Usage and Outcomes of DePuy-Mitek Hardware for Shoulder Surgery

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Table of contents

1	Preamble	4
2	Introduction	5
3	Glossary	5
4	Data Preparation 4.1 Load libraries	6 6 6 6 7 7 7 8 8 8 8 8
5	PRULO Summary	9
6	6.1 Sample Selection 6.2 Overview 6.3 Procedure Report - Rotator Cuff Repair 6.3.1 Patient Characteristics 6.3.2 Surgical Details 6.3.3 Treatment Survival 6.3.4 Adverse Events 6.3.5 Patient-Reported Outcomes	11 11 12 13 13
	6.4 Procedure Report - Biceps Tenodesis	

		6.4.2	Surgical Details			 		 	 		 			. 16
		6.4.3	Treatment Survival			 		 	 		 			. 17
		6.4.4	Adverse Events			 		 	 		 			. 18
		6.4.5	Patient-Reported Outcomes			 		 	 		 			. 18
7	Pro	duct Re	eport 2 - Healix Advance Knotless	PE	EK									19
•	7.1		le Selection					 	 		 			
	7.2	-	iew											
	7.3		dure Report - Rotator Cuff Repair .											
		7.3.1	Patient Characteristics											
		7.3.2	Surgical Details											
		7.3.3	Treatment Survival											
		7.3.4	Adverse Events			 		 	 		 			. 22
		7.3.5	Patient-Reported Outcomes											
	7.4	Procee	dure Report - Biceps Tenodesis			 		 	 		 			. 25
		7.4.1	Patient Characteristics			 		 	 		 			. 25
		7.4.2	Surgical Details			 		 	 		 			. 25
		7.4.3	Treatment Survival			 		 	 		 			. 26
		7.4.4	Adverse Events			 		 	 		 			. 27
		7.4.5	Patient-Reported Outcomes			 		 	 		 			. 27
_	_		. 2 . 11 . 12 . 14 . 1											20
8			eport 3 - Healix Advance Knotless											28
	8.1 8.2	_	le Selection \dots											
	8.3		iew											
	0.0	8.3.1	dure Report - Rotator Cuff Repair . Patient Characteristics											
		8.3.2												
		8.3.3	Surgical Details											
		8.3.4	Adverse Events											
		8.3.5	Patient-Reported Outcomes											
	8.4		dure Report - Biceps Tenodesis											
	0.4	8.4.1	Patient Characteristics											
		8.4.2	Surgical Details											
		8.4.3	Treatment Survival											
		8.4.4	Adverse Events											
		8.4.5	Patient-Reported Outcomes											
		0.4.0	Tablem Reported Oddeomes	•	•	 	•	 	 	•	 	•	•	. 50
9	Pro		eport 4 - Healix Advance BR with	-										37
	9.1		le Selection											
	9.2	Overv												
	9.3		dure Report - Rotator Cuff Repair .											
		9.3.1	Patient Characteristics											
		9.3.2	Surgical Details											
		9.3.3	Treatment Survival											
		9.3.4	Adverse Events											
		9.3.5	Patient-Reported Outcomes											
	9.4		dure Report - Biceps Tenodesis											
		9.4.1	Patient Characteristics			 		 	 		 		_	. 41

		9.4.2	Surgical Details					 					 		. 45
		9.4.3	Treatment Survival												
		9.4.4	Adverse Events					 					 		. 43
		9.4.5	Patient-Reported Outco												
			•												
10			port 5 - Milagro Advand												4!
	10.1	Sample	e Selection					 					 		. 4
	10.2	Overvi	ew					 					 		. 40
	10.3	Proceed	ure Report - Rotator Cu	iff Repair				 					 		. 40
		10.3.1	Patient Characteristics .					 					 		. 40
		10.3.2	Surgical Details					 					 		. 4'
		10.3.3	Treatment Survival					 					 		. 48
		10.3.4	Adverse Events					 					 		. 48
			Patient-Reported Outco												
	10.4		ure Report - Biceps Tene												
			Patient Characteristics.												
			Surgical Details												
			Treatment Survival												
			Adverse Events												
			Patient-Reported Outco												
		10.1.0	1 attent Reported Outeo	11100	• •	• •	• •	 • •		•	•	•	 •		. 0.
11	Proc	luct Re	port 6 - Gryphon ProKr	not BR											54
			Selection					 					 		. 5
			ew												
			ure Report - All												
			Patient Characteristics.												
			Surgical Details												
			Treatment Survival												
			Adverse Events												
			Patient-Reported Outco												
	11 4		ure Report - Bankart Re												
	11.1		Patient Characteristics .	_											
			Surgical Details												
			Treatment Survival												
			Adverse Events												
			Patient-Reported Outco												
		11.4.0	1 attent-neported Outco	illes				 	• •	• •	• •		 	•	. 0
12	Proc	luct Re	port 7 - Gryphon BR wi	ith Ortho	cor	d									62
			Selection					 					 		. 63
			ew												
			ure Report - All												
			Patient Characteristics .												
			Surgical Details												
			Treatment Survival												
			Adverse Events												
			Patient-Reported Outco												
	19 /		ure Report - Bankart Re												
	14.4		Patient Characteristics.	_											
		14.4.1	TABLETIC CHALACTERSLICS .					 					 		. ()

	12.4.2 Surgical Details	68 69
13		70
14	Product Report 9 - Gryphon PEEK with Dynacord 14.1 Sample Selection	71
15	Product Report 10 - Latarjet Screw 15.1 Sample Selection 15.2 Overview 15.3 Procedure Report - All 15.3.1 Patient Characteristics 15.3.2 Surgical Details 15.3.3 Treatment Survival 15.3.4 Adverse Events 15.3.5 Patient-Reported Outcomes	72 72 72 73 74 75
16	16.1 Sample Selection 16.2 Overview 16.3 Procedure Report - Rotator Cuff Repair 16.3.1 Patient Characteristics 16.3.2 Surgical Details 16.3.3 Treatment Survival	76 77 77 77 79 79
17	17.1 Sample Selection	81 81 81
18	18.1 Sample Selection	81 81 81
		81 82

1 Preamble

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2 Introduction

The surgeons from Geelong Orthopaedics participating in the Patient Registry of Upper Limb Pathology Outcomes (PRULO) specialise in joint replacement, sports injuries, upper limb and hand surgery, and trauma. The PRULO registry collates and stores patient outcomes collected routinely as part of the standard clinical pathway for upper limb pathology treatment.

The registry comprises three patient cohorts: rotator cuff pathology, glenohumeral instability, and general shoulder pathologies. Outcomes data collected by the registry include objective joint function, patient reported outcomes (pain, satisfaction, quality of life), radiological findings, surgical treatment and rates of revision surgery or complications.

Mitck Products are used across all three cohorts. This report summarises the outcomes of the Mitck product list used within the PRULO registry for the past year.

The dataset is derived from the PRULO registry snapshot and live database tables. A protocol has been previously prepared for the registry Scholes et al. (2023).

The outline of this report has been derived from the EuroSpine Registry report supplied as an example by Bruce Robie (Mitek, JnJ MedTech) (Sep 2023) and via summary of meeting minutes provided by Tracey Mealey in email correspondence (26-Jun-2023).

3 Glossary

To clarify terms used throughout the report, a glossary is presented below.

