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Hand, Upper Limb & General Orthopaedic Surgery

Dupuytren's disease

Can it be treated without an operation?



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Dupuytren's disease

- Fibrotic changes in fascia
- Progressive, chronic and benign
- Unknown cause
- Leads to Dupuytren's contracture



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Dupuytren's disease

Peyronie's disease

Ledderhose disease



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Preventing Dupuytren's disease



Exchange parents

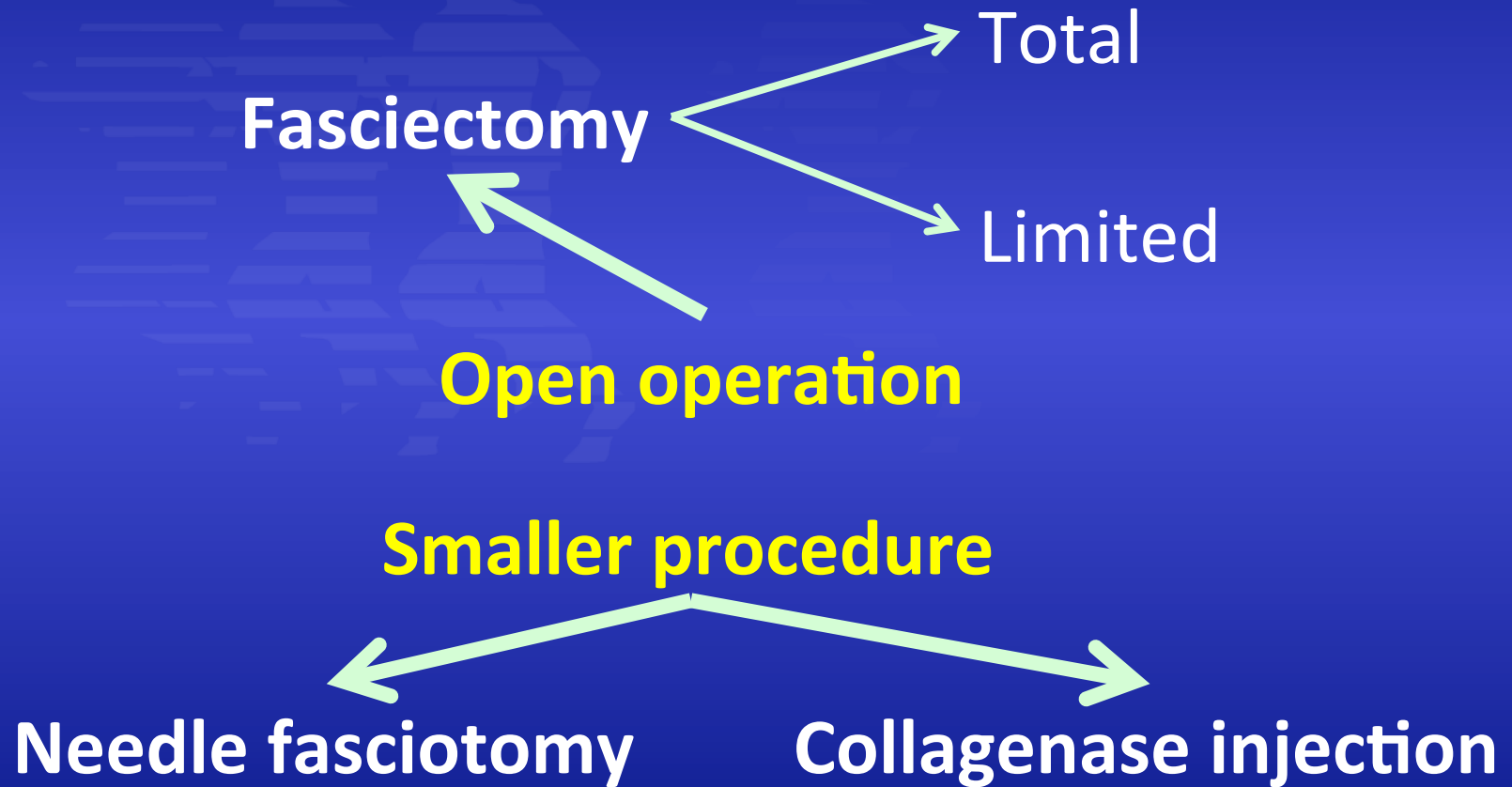


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How to treat Dupuytren's disease

