

Metabone and Digital Fractures

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Acknowledgments

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Objectives

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- Review anatomy of the metabones and digits
- Discuss metabone and digit injury types
- Understand metabone and digit treatment options



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Metabone Intramedullary pins

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- Reverse normograde insertion
- Dowel pinning
- Spider fixator (not discussed)



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Metabone Reverse Normograde

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- Trough for pin insertion
- Avoids articular damage
- Difficult in toy breeds
- Difficult in young animals
- Soft bone



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Metabone Dowel Pinning

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- Ream canal with K-wire
 - Proximal and distal segments
- Cut pin to length
- Insert pin in longer segment first
- Distract fracture and insert pin end in shorter segment

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Metabone Fracture Decision Making

- Number of bones fractured
- Fracture pattern
 - Comminuted vs. simple
- Amount of displacement
- Number of bones to stabilize?
 - 3 & 4



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Digital Fractures



- Common traumatic injury in athletes
- Variable lameness
 - None to severe
- Toe swelling
- ALWAYS PALPATE THE TOES WITH AN ACUTE LAMENESS!!

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Phalangeal Fx Treatment

- Digit(s) affected
- Conservative management
 - Splint or orthotic
- Healing time
 - 6-12 weeks



"Buddy Taping"



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Courtesy of Steve Peterson

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Digital Fracture Stabilization

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- IM Pin
- K-wire or small pin
- Rotational instability
- Bone plating
- Comminuted fractures
- Active dogs
- Size limitations





Questions

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