Table 1: Glossary of terms used in report

Term	Definition						
Case	Patient presents in a state such that						
Failure	i) a repaired construct is deemed to be absent healing, or has reinjured subsequent to						
	the index procedure						
	ii) the shoulder presents in a state such that removal of hardware or procedure revision						
	(single or multi-stage) is recommended						
Reoperati	on theatre procedure subsequent to the index surgery that does not involve removal,						
	replacement or modification of the construct.						
Case	A definitive reconstruction procedure performed on a patient, excluding a reoperation,						
	but including revision procedures.						
Revision	A repeat definitive procedure performed on a case where the previous definitive						
Else	procedure has been performed by another surgeon						

Term	Definition					
Revision	A repeat definitive procedure performed on a case where the previous definitive					
Own	procedure has been performed by the same contributing surgeon					
QuickDASIS hort form of the Disabilities of the Arm, Hand and Shoulder questionnaire.						
	questions are directed toward pain and disability associated with upper limb activities.					
	A diminishing score over time reflects improved function.					
WORCNo	or Western Ontario Rotator Cuff Index is a questionnaire specific to rotator cuff pathology					
	and is scored as the sum of a series of 10mm visual analogue scales. A normalised score					
	is calculated to convert the sum to a percentage score of normal (100%).					
WORC	Question 3 of the Physical subscale of the WORC asks "How much weakness do you					
Physical	experience in your shoulder?" and is a key indicator or rotator cuff integrity, especially					
Ques-	after repair.					
tion 3						
WOSINor	mWestern Ontario Rotator Cuff Index is a questionnaire specific to glenohumeral					
	instability and associated pathology and is scored as the sum of a series of 10mm					
	visual analogue scales. A normalised score is calculated to convert the sum to a percentage score of normal (100%) .					

4 Data Preparation

The steps below outline the process for preparing registry data for analysis.

4.1 Load libraries

Load up required packages in advance.

4.2 Authorisations

Pre-authorise access to registry datasets.

4.3 Functions for Processing

Include a series of functions to call later in the file for processing data imports.

4.4 Import Inputs

Data was imported from the PRULO registry. Configuration tables were also loaded, including the product table to describe the products of interest and list identifiers to match to surgical records. The table was modified to include a material column (PEEK or BR) and product identifiers.

Dataframes were combined into one for further analysis.

4.5 Combine and filter for 3 month follow up

The dataset was filtered to only include records with a minimum of 3 months follow up at the time of analysis.

4.6 Prepare dataset for procedure

Procedure data was combined from all cohorts. New columns were created based on conditional statements, cases were filtered where procedure data was unavailable (non-surgical, missing intraoperative data). Procedure data was further processed to standardise labels, categorised by structure (Rotator Cuff, Labrum, Capsule and Ligament) and adjunct procedures reorganised to account for variation across surgical indication.

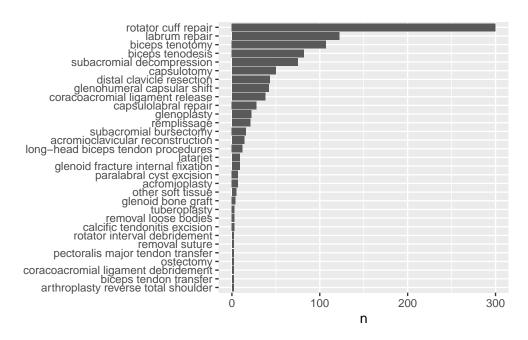


Figure 1: Summary of procedure terms included in registry output

4.7 Adjust dataset for time to event

To account for variations in follow up, time to event was calculated between date of surgery and change of record status. Treatment record end was defined as any change in state such that the treatment would be considered no longer active, has not achieved its clinical purpose or is no longer relevant. For example, in the case of soft tissue repair, if the target tissue represents with a retear, or the construct presents in a state such that hardware removal or replacement is recommended, then the treatment record status is set to inactive and a new treatment record is created to capture the subsequent treatment. The treatments with inactive statuses were extracted to a shared file for review. The subsequent treatment was manually labelled to create the Subsequent Treatment variable.

Additional numeric variables were calculated from inputs collected within the registry (e.g. Symptom Duration).

Read in results of manual review of failure cases and categorise subsequent treatments.

4.8 Prepare product groups of interest

Tables were rearranged and the dataset was filtered against an ignore list created from the product configuration table. Regular expressions were used to match products of interest to intraoperative hardware information and to sum the instances of implantation for each product of interest.

Identify the problematic codes that are not linking back to the ProductTable correctly

Discrepancies identified have been added to external table.

4.9 Adjust patient demographics for presentation

Recode Sex for report presentation.

4.10 Prepare patient-reported outcomes

The PRULO registry uses the QuickDASH (Gummesson, Ward, and Atroshi 2006) for all cases, Western Ontario Rotator Cuff Index (WORC) (Kirkley, Alvarez, and Griffin 2003) for records placed into the Rotator Cuff cohort and the Western Ontario Shoulder Instability Index (WOSI) (Kirkley et al. 1998) for records placed in the Glenohumeral Instability cohort to monitor patient-reported outcomes before and after surgery at defined time intervals. The metrics utilised for each questionnaire in this report are the total score (QuickDaSH) and the normalised total score (WORC and WOSI). A single question from the WORC was also presented (Question 3 of the Physical subscale) that asks "How much weakness do you experience in your shoulder?" to observe potential patterns relevant specifically to cuff repair. PROMs entries were restricted to cases where the treatment record was "eligible" for the time point. Tables were reshaped and variables refactored, with delta variables generated (difference to baseline at each followup) to enable plotting and table generation.

4.11 Prepare adverse events

Adverse events were monitored by near real-time chart review and surgical bookings. Events were added to the registry using an electronic form and linked to the treatment records. The data import was assessed for data entry validity, differences between date of event, date of reoperation and surgery date of the index treatment were calculated to assess date validity. Additional data preparation and cleaning was performed, which included filtering and standardizing key identifiers across multiple datasets. Missing values were identified to ensure data consistency. The adverse events were attached to the treatment data with filters applied to constrain to pertinent records and time periods. Time-based metrics were calculated and classification was performed based on the event descriptions using regular expressions. Finally, it conducted data quality checks, identifying potential discrepancies and duplicate entries. After the data transformation, the revised dataset

was exported to an external file for review. The code then generated multiple subset datasets, each focusing on a specific type of complication and isolating the earliest occurrence for each unique treatment. This was used for retrieval for each product report.

Split out into arrays to bounce against for each Product report

Intraoperative complications were reviewed manually for mechanism.

5 PRULO Summary

The diagram below summarises recruitment and categorisation of patients into the PRULO registry.

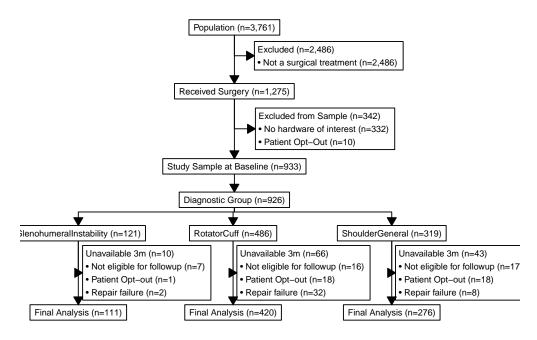


Figure 2: Flowchart of extraction and followup of sample from the Registry

Table 2: Summary of diagnoses using ICD-10 coding for primary presentation

Cohort	ICD10	n
General	M19.0	101
General	M75.0	42
General	S42.0	25
General	M12.0	17
General	S43.5	17
Glenohumeral Instability	S43.0	29
Glenohumeral Instability	S43.42	29
Glenohumeral Instability	M25.31	17
Glenohumeral Instability	M24.4	16
Glenohumeral Instability	M24.21	4

Table 2: Summary of diagnoses using ICD-10 coding for primary presentation

Cohort	ICD10	n
Rotator Cuff	M75.1	261
Rotator Cuff	S46.0	98
Rotator Cuff	S43.43	18
Rotator Cuff	M75.3	16
Rotator Cuff	S46.1	10

The table below summarises patient diagnoses in the PRULO registry. The primary pathology for a given presentation was derived from clinical notes and labelled with an ICD-10 (international) code. Each code was included in a configuration file to link to a registry cohort.

