

Uniklinik Balgrist 9.9.11

Fabian Krause Department of Orthopaedic Surgery, University of Berne, Lanc Surgery, L Inselspital September 9th, UNIKLIN

The clinical approach to the

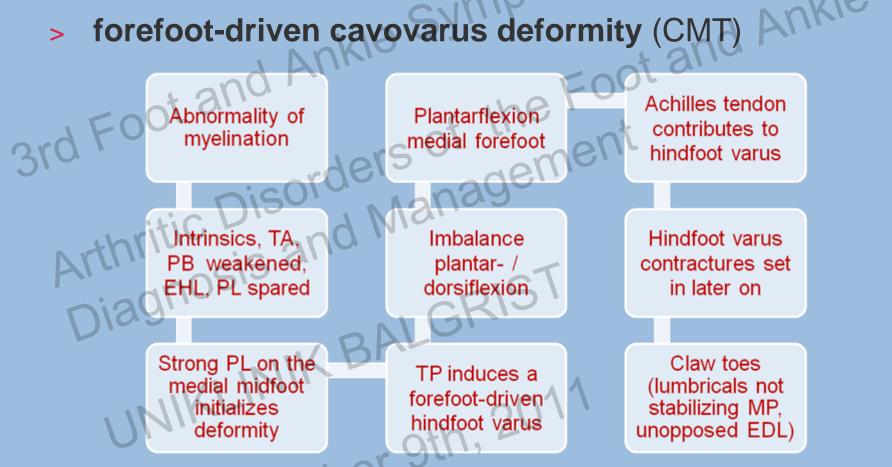


-yy Ankle Symposium Foot and Ankle F UNIKLINIK BALGRIST



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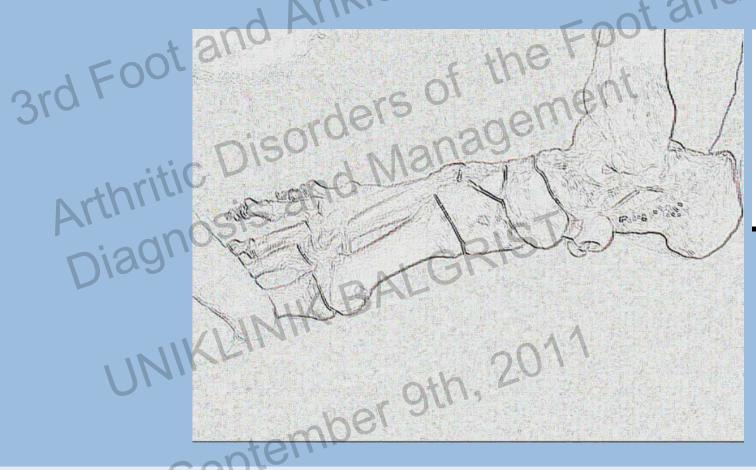


Mann RA, Missirian J. Clin Orthop Rel Res 1988;234:221-228. Beals TC, Nickisch F. Foot Ankle Clin N Am 2008;13:259-274.



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> Biomechanics (forefoot-driven cavovarus deformity)





Biomechanics (hindfoot-driven cavovarus deformity >

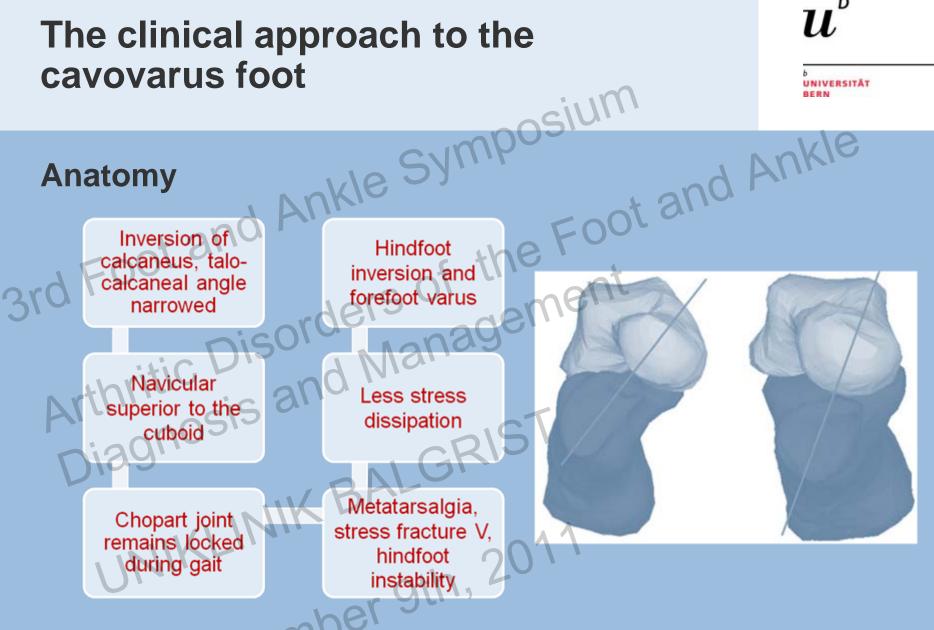
- models:
 - varus and curved posterior calcaneal facet and internal rotation of subtalar joint