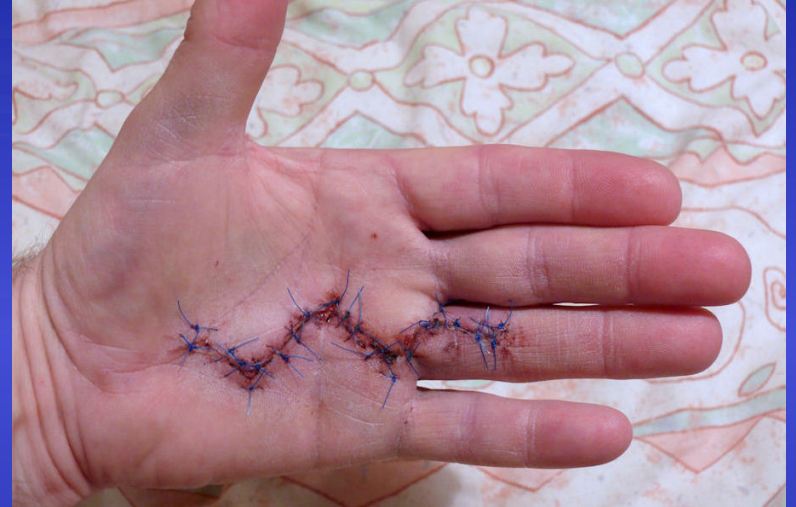
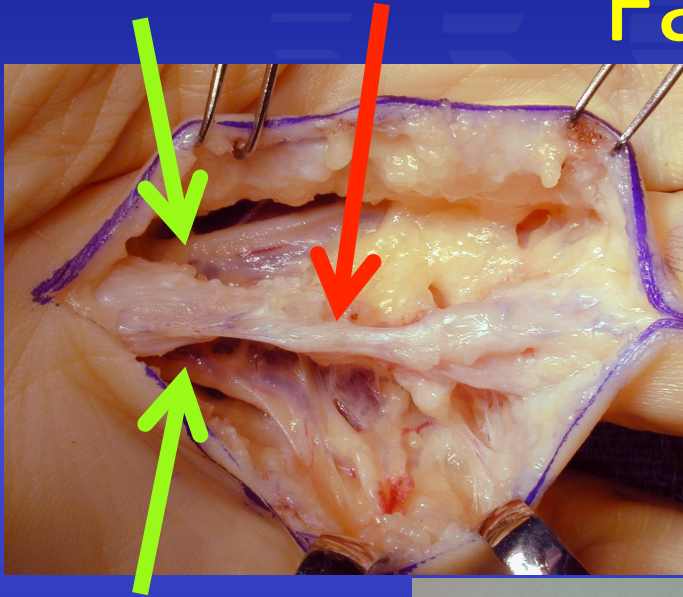


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Open operations – Fasciectomy



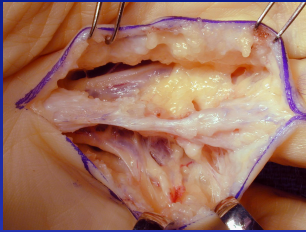
*Images: Lee, Medscape,
2015. Hilton1949,
Wikipedia, 2016.*



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Open operations – Fasciectomy