Table 3: Summary of PRULO surgical cases by coho

Characteristic	Statistic	Overall N = 1,045 ¹	General N = 428	Glen
Age at Initial Consultation (Years)	Median (Q1, Q3)	58 (45, 69)	64 (50, 73)	
Male	% (n)	63 (661)	51 (217)	
Dominant Side	% (n)	59 (440)	57 (173)	
Bilateral Presentation	% (n)	12 (130)	14 (60)	
Symptom Duration (Weeks)	Median (Q1, Q3)	57 (23, 177)	101 (37, 284)	
Symptom Duration Category ²				
<=0.5	% (n)	28 (135)	20 (34)	
>0.5	% (n)	72 (346)	80 (138)	
Treatment Record Active ³	% (n)	94 (987)	96 (412)	
Patient Record Active ⁴	% (n)	100 (1,041)	99 (424)	

¹Median (Q1, Q3); % (n)

The overall registry enrolment is summarised in Table 3, describing how the population is summarised into cohorts.

6 Product Report 1 - Healix Advance PEEK with Dynacord

6.1 Sample Selection

The sample of patients with the relevant product group were identified and data were retrieved for analysis by matching registry records to the relevant stock keeping units (SKUs) for the product group of interest. Usage statistics for the product group were added, and adverse events data were attached. Patient-reported data were retrieved and the dataset was manipulated to include relevant details for procedures of interest.

²Dichotomised below or equal to 0.5 years or greater than 0.5 years

³Treatment record remains active - no change to follow up

⁴Patient record remains open - no change to consent or mortality status

6.2 Overview

Usage of the Product within the patient group is summarised below.

There are 206 cases involving the anchor of interest. Surgeries were performed between 2020-Oct-21 and 2025-Jan-07. The procedures included [Cuff Repair] [Cuff Repair; Capsulotomy] [Cuff Repair; Tenotomy; Ligament Release] [Cuff Repair; Ligament Release] [Cuff Repair; Tenotomy] [Cuff Repair; Tenodesis] [Augmented Cuff Repair; Tenodesis; Capsular Reconstruction] [Augmented Cuff Repair; Tenotomy; Capsular Reconstruction [Augmented Cuff Repair; Capsulotomy] [Augmented Cuff Repair; Capsular Reconstruction [Cuff Repair; Tenodesis; Ligament Release] [Augmented Cuff Repair [Augmented Cuff Repair; Tenotomy; Ligament Release] [Augmented Cuff Repair; Tenotomy [Augmented Cuff Repair; Ligament Release] [Cuff Repair; Tenotomy; Capsulotomy] [Augmented Cuff Repair; Tenodesis] [Cuff Repair; Capsulolabral Repair], and [Tenodesis; Labrum Repair. There are 178 cases involving the anchor of interest and a rotator cuff repair. Surgeries were performed between 2020-Nov-10 to 2025-Jan-07. There are 22 cases involving the anchor of interest and a biceps tenodesis. Surgeries were performed between 2021-Jun-08 to 2023-Oct-25.

6.3 Procedure Report - Rotator Cuff Repair

6.3.1 Patient Characteristics

Patient demographic, pathology, and treatment characteristics for this cohort receiving the Product are summarised below.

Characteristic Statistic Overall $N = 178^{1}$ None N = 92Tenodesis

Table 4: Summary of PRULO Report 1 (Rotator Cuff) Case - Patient Characteris

Characteristic	Statistic	Overall IV - 170	None N - 32	renouesis
Age at Initial Consultation (Years)	Median (Q1, Q3)	60 (55, 65)	59 (54, 65)	54 (49,
Male	% (n)	71 (127)	67 (62)	100 (2
Cohort				
General	% (n)	0.6 (1)	1.1 (1)	0 (0
Rotator Cuff	% (n)	99 (177)	99 (91)	100 (2
Dominant Side	% (n)	62 (73)	63 (36)	62 (8
Bilateral Presentation	% (n)	7.3 (13)	3.3 (3)	25 (5
Symptom Duration (Weeks)	Median (Q1, Q3)	42 (21, 78)	38 (22, 88)	47 (9,
Symptom Duration Category ²				
<=0.5	% (n)	34 (38)	32 (17)	45 (5
>0.5	% (n)	66 (74)	68 (36)	55 (6
Treatment Record Active ³	% (n)	84 (149)	87 (80)	80 (1
Patient Record Active ⁴	% (n)	100 (178)	100 (92)	100 (2

¹Median (Q1, Q3); % (n)

²Dichotomised below or equal to 0.5 years or greater than 0.5 years

³Treatment record remains active - no change to follow up

⁴Patient record remains open - no change to consent or mortality status

6.3.2 Surgical Details

Surgical findings and management strategies are summarised below.

