

การพัฒนาเครือข่ายการดูแลบุคคล ออทิสติก จังหวัดขอนแก่น

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การประชุมแลกเปลี่ยนเรียนรู้ จากงานประจำสู่งานวิจัย: R2R เพิ่มคุณค่า พัฒนาคน พัฒนาบริการ ครั้งที่ 2 วันที่ 16 กรกฎาคม 2552



Preliminary Report:

Percutaneous Trigger Finger Release using Korat-Satja1 (KS1) Instrument

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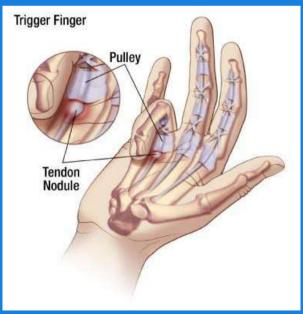


Trigger finger

common

- Green's Classification 4 stage
 - 1. Pre triggering
 - 2. Active
 - 3. Passive
 - 4. Contracture







Treatment

- 1. Conservative: rest, medication, and steroid injection.
- 2. Open release (standard)
- Success rates reported up to 100 %.
- Complications: infection, digital nerve injury, scar tenderness and joint contractures.
- 3. Percutaneous release



Percutaneous release

- Use in outpatient department
- Success rates are over 90 %.*
- Several method using various instruments have been reported, such as needle no. 19 or Push knife.
- Complications are rare but include tendon or digital nerve injury, hematoma, and persistent pain. *



Korat-Satja1 (KS1) Instrument



- Made out of stainless steel, withstanding common sterilization procedures.
- Not to be bend or fail during the release procedure.



Objective:

- To describe a safe and easy percutaneous trigger finger release using KS1 instrument.
- To evaluate the short-term results and possible complications of percutaneous trigger finger release using a KS1 instrument.



Patients and Methods

- Trigger finger
- June 2004 August 2005

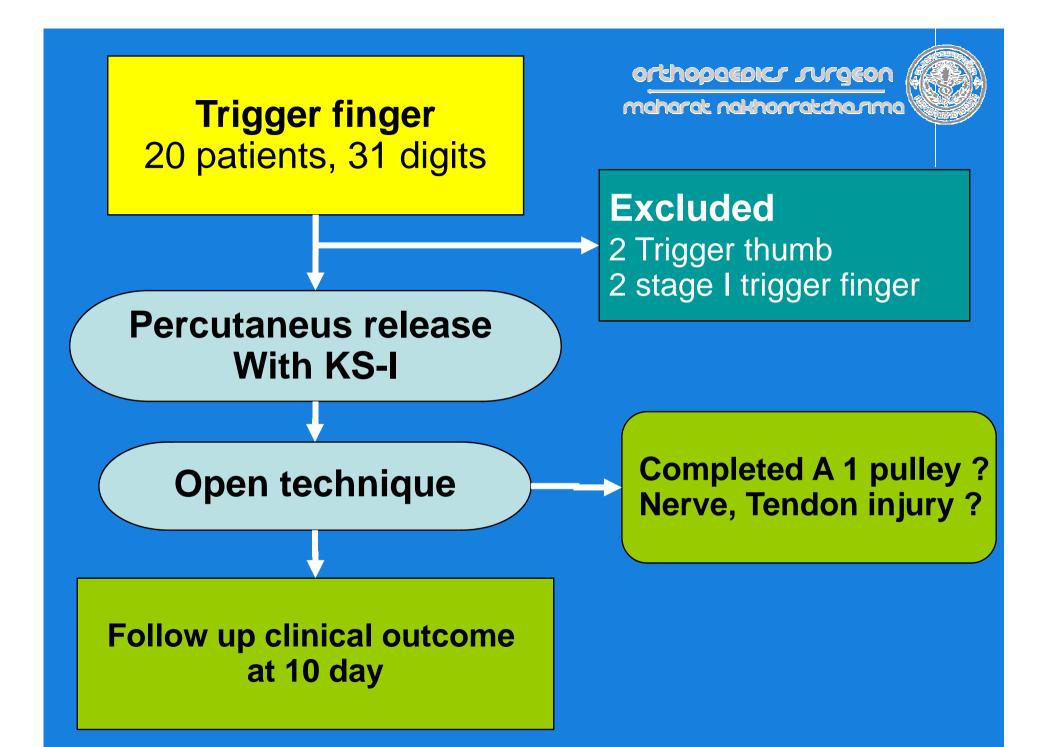
Exclude criteria:

Trigger thumb, rheumatoid, and gout.

Trigger finger stage I, stage IV

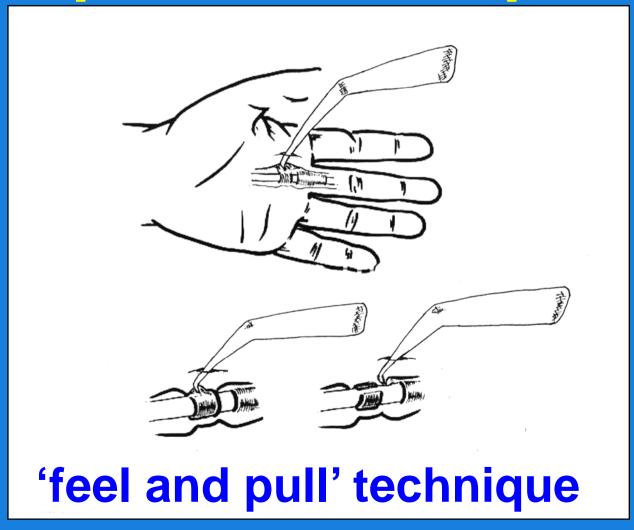
Approved by ethics committee







Operative Technique

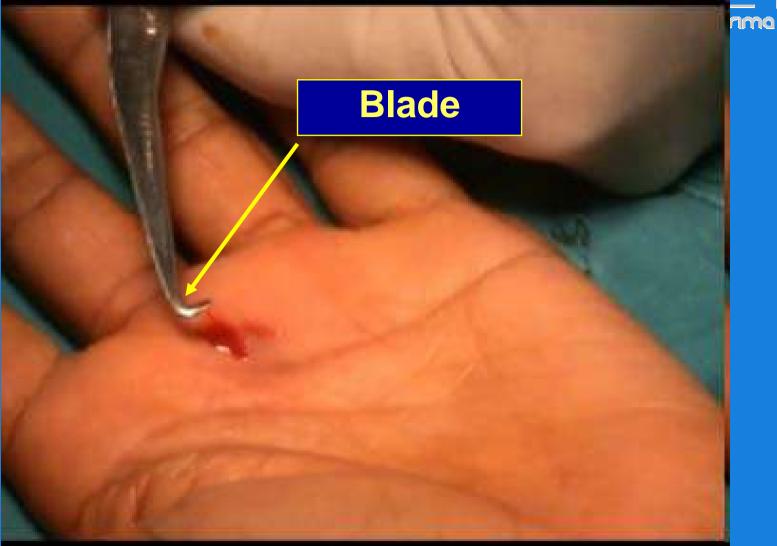






