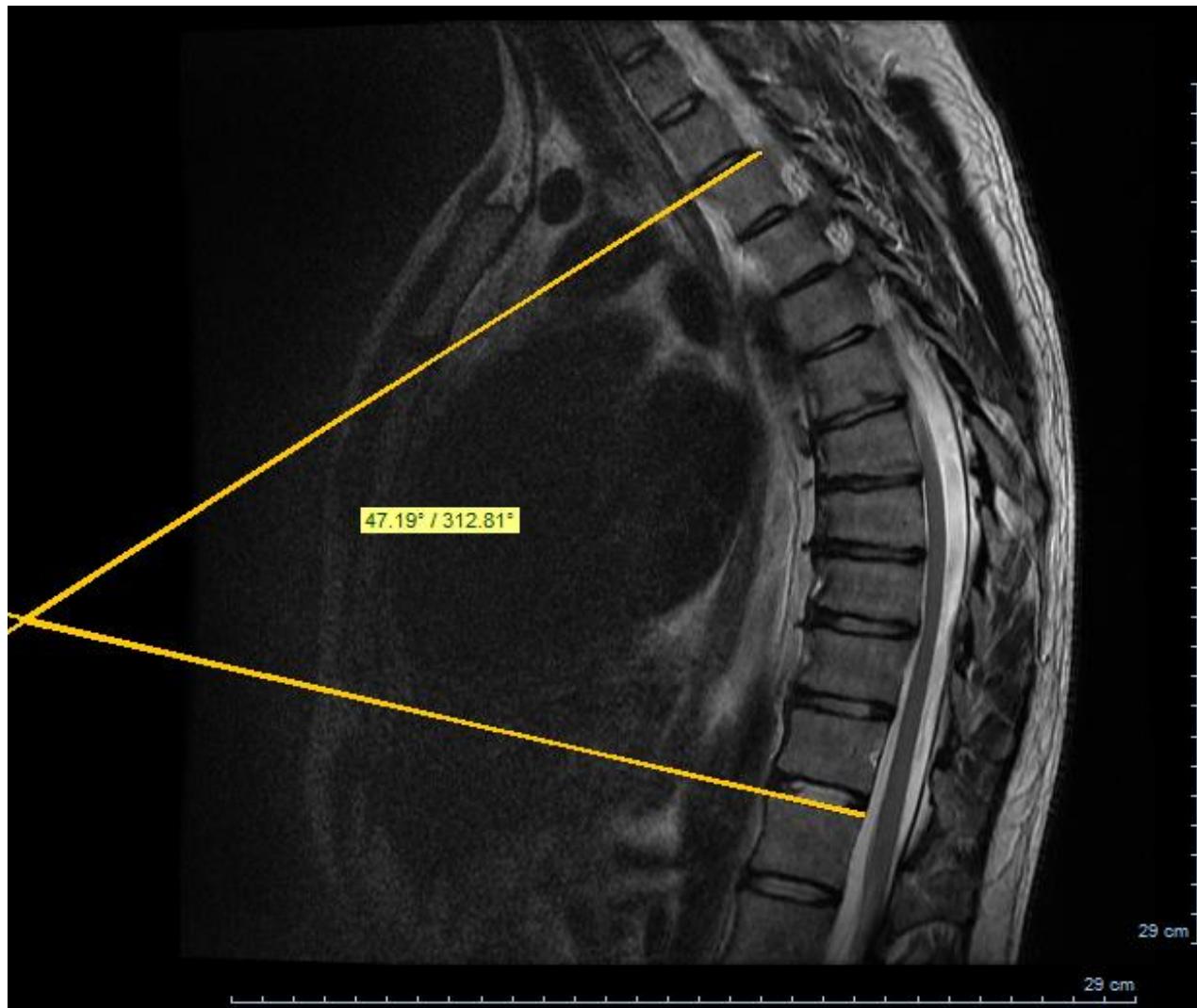
5. Dijagnostika kifoze (2)

- Kifoza na razini Th7- Th 8



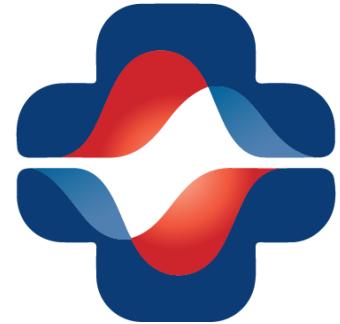
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5. Dijagnostika kifoze (3)

