SUTURE RETRIEVER		FORCE (in N/mm)	LESION SIZE (in mm²)	Force (N/mm) / <u>Lesion (mm²),</u> <u>mean</u>	Force (N/mm) / <u>Lesion</u> (mm ²), mean
Straight				1	, j, mean
Arthrex TM Penetrator Suture Retriever II [®] Straight		6+	4.2+		
Arthrex™ Rhino® Straight Tip	mile .	8 ⁺	4.5+	9 [†]	
Smith & Nephews TM Arthropierce [®] Straight		11	5.8	<u>5.1</u>	
Tornier TM Penetrating Grasper [®] Straight		10	5.9		
Angled					
Arthrex [™] Penetrator Suture Retriever II [®] 15° Up	Afficial	19	6.1		12
Biomet™ Arthropasser® 35° Up	3 11	10	3.3 ⁺	10*	<u>4.9</u> *
Biomet TM Arthropasser [®] 45° Left		8+	4.3 ⁺		
Smith & Nephews™ ArthroPierce® 35° Up	15	9	5.8	13 [†] 4.9	
Smith & Nephews™ ArthroPierce® 45° Right		15	7		
Tornier™ Birdbeak® 35° Up	The state of the s	13	3 ⁺		
Tornier™ Birdbeak® 45° Right		15	4.9		
Tornier™ CleverHook® Right		17	4.5+		
SUTURE SHUTTLE					
Straight					
Arthrex TM Suture Lasso [®] SD Crescent		10	3.7+		
Smith & Nephews™ Accu-Pass® Big Curve		8+	3.9 ⁺	9 <u>3.3</u>	
Smith & Nephews™ Accu-Pass® Crescent	-	10	2.3 ⁺		
Angled					
Arthrex [™] Quick Pass Lasso [®] 90° Curve Straight		11	2+		10
Arthrex TM SutureLasso [®] SD 25° Tight Curve Left		11	3.1 ⁺		<u>3.1</u> *
ConMed Linvatec TM Spectrum [®] Suture Passer 45° Right		8+	2.7+	10	
ConMed Linvatec [™] Spectrum [®] Suture Passer 60° Right	LAVATEC	11	3 ⁺	<u>3</u>	
Smith & Nephews TM Accu-Pass [®] Suture Shuttle 70°		10	2.9 ⁺		
Smith & Nephews TM Suture Shuttle [®] Left 45° Curve		9	4.5 ⁺		

Table 1: Listing and illustration of all instruments used in respect to separation and subdivision. The mean values in N/mm and area in mm² are shown of each instrument as well as of comparison of Suture Retrievers and Suture Shuttles and straight and angled instruments within each group. Values marked with identical symbol were compared and showed significant differences. Instruments, which showed a significantly less force or lesion size of all Instruments in comparison to the ArthrexTM Penetrator Suture Retriever II® 15° Up (bold) are marked for Force in N/mm (+) and for the area in mm² in comparison to the Smith & NephewsTM ArthroPierce[®] 45° Right (bold).