

“Venogram and foot balance“

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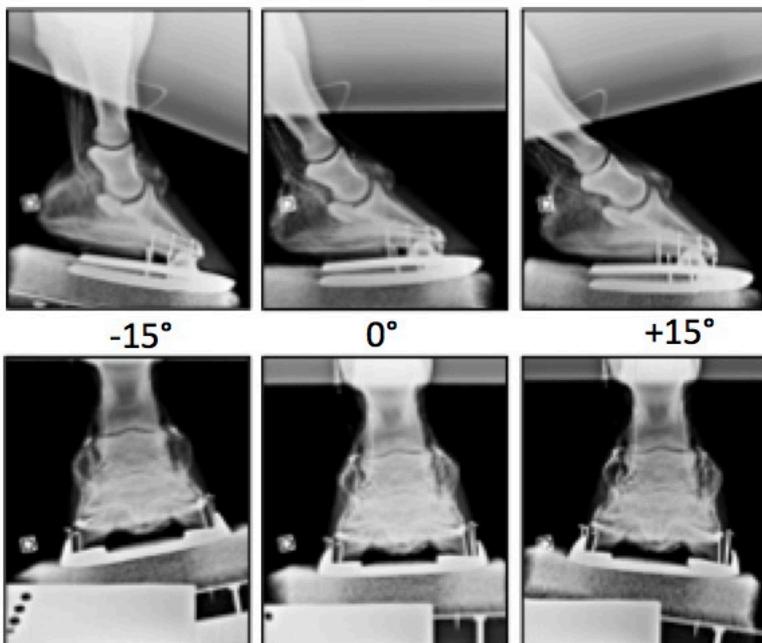
- Introduction

The Latero-Medial Unbalance is always been an obvious pathology and in my opinion underestimated and with large debate, but few focused research despite its potential role. The Tsquare has commonly been the basic education for every farrier and podiatrist and the TDL has been an evolution described by D. Leveillard and the H.Castelijns extension device are nowadays commonly used by vets and farriers in evaluating lameness. As an expert of venogram I have tried to explore what are the results using this technique in the field of Latero-Medial Unbalance trying to visualize immediate vascular changes.

- Materials and method

We have used the D'Arpe-Moreau Podoblock to induce an immediate controlled unbalance and provide passive flexo-extension as already described in previous articles and book chapters; furthermore similarly we have induced latero medial angles of ad-abflexion in 3feet standing posture and observed the resulting images with a unusual prolonged to 5 minutes venogram on a pain free showjumping horse 13 years old with a previous old hystory of navicular syndrome or better Solear traumatic Coriumitis.^{[1][2]}

- results ^{[1][2]}



- discussion ^{[1][2]}

Results show an immediate impact on venous coronary plexus medially and laterally that jumpstart to an expert and even a not expert eye that a prolonged compression due to an unbalance for trimming or shoeing induce a stasis of venous plexus that can potentially lead to a really pathological an painful Coriumosis in a few days or weeks. In my experience this can explain why in high damage laminar coriumitis cases the latero-medial unbalance can lead to a necrosis of the corium for prolonged compression of vessels and cause collapse of the coronary bend, but also I suppose that this prolonged compression can cause pain also in a healthy foot with prolonged compression due to a latero-Medial Unbalance.

- Conclusion

This preliminary experience shows how the Latero-Medial unbalance can induce immediately major foot compression of the coronary plexus that can potentially lead to foot vascular problems in a few days or weeks or months.

References:

D. Leveillard - équi-meeting maréchalerie 2013 - Le parage physiologique

H. Castelijns "A Digital Extension Device for extension test in lameness examinations", The Farriers Journal no. 6 February 2004

D'Arpe L. "Relationships between the Palmar Angle and Venography", Infor Mascalcia- Marechalerie - The Farriers Journal - Der Huf- El Herrador, n° 105, pag. 8-22.

D'Arpe and Bernardini Aug. '10 Veterinary Clinics of North America, equine practice, Advances in Laminitis, part II, guest editor Pollitt C.C. August 2010, 26:2, 339-359.

L. D'Arpe, M. Andrietti, N. Romagnoli, A. Spadari; *"In vivo study of equine distal forelimb digital flexor tendons quasi-static biomechanical response to passive palmar angle modification"*; Proceedings of the 42èmes journées annuelles de l'AVEF (Association Veterinaire Equine Francais), Pau (F), Octobre 2014.

D'Arpe L. "Comment activer la vascularisation grâce à la maréchalerie pour dynamiser la production de la sole", Séminaire de Formation, at University of Lyon, Vet Agro Sup, Marcy l'Etoile (F).