Table 5: Summary of PRULO Report 1 (Rotator Cuff) Cases Pathology and Surgic

Partial Tear 9.0 (16) 11 (10) 11 Treatment Type Primary 95 (169) 91 (84) 10 Revision Else 1.7 (3) 2.2 (2) 10 Revision Own 3.4 (6) 6.5 (6) 10 Product Count 1 44 (78) 47 (43) 44 1 44 (78) 47 (43) 44 2 42 (75) 41 (38) 44 3 13 (23) 11 (10) 11 4 1.1 (2) 1.1 (1) 15 5 0 (0) 0 (0) 0 (0) Cuff Repair 12 (21) 12 (11) 2 Augmented Cuff Repair 12 (21) 12 (11) 2 Cuff Repair 88 (157) 88 (81) 7 Repair Augmentation 11 (1) 11 (1) 11 (1) Autograft 0.6 (1) 0.1 (1) 0 (0) 0 None 88 (156) 88 (81) 7 Superior Capsular; Superior Capsular; Autograft 0.6 (1) 0.1 (1) 0 (0) 5 Superior Capsular; Autograft<	Characteristic	Overall N = 178 ¹	None N = 92 ¹	Tenodes
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Cuff Repair 12 (21) 12 (11) 2 Cuff Repair 88 (157) 88 (81) 7 Repair Augmentation 88 (157) 88 (81) 7 Allograft 0.6 (1) 1.1 (1) 0 Autograft; Superior Capsular 0.6 (1) 0 (0) 0 Autograft; Superior Capsular 0.6 (1) 0 (0) 0 None 88 (156) 88 (81) 7 Other² 3.4 (6) 2.2 (2) 1 Superior Capsular 5.6 (10) 7.6 (7) 5 Superior Capsular; advancement 0.6 (1) 1.1 (1) 0 Superior Capsular; Autograft 0.6 (1) 0 (0) 5 Labrum 0.6 (1) 0 (0) 5 Labrum Repair 0.6 (1) 1.1 (1) 0 None 99 (177) 99 (91) 10 Labrum Repair 100 (173) 100 (89) 10 Capsule Ligament 2.5 (8) 4.3 (4) 1 Capsular Reconstruction 4.5 (8) 4.3 (4) 1 Capsulotomy 5.1 (9) 5.4 (5) <td>4</td> <td>1.1 (2)</td> <td>1.1 (1)</td> <td>5</td>	4	1.1 (2)	1.1 (1)	5
Augmented Cuff Repair 12 (21) 12 (11) 2 Cuff Repair 88 (157) 88 (81) 7 Repair Augmentation 7 Allograft 0.6 (1) 1.1 (1) 6 Autograft; Superior Capsular 0.6 (1) 0 (0) 6 None 88 (156) 88 (81) 7 Other² 3.4 (6) 2.2 (2) 1 Superior Capsular 5.6 (10) 7.6 (7) 5 Superior Capsular; advancement 0.6 (1) 1.1 (1) 6 Superior Capsular; Autograft 0.6 (1) 1.1 (1) 6 Labrum 0.6 (1) 1.1 (1) 6 Capsulolabral Repair 0.6 (1) 1.1 (1) 6 None 99 (177) 99 (91) 10 Labrum Repair 100 (173) 100 (89) 10 Capsule Ligament 2.5 (8) 4.3 (4) 1 Capsular Reconstruction 4.5 (8) 4.3 (4) 1 Capsulotomy 5.1 (9) 5.4 (5)	5	0 (0)	0 (0)	(
Cuff Repair 88 (157) 88 (81) 73 Repair Augmentation 74 Allograft 0.6 (1) 1.1 (1) 1.2 (1) Autograft; Superior Capsular 0.6 (1) 0 (0) 1.2 (2) Autograft; Superior Capsular 0.6 (1) 0 (0) 1.7 (0) None 88 (156) 88 (81) 74 Other² 3.4 (6) 2.2 (2) 12 Superior Capsular 5.6 (10) 7.6 (7) 5 Superior Capsular; advancement 0.6 (1) 1.1 (1) 1.1 (1) Superior Capsular; Autograft 0.6 (1) 1.1 (1) 1.1 (1) Capsulolabral Repair 0.6 (1) 1.1 (1) 1.0 (1) Capsulolabral Repair 0.6 (1) 1.1 (1) 1.0 (1) None 99 (177) 99 (91) 1.0 (10) Capsule Ligament 2.2 (2) 1.2 (2) 1.2 (2) Capsular Reconstruction 4.5 (8) 4.3 (4) 1.1 (1) Capsulotomy 5.1 (9) 5.4 (5)	Cuff Repair			
Repair Augmentation Allograft 0.6 (1) 1.1 (1) 4.2 (2) Autograft; Superior Capsular 0.6 (1) 0 (0) 4.3 (4) Autograft; Superior Capsular 0.6 (1) 0 (0) 6.6 (1) None 88 (156) 88 (81) 7.6 (7) 5.7 (7) <td< td=""><td>Augmented Cuff Repair</td><td>12 (21)</td><td>12 (11)</td><td>2</td></td<>	Augmented Cuff Repair	12 (21)	12 (11)	2
Allograft 0.6 (1) 1.1 (1) 4 Autograft 0.6 (1) 0 (0) 4 Autograft; Superior Capsular 0.6 (1) 0 (0) 6 None 88 (156) 88 (81) 7 Other² 3.4 (6) 2.2 (2) 1 Superior Capsular 5.6 (10) 7.6 (7) 5 Superior Capsular; advancement 0.6 (1) 1.1 (1) 6 Superior Capsular; Autograft 0.6 (1) 1.1 (1) 6 Labrum Capsulolabral Repair 0.6 (1) 1.1 (1) 6 Capsulolabral Repair 0.6 (1) 1.1 (1) 6 Capsulolabral Repair 0.6 (1) 1.1 (1) 6 Capsulolabral Repair 0.5 (1) 1.1 (1) 1.1 (1) 6 Capsulolabral Repair 0.5 (1) 1.1 (1) 1.	Cuff Repair	88 (157)	88 (81)	75
Autograft 0.6 (1) 0 (0) 6 Autograft; Superior Capsular 0.6 (1) 0 (0) 6 None 88 (156) 88 (81) 7 Other² 3.4 (6) 2.2 (2) 1 Superior Capsular 5.6 (10) 7.6 (7) 5 Superior Capsular; advancement 0.6 (1) 1.1 (1) 6 Superior Capsular; Autograft 0.6 (1) 1.1 (1) 6 Labrum 2 2.2 (2) 1 6 Capsulolabral Repair; Autograft 0.6 (1) 1.1 (1) 6 None 99 (177) 99 (91) 10 Labrum Repair 100 (173) 100 (89) 10 None 100 (173) 100 (89) 10 Capsule Ligament 4.5 (8) 4.3 (4) 1 Capsulotomy 5.1 (9) 5.4 (5)	Repair Augmentation			
Autograft; Superior Capsular None 88 (156) 88 (81) 78 Other² 3.4 (6) 2.2 (2) Superior Capsular 5.6 (10) 7.6 (7) Superior Capsular; advancement 0.6 (1) 1.1 (1) Superior Capsular; Autograft 0.6 (1) 1.1 (1) Capsulolabral Repair None 99 (177) 99 (91) 100 (89) 100 (22) 110 (23) 110 (24) 110 (24) 110 (25) 110 (26) 110 (27) 110 (26) 110 (27) 110 (26) 110 (27) 110 (28) 110 (27) 110 (28)	Allograft	0.6 (1)	1.1 (1)	(
None 88 (156) 88 (81) 75 Other² 3.4 (6) 2.2 (2) 1 Superior Capsular 5.6 (10) 7.6 (7) 5 Superior Capsular; advancement 0.6 (1) 1.1 (1) 6 Superior Capsular; Autograft 0.6 (1) 0.0 (0) 5 Labrum Capsulolabral Repair 0.6 (1) 1.1 (1) 0 None 99 (177) 99 (91) 10 Labrum Repair 100 (173) 100 (89) 10 Capsule Ligament 4.5 (8) 4.3 (4) 1 Capsular Reconstruction 4.5 (8) 4.3 (4) 1 Capsulotomy 5.1 (9) 5.4 (5)	Autograft	0.6 (1)	0 (0)	(
Other² 3.4 (6) 2.2 (2) 1 Superior Capsular 5.6 (10) 7.6 (7) 5 Superior Capsular; advancement 0.6 (1) 1.1 (1) 6 Superior Capsular; Autograft 0.6 (1) 0 (0) 5 Labrum Capsulolabral Repair 0.6 (1) 1.1 (1) 6 None 99 (177) 99 (91) 10 Labrum Repair None 100 (173) 100 (89) 10 Capsule Ligament Capsular Reconstruction 4.5 (8) 4.3 (4) 1 Capsulotomy 5.1 (9) 5.4 (5) 6	Autograft; Superior Capsular	0.6 (1)	0 (0)	(
Superior Capsular 5.6 (10) 7.6 (7) 5 Superior Capsular; advancement 0.6 (1) 1.1 (1) 6 Superior Capsular; Autograft 0.6 (1) 0 (0) 5 Labrum Capsulolabral Repair 0.6 (1) 1.1 (1) 6 None 99 (177) 99 (91) 10 Labrum Repair 100 (173) 100 (89) 10 Capsule Ligament 4.5 (8) 4.3 (4) 1 Capsulotomy 5.1 (9) 5.4 (5) 6	None	88 (156)	88 (81)	7
Superior Capsular; advancement 0.6 (1) 1.1 (1) Superior Capsular; Autograft 0.6 (1) 0 (0) 5 Labrum Capsulolabral Repair 0.6 (1) 1.1 (1) 6 None 99 (177) 99 (91) 10 Labrum Repair 100 (173) 100 (89) 10 Capsule Ligament 4.5 (8) 4.3 (4) 1 Capsular Reconstruction 4.5 (8) 4.3 (4) 1 Capsulotomy 5.1 (9) 5.4 (5)	Other ²	3.4 (6)	2.2 (2)	1
Superior Capsular; Autograft 0.6 (1) 0 (0) 5 Labrum 0.6 (1) 1.1 (1) 0 Capsulolabral Repair 99 (177) 99 (91) 10 Labrum Repair 100 (173) 100 (89) 10 Capsule Ligament 20 4.5 (8) 4.3 (4) 10 Capsulotomy 5.1 (9) 5.4 (5) 6	Superior Capsular	5.6 (10)	7.6 (7)	5
Labrum Capsulolabral Repair 0.6 (1) 1.1 (1) 0.6 (1) 1.1 (1) 0.6 (1) 1.1 (1) 0.6 (1) 1.2 (1) 0.6 (1	Superior Capsular; advancement	0.6 (1)	1.1 (1)	(
Capsulolabral Repair 0.6 (1) 1.1 (1) None 99 (177) 99 (91) 100 Labrum Repair 100 (173) 100 (89) 100 Capsule Ligament 4.5 (8) 4.3 (4) 1 Capsulotomy 5.1 (9) 5.4 (5) 4	Superior Capsular; Autograft	0.6 (1)	0 (0)	5
None 99 (177) 99 (91) 100 Labrum Repair 100 (173) 100 (89) 100 Capsule Ligament 4.5 (8) 4.3 (4) 1 Capsulotomy 5.1 (9) 5.4 (5) 6	Labrum			
Labrum Repair None 100 (173) 100 (89) 100 (173) Capsule Ligament 200 (173) 4.3 (4) 100 (89) Capsular Reconstruction 4.5 (8) 4.3 (4) 100 (173) Capsulotomy 5.1 (9) 5.4 (5)	Capsulolabral Repair	0.6 (1)	1.1 (1)	(
None 100 (173) 100 (89) 100 (89) Capsule Ligament 4.5 (8) 4.3 (4) 1 Capsulotomy 5.1 (9) 5.4 (5) 6	None	99 (177)	99 (91)	10
Capsule Ligament Capsular Reconstruction 4.5 (8) 4.3 (4) 1 Capsulotomy 5.1 (9) 5.4 (5)	Labrum Repair			
Capsular Reconstruction 4.5 (8) 4.3 (4) 1 Capsulotomy 5.1 (9) 5.4 (5)	None	100 (173)	100 (89)	10
Capsulotomy 5.1 (9) 5.4 (5)	Capsule Ligament			
	Capsular Reconstruction	4.5 (8)	4.3 (4)	1
Ligament Release 22 (40) 24 (22) 5	Capsulotomy	5.1 (9)	5.4 (5)	(
	Ligament Release	22 (40)	24 (22)	5