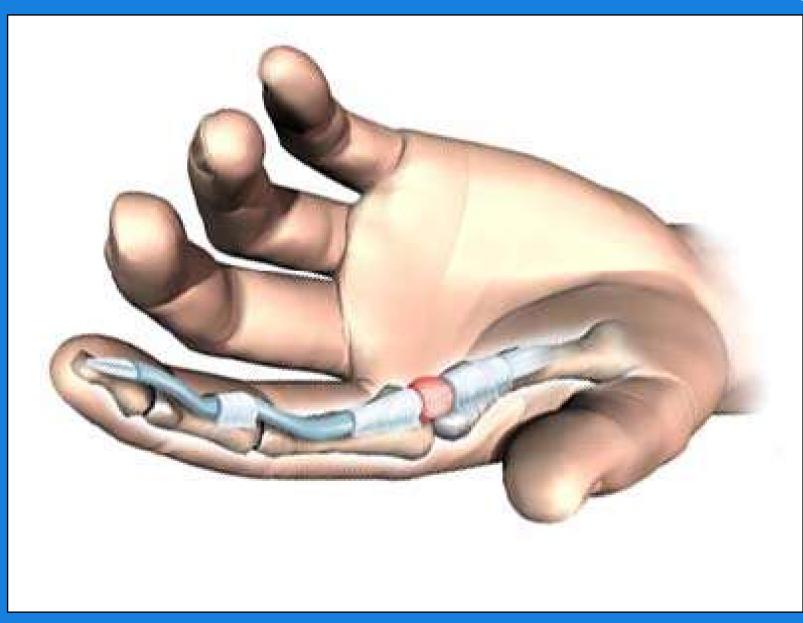


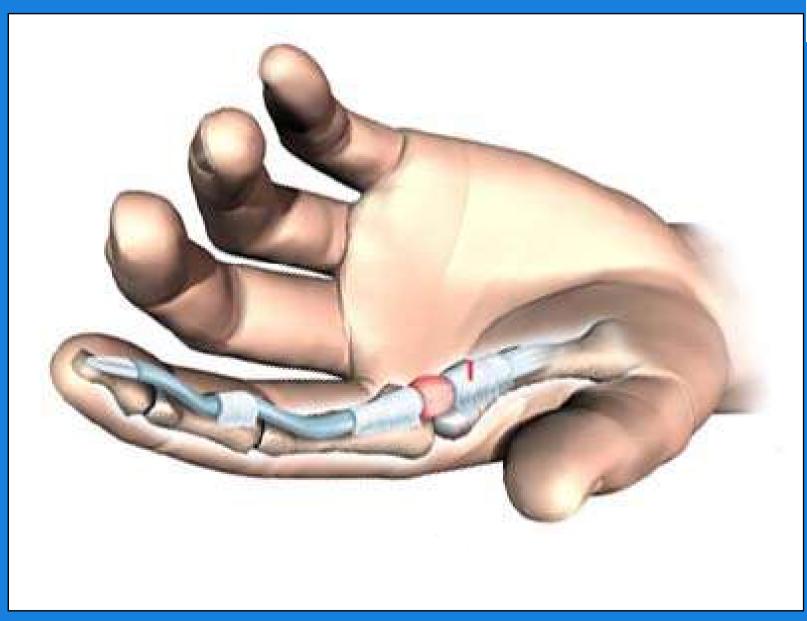
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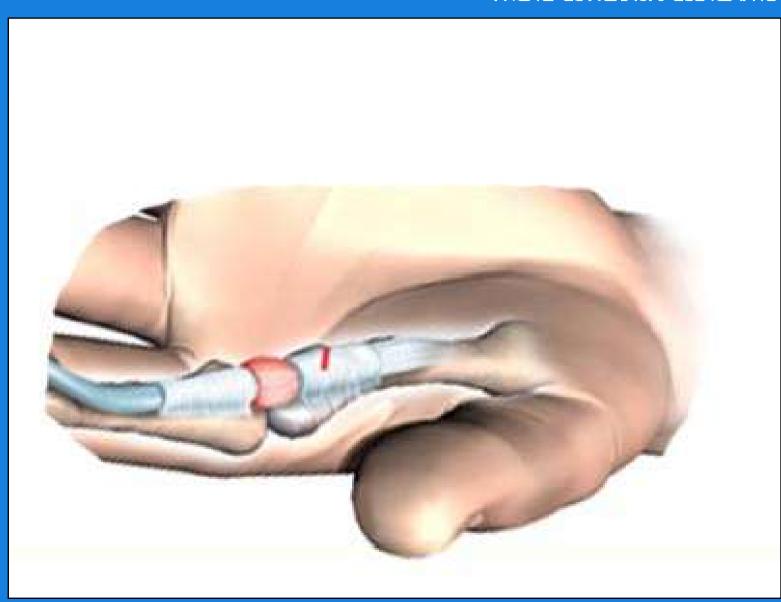