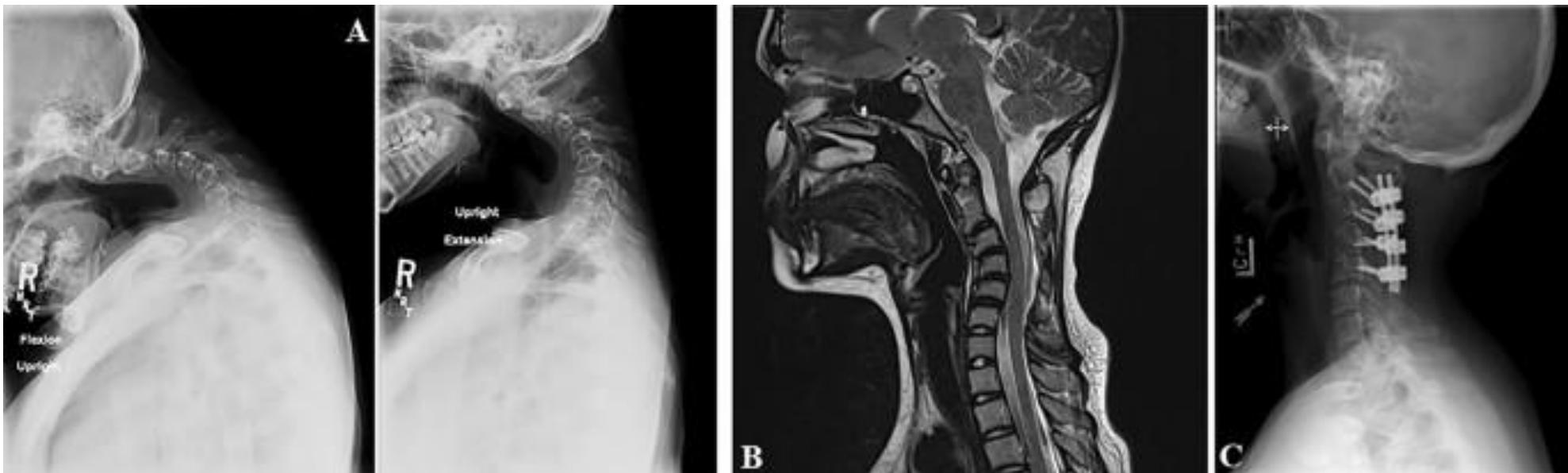


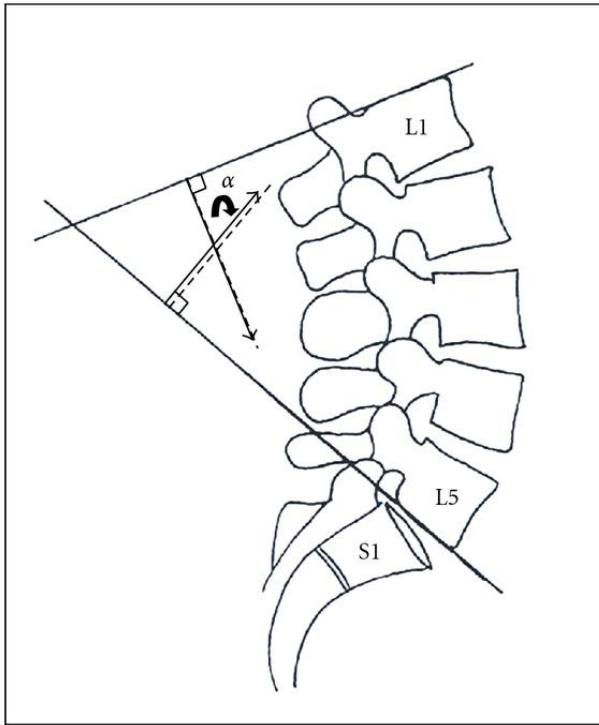
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5. Dijagnostika kifoze (4)