Table 7: Summary of PRULO Report 1 (Rotator Cuff) Cases - Intraoperative Events

Characteristic	Overall N = 178 ¹	None N = 92 ¹	Tenodes
None	68 (121)	66 (61)	8
Glenoid			
None	100 (178)	100 (92)	10
Adjunct Procedure			
Distal Clavicle Resection	6.7 (12)	7.6 (7)	5
Infraspinatus Advancement	0.6 (1)	1.1 (1)	(
None	79 (141)	71 (65)	98
Removal Suture	0.6 (1)	1.1 (1)	(
Rotator Interval Debridement	0.6 (1)	0 (0)	(
Subacromial Bursectomy	3.4 (6)	6.5 (6)	(
Subacromial Bursectomy; Removal Implants	0.6 (1)	1.1 (1)	(
Subacromial Bursectomy; Rotator Interval Debridement	0.6 (1)	0 (0)	(
Subacromial Decompression	6.2 (11)	9.8 (9)	(
Subacromial Decompression; Distal Clavicle Resection	0.6 (1)	1.1 (1)	(
Subacromial Decompression; Os Acromiale Excision	0.6 (1)	0 (0)	(
Subacromial Decompression; Subacromial Bursectomy	0.6 (1)	1.1 (1)	(

¹% (n)

6.3.3 Treatment Survival

The mean follow up duration is 2.4 years, with a standard deviation of 1.36 years.

Failure or revision events as identified in the registry for this cohort are summarised below.

Table 6: Summary of PRULO Report 1 (Rotator Cuff) Procedure Survival

Characteristic	1 Weeks ¹	26 Weeks ¹	52 Weeks ¹	104 Weeks ¹
Procedure Survival	100% (100% - 100%)	87% (82% - 92%)	85% (80% - 91%)	85% (80% - 91%)

^{1%} survival with 95% confidence intervals

6.3.4 Adverse Events

Complications and adverse events are summarised below.

²Biceps tendon integration; Biceps tendon transfer; Tendon advancement

Table 8: Summary of PRULO Report 1 (Rotator Cuff) Cases - Postoperative Events.

Characteristic	$N = 178^{1}$	95% CI
Infection	2.2 (4)	0.72 - 6.0
Ligament Tendon (Retear)	21 (38)	16 - 28
Effusion	0 (0)	0.00 - 2.6
Pain	1.7 (3)	0.44 - 5.2
Hardware	1.7 (3)	0.44 - 5.2
Loosening	0 (0)	0.00 - 2.6
Instability	0 (0)	0.00 - 2.6
Stiffness	16 (28)	11 - 22
Neurological	0.6 (1)	0.03 - 3.6
Thrombosis	0.6 (1)	0.03 - 3.6
Other ²	2.2 (4)	0.72 - 6.0
Reoperation ³	7.3 (13)	4.1 - 12
Subsequent Treatment ⁴		
Hardware Removal	0.6 (1)	0.03 - 3.6
Nonoperative Management	8.4 (15)	5.0 - 14
Not Applicable	85 (152)	79 - 90
Removal Of Hardware	1.1 (2)	0.19 - 4.4
Revision Procedure	2.2 (4)	0.72 - 6.0
Revision Repair	2.2 (4)	0.72 - 6.0
Reoperation Delay (Weeks) ⁵	44 (33)	25 - 64

¹% (n); Mean (SD)

Abbreviation: CI = Confidence Interval

6.3.5 Patient-Reported Outcomes

Complete case analysis of QDASH, WORC Index Normalised, and WORC Physical Question 3 (How much weakness do you experience in your shoulder?) is summarised below.

²Myocardial Infarction

³A theatre procedure subsequent to the index surgery that does not involve removal, replacement or modificat

⁴Management undertaken for procedures that have suffered tissue failure or required hardware removal or rep

⁵Time between index procedure and reoperation

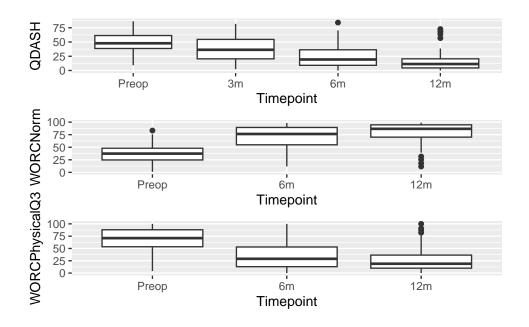


Figure 3: Complete case analysis of QDASH(Top), WORC Normalised (Middle) and WORC Physical Question 3 (Bottom).

Table 9: Summary of PRULO Report 1 (Rotator Cuff) Cases - QuickDASH

Characteristic	Preop N = 170 ¹	3m N = 178 ¹	6m N = 156 ¹	12m N = 138 ¹
QDASH	48 (39 - 61)	36 (20 - 55)	19 (9 - 36)	11 (5 - 20)
QDASHDelta	NA (NA - NA)	11 (-5 - 25)	26 (13 - 40)	28 (18 - 41)

¹Median (Q1 - Q3)

Table 10: Summary of PRULO Report 1 (Rotator Cuff) Cases - Western Ontario Rotator Cuff Index

Characteristic	Preop N = 170 ¹	6m N = 156 ¹	12m N = 138 ¹
WORCNorm	37 (24 - 48)	76 (54 - 90)	87 (70 - 95)
WORCPhysicalQ3	71 (53 - 88)	29 (13 - 53)	19 (10 - 38)
WORCDelta	NA (NA - NA)	33 (19 - 45)	46 (26 - 55)

¹Median (Q1 - Q3)

6.4 Procedure Report - Biceps Tenodesis

6.4.1 Patient Characteristics

Patient demographic, pathology, and treatment characteristics for this cohort receiving the Product are summarised below.

Table 11: Summary of PRULO Report 1 (Biceps Tenodesis) Case - Patient Characteristics

Characteristic	Statistic	Tenodesis N = 22
Age at Initial Consultation (Years)	Median (Q1, Q3)	53 (47, 58)
Male	% (n)	100 (22)
Cohort		
Glenohumeral Instability	% (n)	4.5 (1)
Rotator Cuff	% (n)	95 (21)
Dominant Side	% (n)	67 (10)
Bilateral Presentation	% (n)	23 (5)
Symptom Duration (Weeks)	Median (Q1, Q3)	47 (13, 55)
Symptom Duration Category ¹		
<=0.5	% (n)	38 (5)
>0.5	% (n)	62 (8)
Treatment Record Active ²	% (n)	82 (18)
Patient Record Active ³	% (n)	100 (22)

¹Dichotomised below or equal to 0.5 years or greater than 0.5 years

6.4.2 Surgical Details

Surgical findings and management strategies are summarised below.

