**Surface Markers for Locating the Pulleys and Flexor Tendon Anatomy in the Palm and Fingers With Reference to Minimally Invasive Incisions**

**Disclosure**

Anatomic Study: None

Case Example Using Pontis Device: Inventor/Owner

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**Finger Incisions**

**Bruner Incision - 1967**

- excellent exposure of all structures
- easy

- wide dissection/swelling/bleeding in the finger
**smaller incisions with less dissection may reduce swelling, bleeding and friction**  
(Tang et al)

**Palm and finger creases as surface markers**

48 fingers in 12 cadaver hands  
all the skin was removed - 2mm of each crease was retained  
caliper -  
1 - measure the location of A1 to A5  
2 - location of flexor anatomy

**Surface Anatomy of flexor system**

FDS and FDP decussation  
Camper pulleys  
location for safe incisions

Where would best incisions or portals be?

4 zones  
each zone divided into thirds
3 months

**Repair through small TIV incision**

- Need a method to pass the tendon through pulleys
- Do the repair with less exposure
- Knowledge of underlying anatomy

**Small or minimal incisions**

1. Do the repair with less exposure
2. Knowledge of underlying anatomy
3. Need a method to pass the tendon through pulleys
Passing the tendon from one area to another

Camper Chiasm