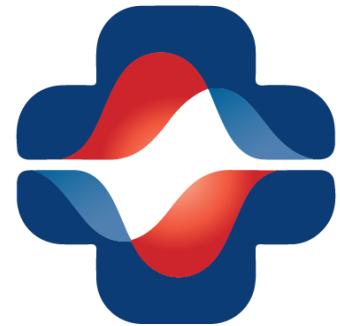


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6. Lordoza

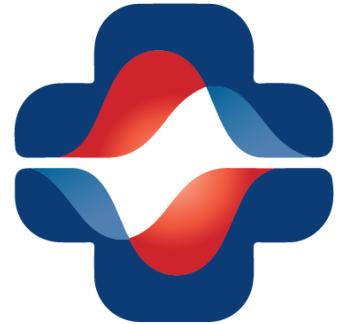


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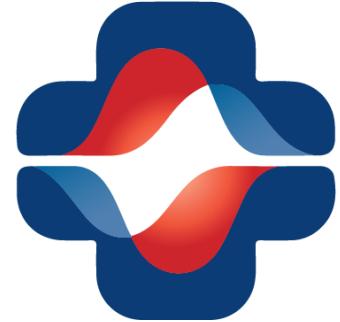
- Fiziološki prisutna u vratnom (cervikalnom) i slabinskom (lumbalnom)
- Mjeri se kutom po Cobbu i sve što je preko 30° smatra se deformitetom

6. Lordoza (2)

- Češće je zahvaćena lumbalna nego cervicalna kralježnica
- Kombinacija s kifozom ili fleksornom kontrakturom kuka



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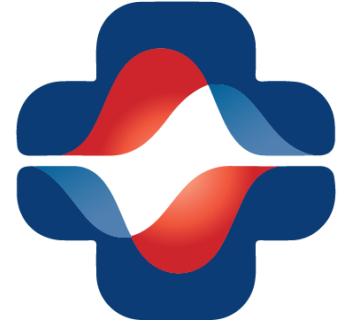


6.1. Karakteristike lordoze

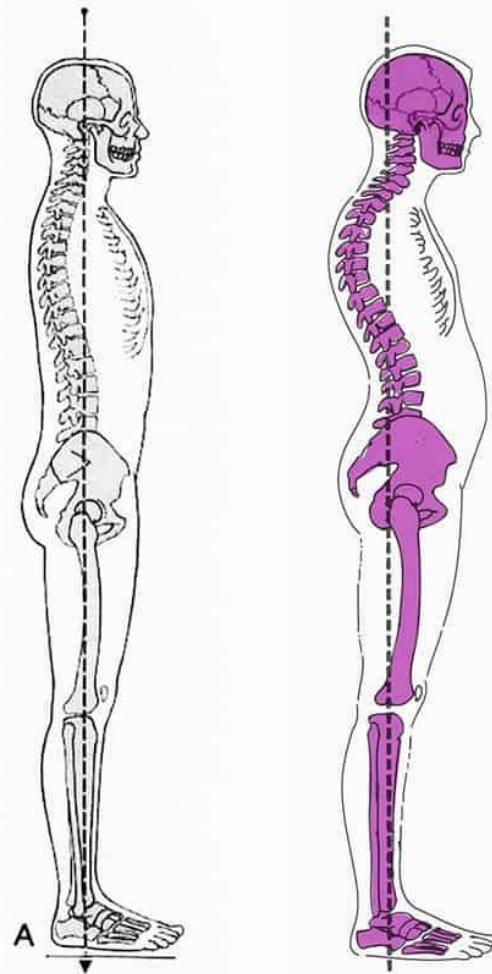
- glava lagano zabačena natrag
- toraks ravan ili izbočen
- pojačana lordotična krivina u lumbalnom dijelu
- zdjelica u inklinaciji
- slaba trbušna muskulatura
- koljena u hiperekstenziji

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6.1. Karakteristike lordoze (2)

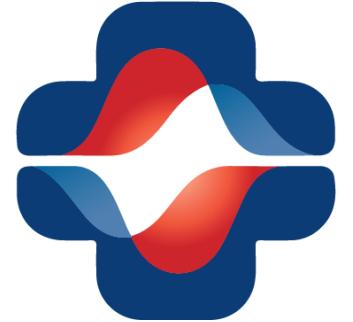


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■ Lordotic Posture

■ Ideal alignment



6.2. Podjela lordoza

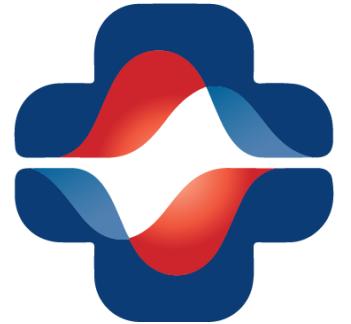
- Prema izgledu koštanih struktura

- Strukturalne
- Funkcionalne

- Prema vremenu nastanka

- Kongenitalne
- Stečene

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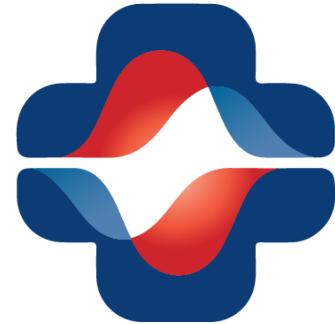
6.3. Dijagnostika lordoze

