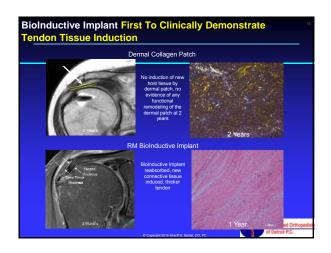
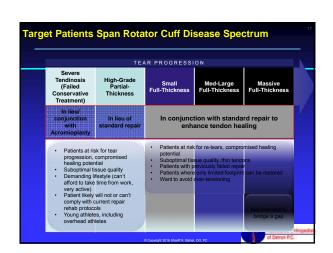
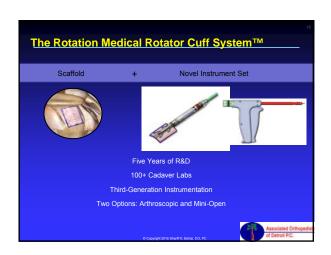
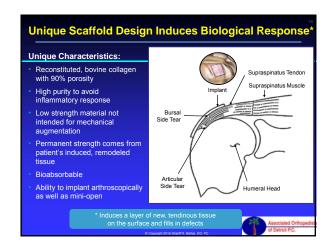


What are the attributes of an ideal scaffold for tissue regeneration? Provide a matrix scaffold to support the ingrowth of host Provide an inductive and conductive stimuli for cell What are the attributes of an ideal scaffold for tissue regeneration? What are the attributes of an ideal scaffold for tissue regeneration? Provide a matrix scaffold to support the ingrowth of host · Eventually be removed by













➤ Quick procedure, average time ~15 minutes ➤ Instrumentation enables reproducible placement of the scaffold ➤ Minimal learning curve with training ➤ Patient acceptance excellent

Conclusions

- ➤ Rotation Medical Scaffold was able to:
 - Induce new tissue similar to tendon on MRI
 - Maintain increased thickness of compromised tendon on MRI (Dr. Ho)
 - Lead to an improvement in Constant, ASES and SF-36 scores comparable to that seen in patients undergoing rotator cuff repair
- MRI scans at 12 months indicate that there may be induction of healing at the site of the partial-thickness tear in the cuff
- Rotation Medical Scaffold may offer an alternative treatment option for those patients with a deep partial-thickness cuff tear who are unable to comply with cuff repair rehabilitation
- Rotation Medical Scaffold did not interfere with routine cuff healing following repair, but in fact enhanced the radiological appearance of the repaired tendon

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The Rotation Medical Difference: Addressing Tendon Biology

RM BioInductive Implant

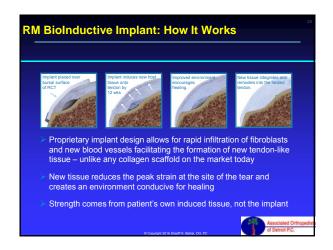
- Implant derived from bovine Achilles tendon, highly purified, highly porous, highly oriented design
- BioInductive implant gradually absorbs within six months, leaving a layer of new tendon-like tissue to biologically augment the existing tendon

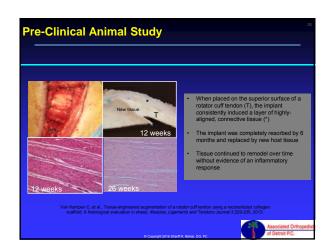
Load sharing implant

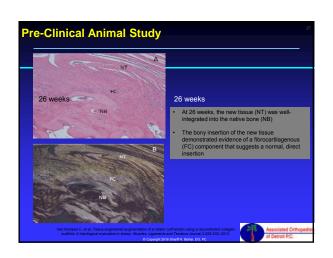


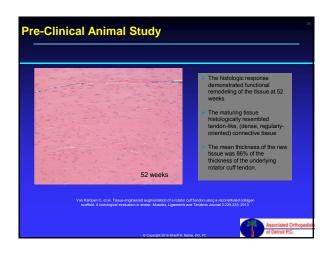
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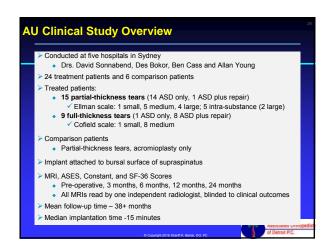