of the

- -> motor imbalance before skeletal maturation may lead to substantial change in healthy bone morphology
- calcaneal inversion leads to inversion of lateral column and 1st ray elevation
- adaptive morphology: plantarflexion of the 1st ray, adduction of TN-joint (forefoot) 20

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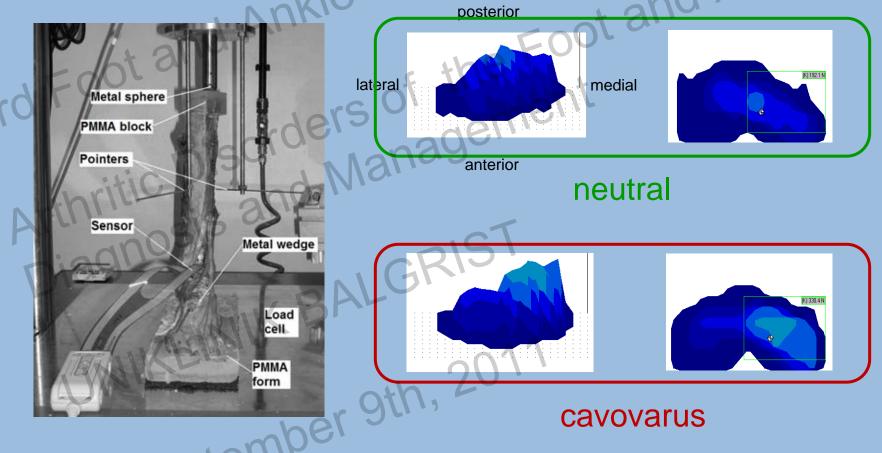
Arminian A, Sangeorzan BJ. Foot Ankle Clin N Am 2008;13:191-198



Arminian A, Sangeorzan BJ. Foot Ankle Clin N Am 2008;13:191-198

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> Biomechanics (ankle joint pressure in pes cavovarus)



Krause F, Windolf M, Schwieger K, Weber M. J Bone Joint Surg Br. 2007;89:1660-5



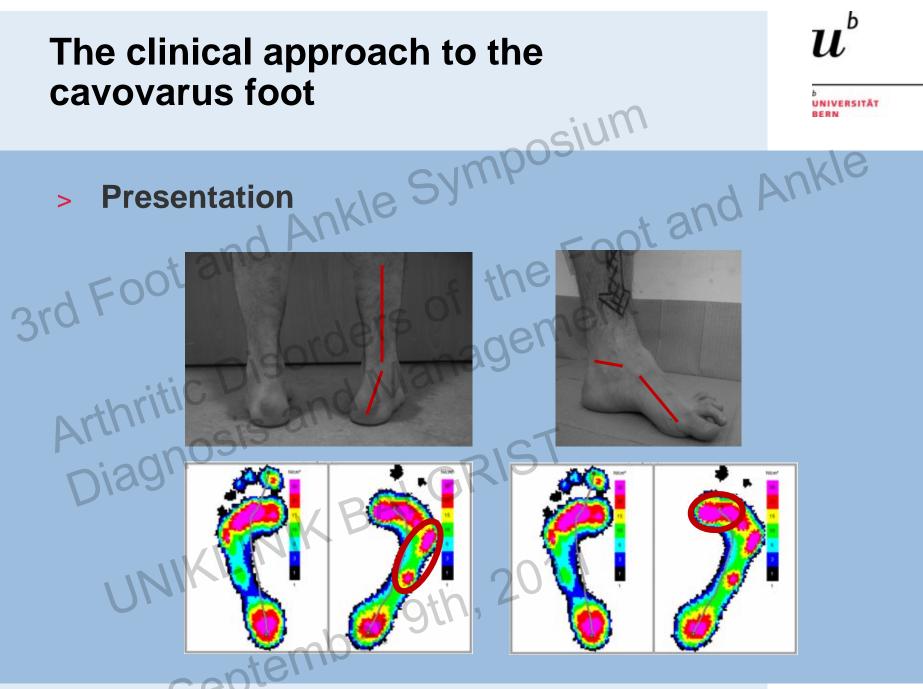
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Presentation (anteromedial ankle arthritis) the Foot and Ankle >