- Klinički pregled
- MRI + RTG

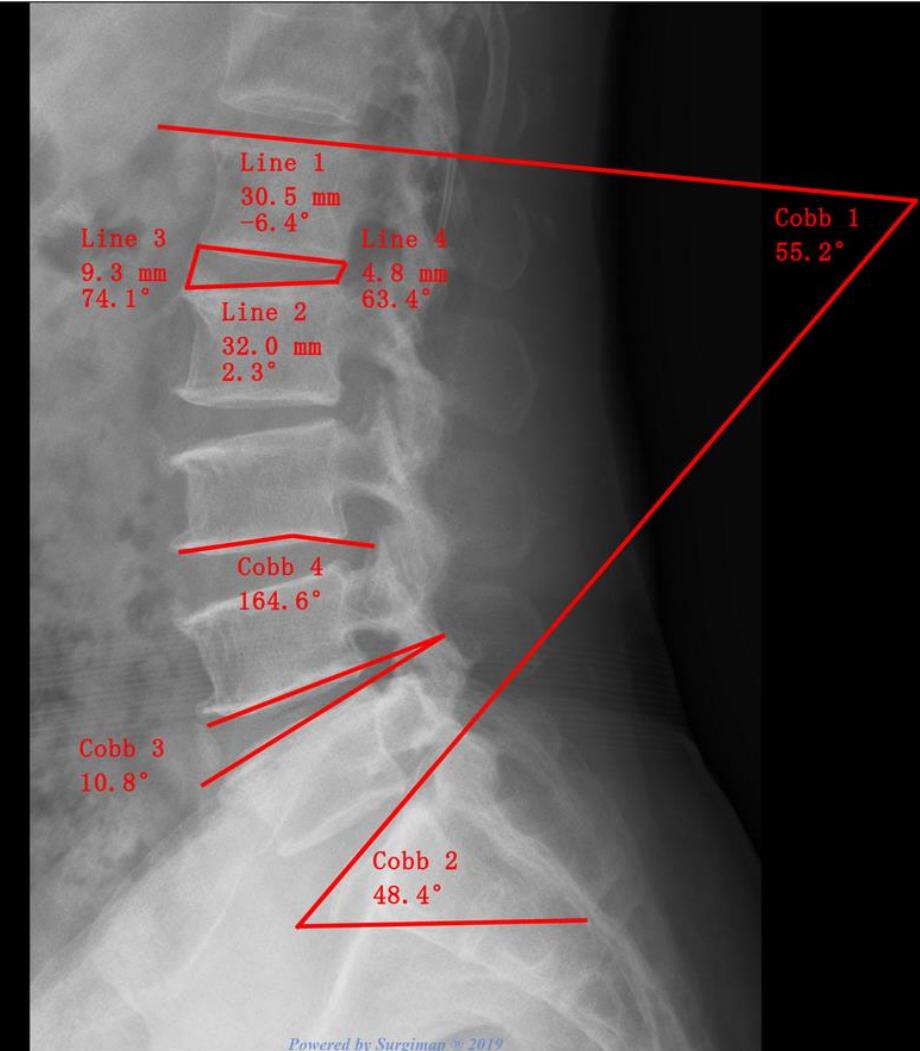


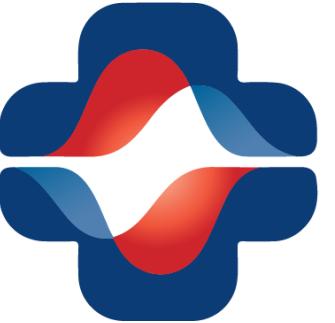
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6.3. Dijagnostika lordoze (2)



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7. Literatura

- 1) Anka Kovačević, Fizioterapija deformacija lokomotornog sustava, Alka script, Zagreb 2013.
- 2) Kosinac Z., Kineziterapija sustava za kretanje, Udruga za šport i rekreaciju dece i mladeži grada Splita, Split 2002.
- 3) https://www.physio-pedia.com/index.php?title=Thoracic_Hyperkyphosis&redirect=no%3Futm_source%3Dphysiopedia&utm_medium=search&utm_campaign=ongoing_internal, pristupljeno 19.lipnja 2022.
- 4) Ivo Jajić, Zrinka Jajić i suradnici, Fizikalna i rehabilitacijska medicina, Medicinska naklada, Zagreb 2008.