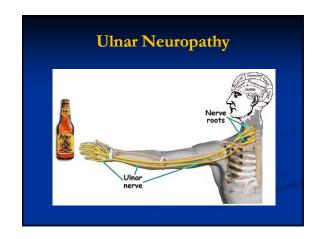


Nerve Injury

- Variable rate of recovery
- Amount and duration of compression (ischemia) determine degree of injury
- Remyelination must occur
 - →Hours to weeks to months (12 weeks)
 - →No ongoing compression



Ulnar Neuropathy

- "Cyclists' or handlebar palsy"
- Prolonged grip pressure or wrist hyperextension
- *Sensory: numbness/tingling in ring, little finger
- Motor: weakness in hand

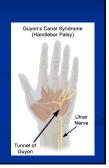




Ulnar Neuropathy

- Nerve compression at wrist
- Deep and superficial branches





Ulnar Neuropathy

- Bicycle fit: wrist position
 - Avoid hyperextension
 - Less weight on handlebars
- Padded gloves and handlebar tape
- Change hand position frequently

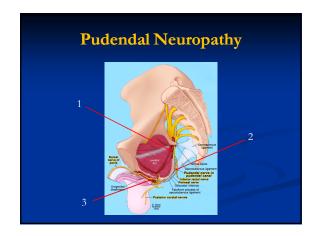


Median Neuropathy

- Less common
- Carpal Tunnel

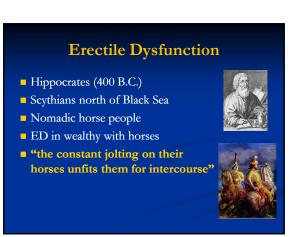






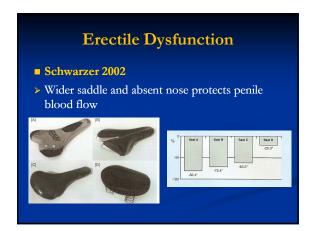
Pudendal (Bikeseat) Neuropathy Neurovascular compression Between saddle and pubic symphysis (3) Perineal or genital numbness Women also affected

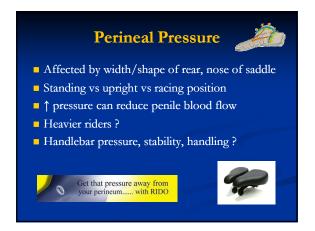
Erectile Dysfunction 1997 Bicycling Magazine article >100,000 permanent ED from cycling Irwin Goldstein, MD: "I cannot say that sitting on a bicycle seat causes impotence. I can't claim that long-term compression causes impotency." "There are two kinds of cyclists: Those who are impotent and those who will be."

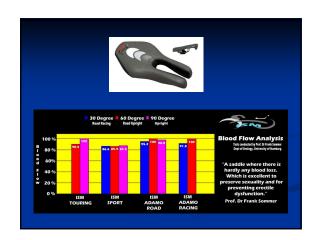


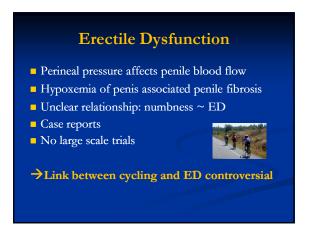
Erectile Dysfunction Taylor 2004 Surveyed 688 cyclists, 18-77 years ED in younger and older cyclists ED prevalence by age group same as gen popn No↑prevalence in cyclists No association with cycling variables Only risk factor was age

Erectile Dysfunction Sommer 2001 40 men, measured tpO₂, seated, standing Seated cycling decreased tpO₂ by two-thirds Interviewed 100 male cyclists 61% reported genital numbness, 17% ED No case of ED without genital numbness but + numbness without ED

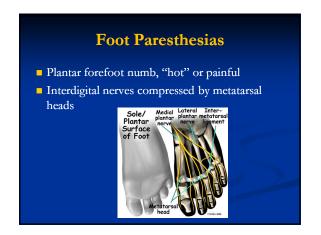








Pudendal Neuropathy Bike fit Saddle angle Saddle height Design of saddle Wider, padded, flexible nose, cutout Out of saddle (20-30 sec/10 min) Padded shorts Short-term cessation (3-10d)



Foot Paresthesias Less pedal pressure Cleat position Pedal platform Shoe tightness Shoe sole Firmness Worn Arch support, metatarsal button