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- Radiographs narrow, almost parallel talo-calcaneal O Inedially concave talo-1st meta — fractures of the fifth metatarsal

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WEIGHT BEARING

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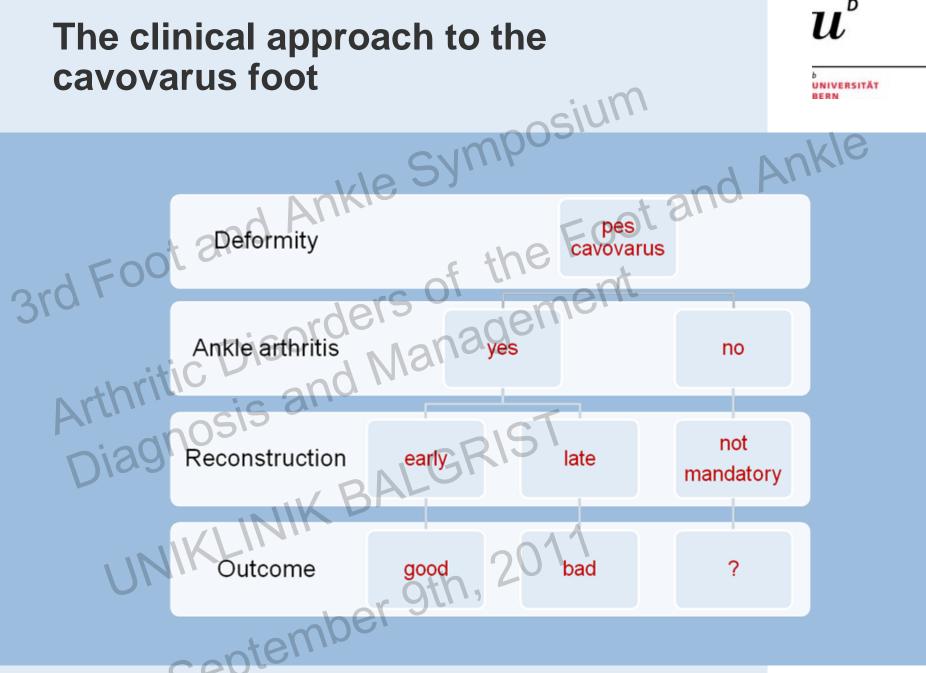
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UNIVERSITÄT the Foot and Ankle Ankle the Foot and Ankle

- Radiographs Ankle Symposium posterior pool
 - increased navicular height
 - calcaneal pitch > 30°
 - Hibbs angle > 45°
 - increased Meary angle

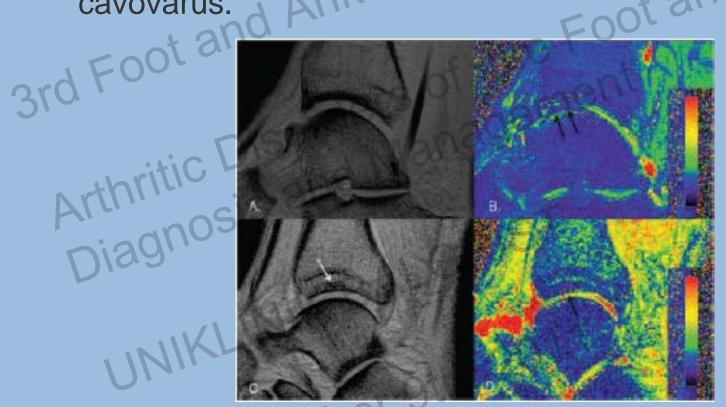
- "flat-topped" talus
- open sinus tarsi UNIKLINIKB



3rd Foot and Ankle Symposium, Uniklinik Balgrist

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 Biochemical T2* MR guantification of ankle arthritis in pes cavovarus.



Krause F, Klammer G, Benneker L, Werlen S, Mamisch T, Weber M. J Orthop Res. 2010; 28:1562-8

The clinical approach to the cavovarus foot ot and Ankle Symposium

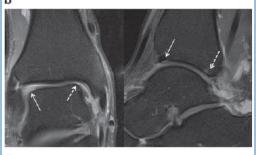


Conclusion

association of pes cavovarus and ankle arthritis with or without hindfoot instability for good postoperative outcome early detection of cartilage wear crucial

understanding anatomy and biomechanics is the key to successful treatment ember 9th, 2011







Thank you! fabian.krause@insel.ch