Table 12: Summary of PRULO Report 1 (Biceps Tenodesis) Cases Pathology and Surgical Details

Characteristic	$N = 22^1$	
Cuff Status		
Full Tear	17 (81%)	
Partial Tear	3 (14%)	
Tendinopathy	1 (4.8%)	
Treatment Type		
Primary	22 (100%)	
Product Count		
1	10 (45%)	
2	8 (36%)	
3	3 (14%)	
4	1 (4.5%)	
5	0 (0%)	
Cuff Repair		
Augmented Cuff Repair	5 (23%)	

²Treatment record remains active - no change to follow up

³Patient record remains open - no change to consent or mortality status

Characteristic	N = 22 ¹	
Cuff Repair	15 (68%)	
None	2 (9.1%)	
Repair Augmentation		
None	16 (76%)	
Other ²	3 (14%)	
Superior Capsular	1 (4.8%)	
Superior Capsular; Autograft	1 (4.8%)	
Long Head Biceps Procedures		
Tenodesis	22 (100%)	
Labrum		
Labrum Repair	1 (4.5%)	
None	21 (95%)	
Labrum Repair		
None	21 (95%)	
Other ²	1 (4.5%)	
Capsule Ligament		
Capsular Reconstruction	2 (9.1%)	
Ligament Release	1 (4.5%)	
None	19 (86%)	
Glenoid		
None	22 (100%)	
Adjunct Procedure		
Distal Clavicle Resection	2 (9.1%)	
None	20 (91%)	
1n (%)		

¹n (%)

6.4.3 Treatment Survival

The mean follow up duration is 2.6 years, with a standard deviation of 1.04 years.

Failure or revision events as identified in the registry for this cohort are summarised below.

Table 13: Summary of PRULO Report 1 (Biceps Tenodesis) procedure survival (

Characteristic	1 Weeks ¹	26 Weeks ¹	52 Weeks ¹	104 Weeks ¹
Procedure Survival	100% (100% - 100%)	91% (80% - 100%)	91% (80% - 100%)	91% (80% - 100%

¹% survival with 95% confidence intervals

 $^{^2\}mbox{Biceps}$ tendon integration; Biceps tendon transfer; Tendon advancement

6.4.4 Adverse Events

Complications and adverse events are summarised below.

Table 15: Summary of PRULO Report 1 (Biceps Tenodesis) Cases - Postoperative Events

Characteristic	$N = 22^1$	95% CI
Infection	4.5 (1)	0.24 - 25
Ligament Tendon (Retear)	9.1 (2)	1.6 - 31
Effusion	0 (0)	0.00 - 18
Pain	0 (0)	0.00 - 18
Hardware	4.5 (1)	0.24 - 25
Loosening	0 (0)	0.00 - 18
Instability	0 (0)	0.00 - 18
Stiffness	18 (4)	6.0 - 41
Neurological	4.5 (1)	0.24 - 25
Thrombosis	0 (0)	0.00 - 18
Other	0 (0)	0.00 - 18
Reoperation ²	4.5 (1)	0.24 - 25
Subsequent Treatment ³		
Not Applicable	91 (20)	69 - 98
Removal Of Hardware	4.5 (1)	0.24 - 25
Revision Procedure	4.5 (1)	0.24 - 25

¹% (n)

6.4.5 Patient-Reported Outcomes

Complete case analysis of QDASH, WORC Normalised, and WORC Physical Q3 is summarised below.

²A theatre procedure subsequent to the index surgery that does not involve removal, replacement or modificat ³Management undertaken for procedures that have suffered tissue failure or required hardware removal or replacement. CI = Confidence Interval

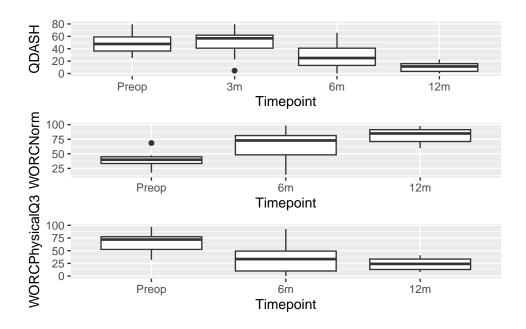


Figure 4: Complete case analysis of QDASH(Top), WORC Normalised (Middle) and WORC Physical Question 3 (Bottom).

Table 16: Summary of PRULO Report 1 (Biceps Tenodesis) Cases - QuickDASH.

Characteristic	Preop N = 19 ¹	$3m N = 22^1$	6m N = 21 ¹	12m N = 20 ¹
QDASH	48 (36 - 59)	57 (39 - 63)	25 (13 - 43)	11 (2 - 18)
QDASHDelta	NA (NA - NA)	0 (-11 - 32)	26 (9 - 32)	43 (32 - 61)

¹Median (Q1 - Q3)

Table 17: Summary of PRULO Report 1 (Biceps Tenodesis) Cases - Western Ontario Rotator Cuff Index

Characteristic	Preop N = 19 ¹	6m N = 21 ¹	12m N = 20 ¹
WORCNorm	40 (27 - 47)	73 (47 - 83)	85 (68 - 92)
WORCPhysicalQ3	72 (41 - 78)	34 (10 - 50)	24 (11 - 35)

¹Median (Q1 - Q3)

7 Product Report 2 - Healix Advance Knotless PEEK

7.1 Sample Selection

The sample of patients with the relevant product group were identified and data were retrieved for analysis by matching registry records to the relevant stock keeping units (SKUs) for the product group of interest. Usage statistics for the product group were added, and adverse events data were

attached. Patient-reported data were retrieved and the dataset was manipulated to include relevant details for procedures of interest.

7.2 Overview

Usage of the Product within the patient group is summarised below.

There are 219 cases involving the anchor of interest. Surgeries were performed between 2020-Oct-21 and 2025-Jan-07. The procedures included [Cuff Repair] [Cuff Repair; Capsulotomy] [Cuff Repair; Tenotomy; Ligament Release] [Cuff Repair; Ligament Release] [Cuff Repair; Tenotomy] [Cuff Repair; Tenodesis] [Augmented Cuff Repair; Tenodesis; Capsular Reconstruction] [Augmented Cuff Repair; Capsulotomy] [Augmented Cuff Repair; Capsulotomy] [Augmented Cuff Repair; Capsulotomy] [Augmented Cuff Repair; Tenotomy; Ligament Release] [Augmented Cuff Repair; Ligament Release] [Cuff Repair; Tenotomy; Capsulotomy] [Augmented Cuff Repair; Tenotomy], and [Augmented Cuff Repair; Tenodesis]. There are 190 cases involving the anchor of interest and a rotator cuff repair. Surgeries were performed between 2020-Nov-10 to 2025-Jan-07. There are 17 cases involving the anchor of interest and a biceps tenodesis. Surgeries were performed between 2021-Jun-10 to 2023-Oct-25.

7.3 Procedure Report - Rotator Cuff Repair

7.3.1 Patient Characteristics

Patient demographic, pathology, and treatment characteristics for this cohort receiving the Product are summarised below.

Table 18: Summary of PRULO Report 2 (Rotator Cuff) Case - Patient Characteri

Characteristic	Statistic	Overall N = 190 ¹	None N = 103	Tenodesi
Age at Initial Consultation (Years)	Median (Q1, Q3)	60 (55, 65)	59 (53, 65)	53 (51
Male	% (n)	70 (133)	65 (67)	100
Cohort				
General	% (n)	0.5 (1)	1.0 (1)	0 (
Rotator Cuff	% (n)	99 (189)	99 (102)	100
Dominant Side	% (n)	59 (73)	63 (40)	56
Bilateral Presentation	% (n)	7.4 (14)	2.9 (3)	29
Symptom Duration (Weeks)	Median (Q1, Q3)	37 (21, 77)	43 (22, 90)	15 (9,
Symptom Duration Category ²				
<=0.5	% (n)	34 (40)	31 (18)	57
>0.5	% (n)	66 (76)	69 (40)	43
Treatment Record Active ³	% (n)	84 (160)	89 (92)	76 (
Patient Record Active ⁴	% (n)	100 (190)	100 (103)	100

¹Median (Q1, Q3); % (n)

²Dichotomised below or equal to 0.5 years or greater than 0.5 years

Characteristic Statistic Overall N = 190 ¹ None N = 103 Tenode

³Treatment record remains active - no change to follow up

7.3.2 Surgical Details

Surgical findings and management strategies are summarised below.