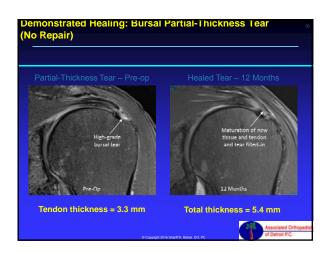




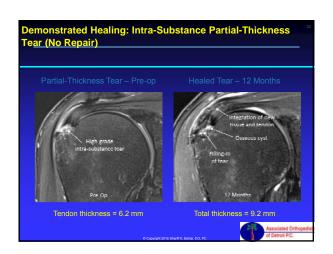


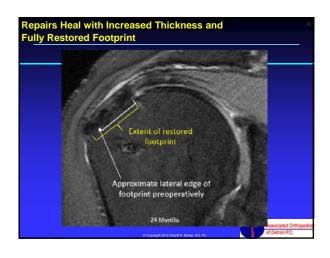


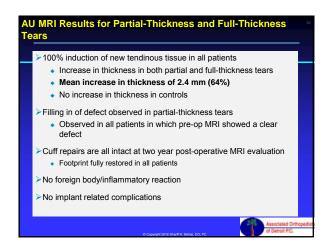


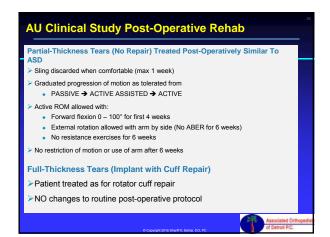


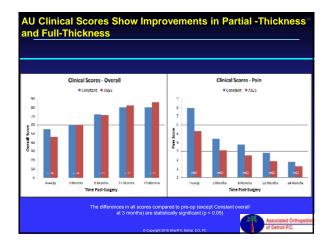


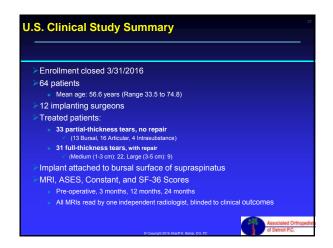


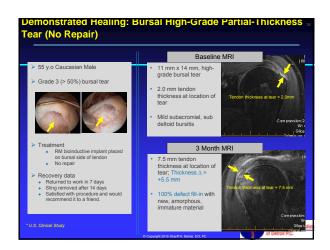


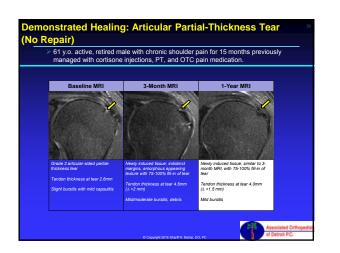


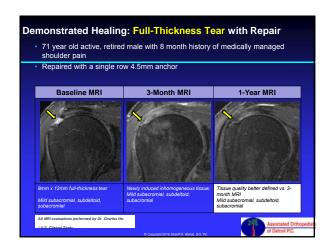


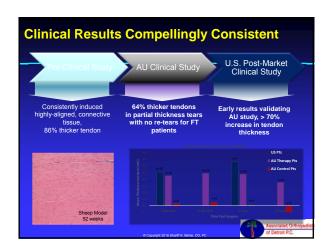




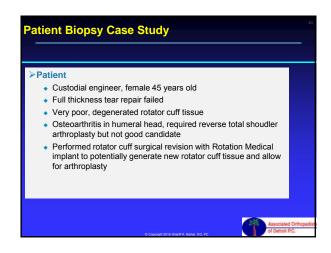






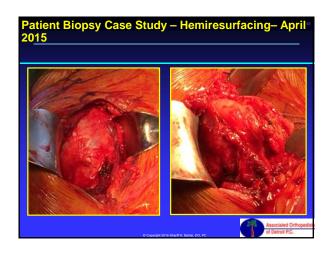


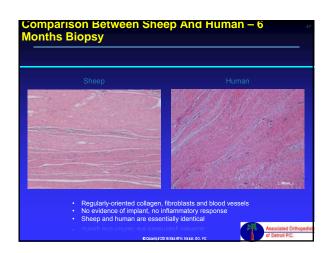
art	tial-	Thickness Tears (No Repair)		
Р	hase	I: Immediate post-op (first 5 to 7 days after surgery, prior to starting PT)		
		Use sling for 24 – 48 hours		
	٠	Remove 4 or 5 times daily to do pendulum exercises, supine external rotation, supine passive arm elevation, scapular retraction, shoulder shrug		
		Sleep with sling in place		
	٠	May use affect arm in front of body, no lifting of objects over 5lbs., no excessive shoulder extension, no supporting body weight by hands		
Р	hase	II: Intermediate phase (1 to 6 weeks post-op)		
		Should be weaned out of using sling		
		Begin formal physical therapy (ROM, AAROM, AROM, Pendulums, Pulleys, Cane Exercises, Self Stretches)		
		Once patient has pain free full ROM and no tenderness (Initiate isotonic program with dumbbells, PNF)		
		Continue to ice regularly		
	٠	Unless instructed otherwise, okay to drive, allowed to actively use arm for daily living, bathing, dressing, typing on computer, etc.		
Р	Phase III: Active strengthening phase (6 weeks and beyond)			
		Must be have full painless ROM and no pain or tenderness on examination to proceed to this phase		
	٠	$Continue\ dumbbell\ strengthening,\ progress\ the raband\ exercises\ to\ 90/90\ position\ for\ internal\ rotation\ and\ external\ rotation,\ etc.$		
ull	l-Th	ickness Tears (Implant with Cuff Repair)		
	ation	nt treated as for rotator cuff repair		
۲	atier	nt treated as for rotator cuff repair		















Bio-Inductive ImplantArthroscopic Technique PEARLS				
Please	customize as you see fit			
	ateral portal parallel to supraspinatus in al planes or use <u>accessory anterolater</u>			
	ncy is to place graft too far posterior an aft comes out lateral enough for prope n			
	ure staple gun insertion angle is not m s, separate portals for staples near ed			
	se attention to <u>maintaining position of</u> witching from punch to staple	bone stapler		
50	CONFIDENCE VALUES SHAPEN BOOK DO. PC	Associated Orthopedists of Detroit P.C.		