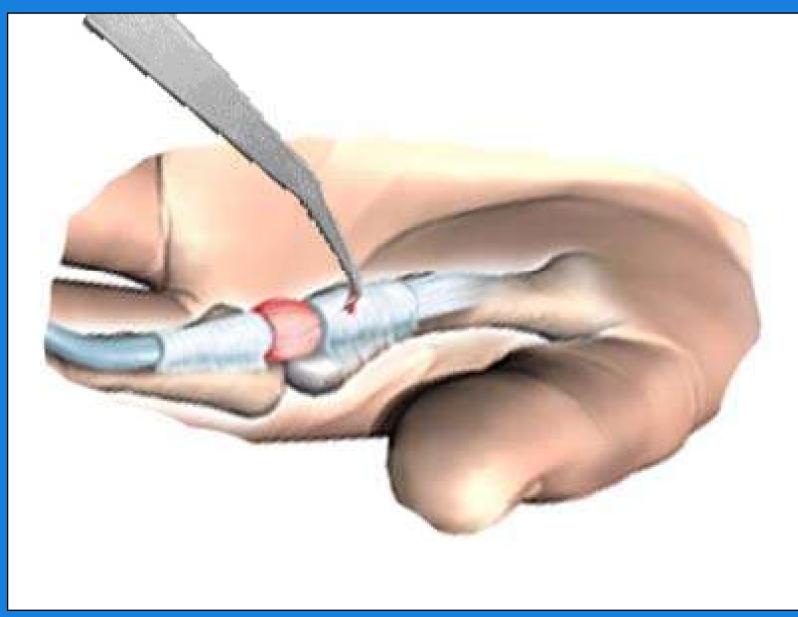
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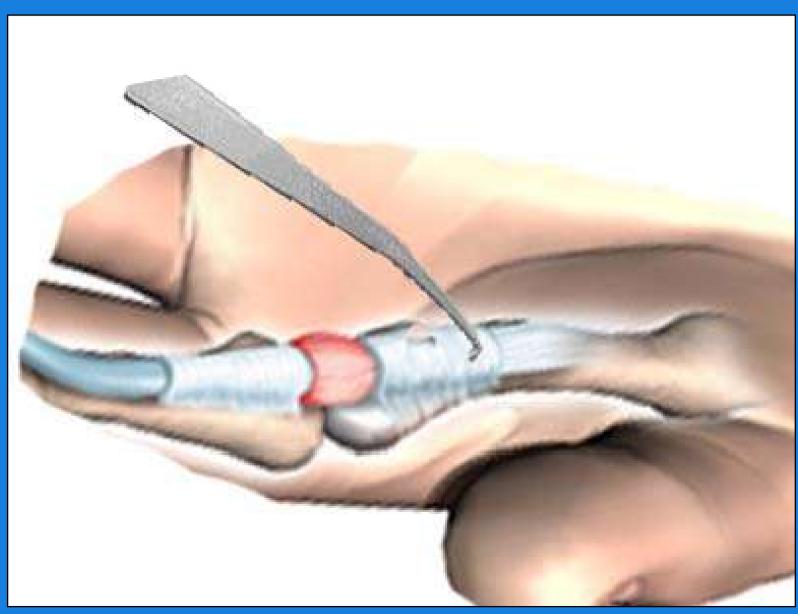