Table 19: Summary of PRULO Report 2 (Rotator Cuff) Cases Pathology and Surgi

Characteristic	Overall N = 190 ¹	None N = 103 ¹	Tenod
Cuff Status			
Full Tear	91 (172)	86 (88)	,
Other ²	0.5 (1)	1.0 (1)	
Partial Tear	8.5 (16)	13 (13)	
Treatment Type			
Primary	96 (182)	93 (96)	1
Revision Else	1.6 (3)	1.9 (2)	
Revision Own	2.6 (5)	4.9 (5)	
Product Count			
1	53 (101)	54 (56)	
2	41 (77)	41 (42)	
3	5.3 (10)	4.9 (5)	
4	1.1 (2)	0 (0)	
5	0 (0)	0 (0)	
Cuff Repair			
Augmented Cuff Repair	13 (25)	15 (15)	
Cuff Repair	87 (165)	85 (88)	
Repair Augmentation			
Allograft	0.5 (1)	1.0 (1)	
Autograft; Superior Capsular	0.5 (1)	0 (0)	
None	87 (164)	85 (88)	
Other ²	3.2 (6)	1.9 (2)	
Superior Capsular	7.4 (14)	11 (11)	
Superior Capsular; advancement	0.5 (1)	1.0 (1)	
Superior Capsular; Autograft	1.1 (2)	0 (0)	
Labrum			
None	100 (190)	100 (103)	1
Labrum Repair			
None	100 (186)	100 (101)	1

⁴Patient record remains open - no change to consent or mortality status

Characteristic	Overall N = 190 ¹	None N = 103 ¹	Tenod
Capsule Ligament			
Capsular Reconstruction	5.8 (11)	5.8 (6)	
Capsulotomy	5.8 (11)	6.8 (7)	
Ligament Release	22 (42)	24 (25)	
None	66 (126)	63 (65)	
Glenoid			
None	100 (190)	100 (103)	1
Adjunct Procedure			
Calcific Tendonitis Excision	0.5 (1)	1.0 (1)	
Distal Clavicle Resection	7.4 (14)	8.7 (9)	
Infraspinatus Advancement	0.5 (1)	1.0 (1)	
None	77 (146)	68 (70)	
Removal Suture	0.5 (1)	1.0 (1)	
Rotator Interval Debridement	0.5 (1)	0 (0)	
Subacromial Bursectomy	2.6 (5)	4.9 (5)	
Subacromial Bursectomy; Removal Implants	0.5 (1)	1.0 (1)	
Subacromial Bursectomy; Rotator Interval Debridement	0.5 (1)	0 (0)	
Subacromial Decompression	7.9 (15)	12 (12)	
Subacromial Decompression; Distal Clavicle Resection	1.1 (2)	1.9 (2)	
Subacromial Decompression; Os Acromiale Excision	0.5 (1)	0 (0)	
Subacromial Decompression; Subacromial Bursectomy	0.5 (1)	1.0 (1)	

¹% (n)

7.3.3 Treatment Survival

The mean follow up duration is 2.4 years, with a standard deviation of 1.36 years.

Failure or revision events as identified in the registry for this cohort are summarised below.

Table 20: Summary of PRULO Report 2 (Rotator Cuff) Procedure Survival

Characteristic	1 Weeks ¹	26 Weeks ¹	52 Weeks ¹	104 Weeks ¹
Procedure Survival	100% (100% - 100%)	86% (81% - 91%)	86% (81% - 91%)	86% (81% - 91%)

¹% survival with 95% confidence intervals

7.3.4 Adverse Events

Complications and adverse events are summarised below.

²Biceps tendon integration; Biceps tendon transfer; Tendon advancement

Table 21: Summary of PRULO Report 2 (Rotator Cuff) Cases - Intraoperative Events

Table 22: Summary of PRULO Report 2 (Rotator Cuff) Cases - Postoperative Events

Characteristic	$N = 190^{1}$	95% CI
Infection	2.1 (4)	0.68 - 5.7
Ligament Tendon (Retear)	22 (42)	17 - 29
Effusion	0 (0)	0.00 - 2.5
Pain	2.1 (4)	0.68 - 5.7
Hardware	1.1 (2)	0.18 - 4.2
Loosening	0 (0)	0.00 - 2.5
Instability	0 (0)	0.00 - 2.5
Stiffness	18 (35)	13 - 25
Neurological	0.5 (1)	0.03 - 3.3
Thrombosis	0.5 (1)	0.03 - 3.3
Other ²	2.6 (5)	0.97 - 6.4
Reoperation ³	6.8 (13)	3.8 - 12
Subsequent Treatment ⁴		
Nonoperative Management	8.4 (16)	5.0 - 14
Not Applicable	86 (163)	80 - 90
Removal Of Hardware	1.6 (3)	0.41 - 4.9
Revision Procedure	2.1 (4)	0.68 - 5.7
Revision Repair	2.1 (4)	0.68 - 5.7
Reoperation Delay (Weeks) ⁵	44 (33)	25 - 64

¹% (n); Mean (SD)

Abbreviation: CI = Confidence Interval

7.3.5 Patient-Reported Outcomes

Complete case analysis of QDASH, WORC Index Normalised, and WORC Physical Question 3 (How much weakness do you experience in your shoulder?) is summarised below.

²Myocardial Infarction

³A theatre procedure subsequent to the index surgery that does not involve removal, replacement or modificat

⁴Management undertaken for procedures that have suffered tissue failure or required hardware removal or rep

⁵Time between index procedure and reoperation

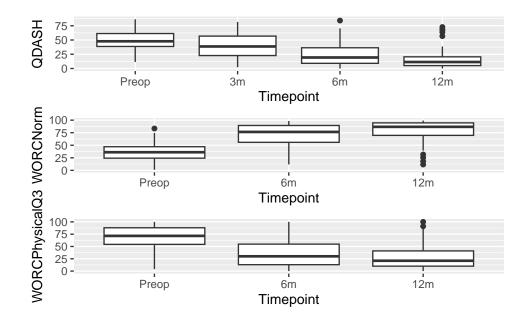


Figure 5: Complete case analysis of QDASH(Top), WORC Normalised (Middle) and WORC Physical Question 3 (Bottom).

Figure 1: Complete case analysis of QDASH(Top), WORC Index Normalised (Middle), and WORC Physical Question 3 (Bottom).

Table 5:

Table 23: Summary of PRULO Report 2 (Rotator Cuff) Cases - QuickDASH

Characteristic	Preop N = 171 ¹	$3m N = 179^1$	6m N = 157 ¹	12m N = 141 ¹
QDASH	48 (39 - 61)	39 (23 - 57)	19 (9 - 36)	11 (5 - 20)
QDASHDelta	NA (NA - NA)	11 (-5 - 25)	25 (13 - 41)	28 (18 - 41)

¹Median (Q1 - Q3)

Table 24: Summary of PRULO Report 2 (Rotator Cuff) Cases - Western Ontario Rotator Cuff Index

Characteristic	Preop N = 171 ¹	$6m N = 157^1$	12m N = 141 ¹
WORCNorm	36 (24 - 47)	77 (56 - 89)	87 (69 - 95)
WORCPhysicalQ3	72 (54 - 88)	30 (13 - 55)	21 (10 - 41)
WORCDelta	NA (NA - NA)	34 (20 - 48)	45 (32 - 55)

¹Median (Q1 - Q3)

7.4 Procedure Report - Biceps Tenodesis

7.4.1 Patient Characteristics

Patient demographic, pathology, and treatment characteristics for this cohort receiving the Product are summarised below.