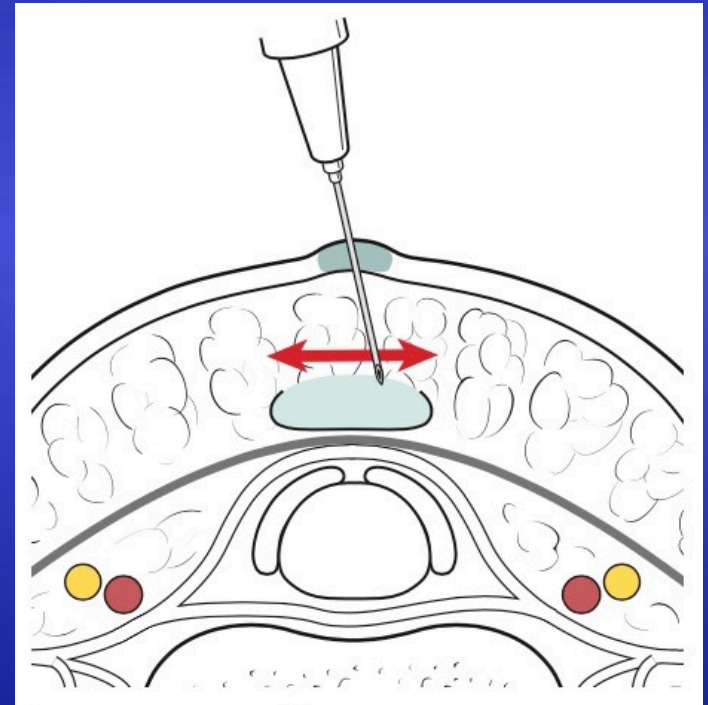
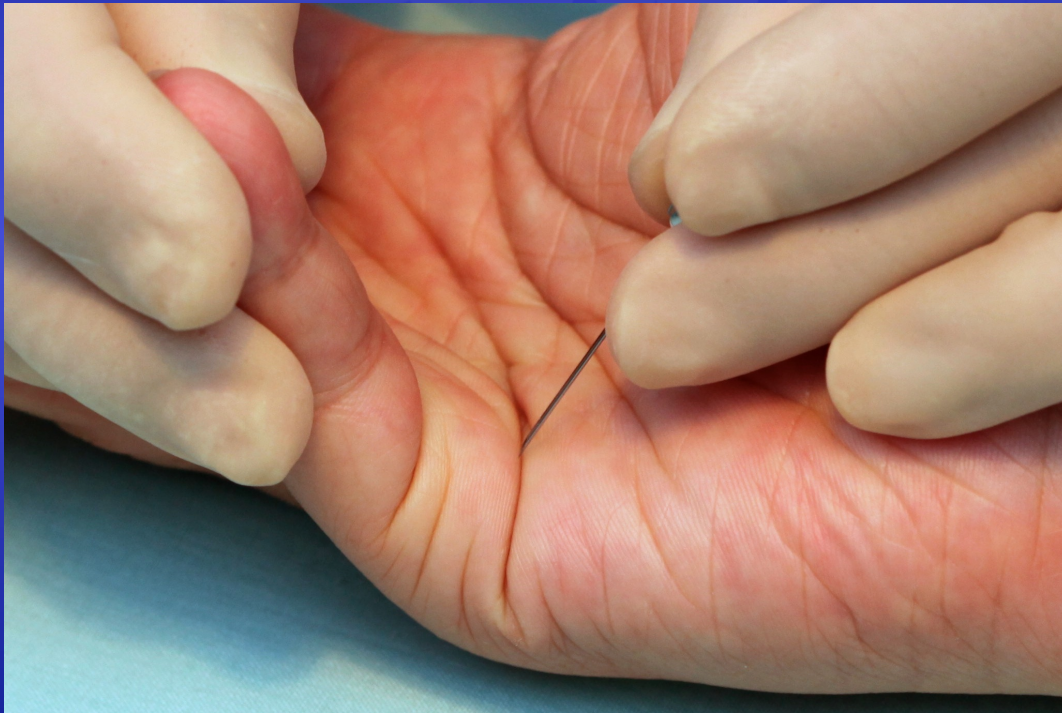