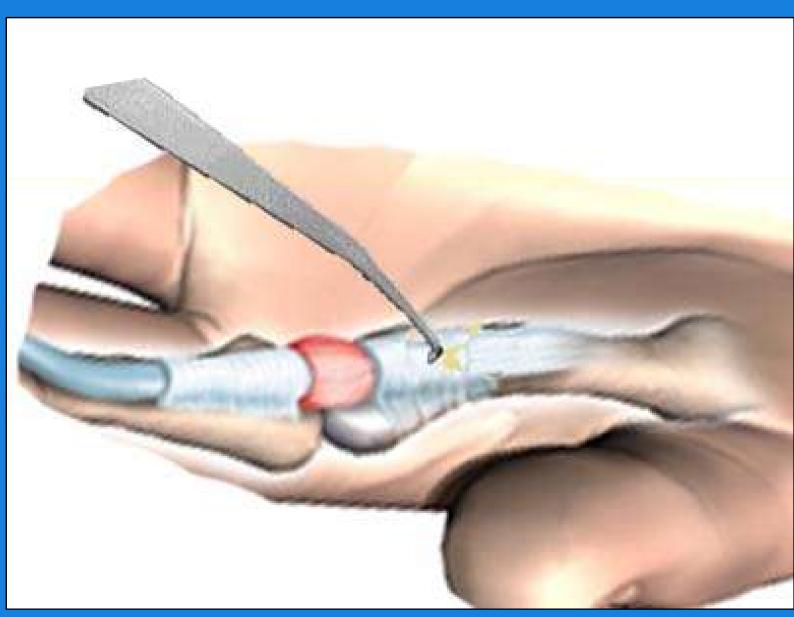


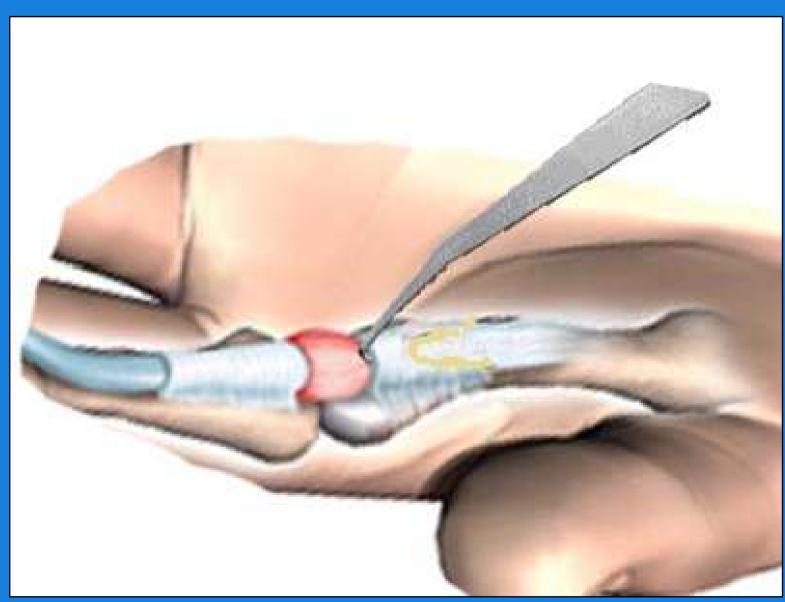




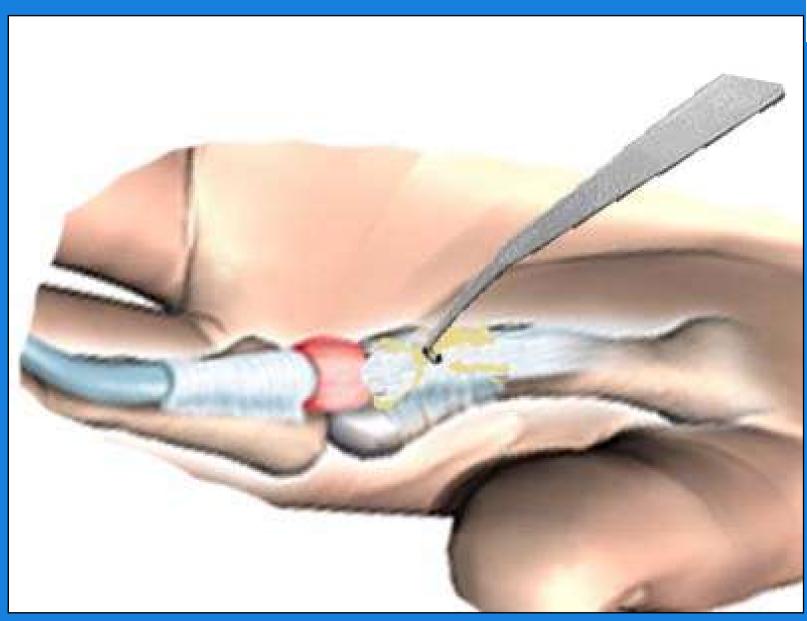




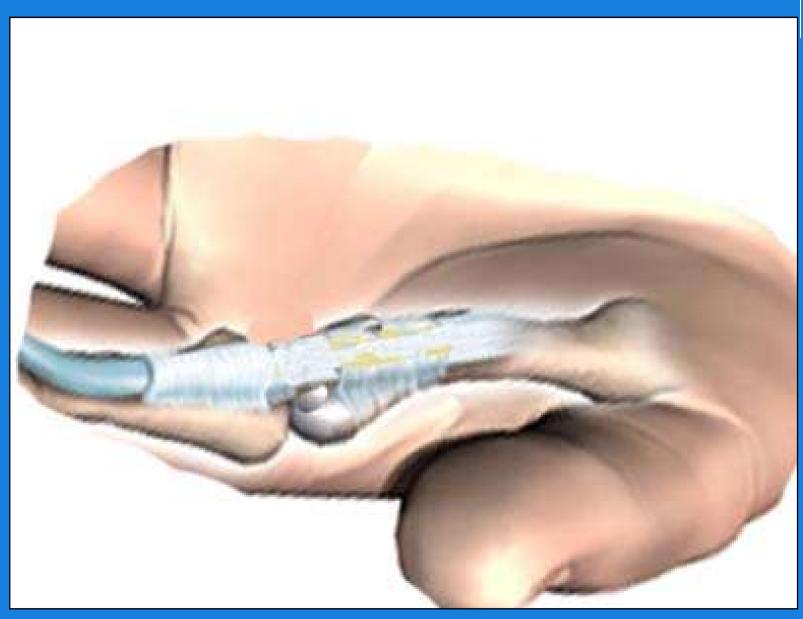




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- Mean age 50.4 years; Range 34 to 75 years.
- 16 females, 4 male.
- Mean duration of symptoms before treatment 11.8 months (2 months - 3 years)
- 10 patients had previous steroid injection.



- 20 patients, 27 trigger digits, stage II or III.
 - The index was involved in 5
 - The long finger in 14
 - The ring finger in 8.



- All A1 pulley were released by KS-1
- No Tendon, digital nerve, A2 pulley injury



At the 10 days after operation follow-up.

- Triggering and pain were eliminated in 26 fingers postoperatively (93.1%).
- In one case, re-triggering 10 days later.



Gilberts EC, int surg 2002

- Prospective study
- 100 pt
- percutaneous release vs open release
- Lime, cost, pain
- no failure, no complications



Kilic BA, Acta Orthop Traumatal Ture.2002

- needle No.16 —— open release
- complications:
 - superficial abrasion of tendon



Michael JD and Pen GM: J Hand Surg (Am) 1999

- new push knife vs 19-gauge needle
- 12% new push knife ;A2 pulley injury
- 0% 19-gauge needle



Current study

- -All A1 pulley were released by KS-1 instrument
- 93.1% short term good result
- No Tendon, digital nerve, A2 pulley injury



Conclusion

• Percutaneous trigger finger release using Korat-Satja1 is a easy, safe and effective procedure with a low rate of

complications.



Thank you for your attention