Surgery

Indication	Broad ✓
Complexity	High
Effectiveness	High ✓
Cost	High
Morbidity	Moderate
Recovery time	Long
Recurrence	Low ✓



Smaller procedures – Needle fasciotomy



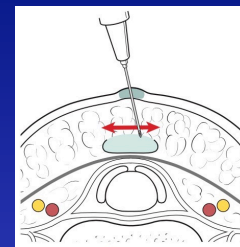
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Right image: Eaton, 2016.

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Smaller procedures – Needle fasciotomy



Surgery

Needle fasciotomy

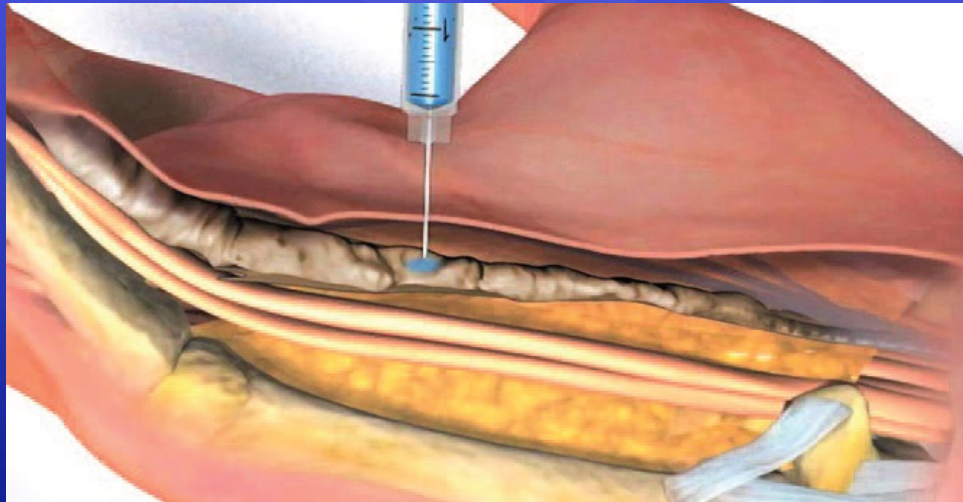
Indication	Broad ✓
Complexity	High
Effectiveness	High ✓
Cost	High
Morbidity	Moderate
Recovery time	Long
Recurrence	Low ✓



Narrow
Low
Moderate
Low ✓
Low ✓
Short ✓
High



Smaller procedures – Collagenase injection



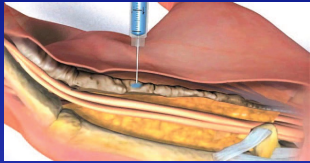
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Images: Xiaflex product information, 2014

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Smaller procedures – Collagenase injection



	Surgery	Collagenase injection	Needle fasciotomy
Indication	Broad ✓	Narrow	Narrow
Complexity	High	Medium	Low
Effectiveness	High ✓	Moderate	Moderate
Cost	High	Moderate	Low ✓
Morbidity	Moderate	Low	Low ✓
Recovery time	Long	Short	Short ✓
Recurrence	Low ✓	Medium	High



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Images: Xiaflex product information, 2014

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Putting it all together

	Surgery	Collagenase injection	Needle fasciotomy
Indication	Broad	Narrow	Narrow
Complexity	High	Medium	Low
Effectiveness	High	Moderate	Moderate
Cost	High	Moderate	Low
Morbidity	Moderate	Low	Low
Recovery time	Long	Short	Short
Recurrence	Low	Medium	High



Post-procedure treatment

- Wound care
- Range of motion
 - Maintain the correction
 - Prevent recurrence
- Restore function
- Watch for recurrence



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Thank you



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