Table 25: Summary of PRULO Report 2 (Biceps Tenodesis) Cases - Patient Characteristics

Characteristic	Statistic	Tenodesis N = 17
Age at Initial Consultation (Years)	Median (Q1, Q3)	53.0 (51.0, 58.0)
Male	% (n)	100 (17)
Cohort		
Rotator Cuff	% (n)	100 (17)
Dominant Side	% (n)	56 (5)
Bilateral Presentation	% (n)	29 (5)
Symptom Duration Category ¹		
<=0.5	% (n)	57 (4)
>0.5	% (n)	43 (3)
Treatment Record Active ²	% (n)	76 (13)
Patient Record Active ³	% (n)	100 (17)

¹Dichotomised below or equal to 0.5 years or greater than 0.5 years

7.4.2 Surgical Details

Surgical findings and management strategies are summarised below.

Table 26: Summary of PRULO Report 2 (Biceps Tenodesis) Cases Pathology and Surgical Details

Characteristic	$N = 17^1$	
Cuff Status		
Full Tear	16 (94%)	
Partial Tear	1 (5.9%)	
Treatment Type		
Primary	17 (100%)	
Product Count		
1	6 (35%)	
2	11 (65%)	
3	0 (0%)	
4	0 (0%)	

²Treatment record remains active - no change to follow up

³Patient record remains open - no change to consent or mortality status

Characteristic	N = 17 ¹
5	0 (0%)
Cuff Repair	
Augmented Cuff Repair	6 (35%)
Cuff Repair	11 (65%)
Repair Augmentation	
None	11 (65%)
Other ²	3 (18%)
Superior Capsular	1 (5.9%)
Superior Capsular; Autograft	2 (12%)
Long Head Biceps Procedures	
Tenodesis	17 (100%)
Labrum	
None	17 (100%)
Labrum Repair	
None	17 (100%)
Capsule Ligament	
Capsular Reconstruction	3 (18%)
None	14 (82%)
Glenoid	
None	17 (100%)
Adjunct Procedure	
Distal Clavicle Resection	1 (5.9%)
None	15 (88%)
Subacromial Decompression	1 (5.9%)

¹n (%)

7.4.3 Treatment Survival

The mean follow up duration is 2.6 years, with a standard deviation of 1.12 years.

Failure or revision events as identified in the registry for this cohort are summarised below.

Table 27: Summary of PRULO Report 2 (Biceps Tenodesis) procedure survival

Characteristic	1 Weeks ¹	26 Weeks ¹	52 Weeks ¹	104 Weeks ¹
Procedure Survival	100% (100% - 100%)	88% (74% - 100%)	88% (74% - 100%)	88% (74% - 100%

¹% survival with 95% confidence intervals

²Biceps tendon integration; Biceps tendon transfer; Tendon advancement

7.4.4 Adverse Events

Complications and adverse events are summarised below.

Table 29: Summary of PRULO Report 2 (Biceps Tenodesis) Cases - Postoperative Events

Characteristic	N = 17 ¹	95% CI
Infection	5.9 (1)	0.31 - 31
Ligament Tendon (Retear)	12 (2)	2.1 - 38
Effusion	0 (0)	0.00 - 23
Pain	0 (0)	0.00 - 23
Hardware	0 (0)	0.00 - 23
Loosening	0 (0)	0.00 - 23
Instability	0 (0)	0.00 - 23
Stiffness	24 (4)	7.8 - 50
Neurological	5.9 (1)	0.31 - 31
Thrombosis	0 (0)	0.00 - 23
Other	0 (0)	0.00 - 23
Reoperation ²	5.9 (1)	0.31 - 31
Subsequent Treatment ³		
Not Applicable	88 (15)	62 - 98
Removal Of Hardware	5.9 (1)	0.31 - 31
Revision Procedure	5.9 (1)	0.31 - 31

¹% (n)

7.4.5 Patient-Reported Outcomes

Complete case analysis of QDASH, WORC Normalised, and WORC Physical Q3 is summarised below.

²A theatre procedure subsequent to the index surgery that does not involve removal, replacement or modificat ³Management undertaken for procedures that have suffered tissue failure or required hardware removal or replacement. CI = Confidence Interval

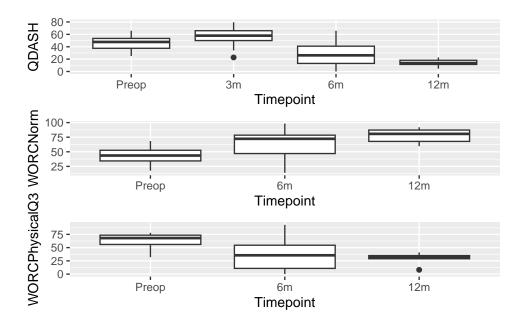


Figure 6: Complete case analysis of QDASH(Top), WORC Normalised (Middle) and WORC Physical Question 3 (Bottom).

Table 30: Summary of PRULO Report 2 (Biceps Tenodesis) Cases - QuickDASH

Characteristic	Preop N = 13 ¹	3m N = 16 ¹	6m N = 15 ¹	12m N = 14 ¹
QDASH	48 (36 - 59)	58 (48 - 68)	26 (13 - 43)	14 (11 - 18)
QDASHDelta	NA (NA - NA)	-6 (-11 - 2)	24 (9 - 27)	36 (25 - 48)

¹Median (Q1 - Q3)

Table 31: Summary of PRULO Report 2 (Biceps Tenodesis) Cases - Western Ontario Rotator Cuff Index

Characteristic	Preop N = 13 ¹	6m N = 15 ¹	12m N = 14 ¹
WORCNorm	44 (29 - 58)	72 (45 - 79)	81 (68 - 87)
WORCPhysicalQ3	68 (48 - 75)	36 (11 - 59)	32 (29 - 35)

¹Median (Q1 - Q3)

8 Product Report 3 - Healix Advance Knotless BR

8.1 Sample Selection

The sample of patients with the relevant product group were identified and data were retrieved for analysis by matching registry records to the relevant stock keeping units (SKUs) for the product group of interest. Usage statistics for the product group were added, and adverse events data were

attached. Patient-reported data were retrieved and the dataset was manipulated to include relevant details for procedures of interest.

8.2 Overview

Usage of the Product within the patient group is summarised below.

There are 63 cases involving the anchor of interest. Surgeries were performed between 2021-Mar-02 and 2024-Nov-14. The procedures included [Cuff Repair] [Cuff Repair; Tenodesis] [Cuff Repair] [Cuff Repai

8.3 Procedure Report - Rotator Cuff Repair

8.3.1 Patient Characteristics

Patient demographic, pathology, and treatment characteristics for this cohort receiving the Product are summarised below.

Table 32: Summary of PRULO Report 3 (Rotator Cuff) Cases - Patient Characterist

Characteristic	Statistic	Overall N = 62 ¹	None N = 41	Tenodesis
Age at Initial Consultation (Years)	Median (Q1, Q3)	62 (52, 69)	62 (57, 68)	63 (50, 6
Male	% (n)	76 (47)	71 (29)	95 (18
Cohort				
Rotator Cuff	% (n)	100 (62)	100 (41)	100 (19
Dominant Side	% (n)	61 (37)	66 (27)	44 (8)
Bilateral Presentation	% (n)	15 (9)	12 (5)	16 (3)
Symptom Duration (Weeks)	Median (Q1, Q3)	27 (17, 60)	25 (14, 60)	27 (20, 4
Symptom Duration Category ²				
<=0.5	% (n)	46 (18)	50 (11)	44 (7)
>0.5	% (n)	54 (21)	50 (11)	56 (9)
Treatment Record Active ³	% (n)	97 (60)	95 (39)	100 (19
Patient Record Active ⁴	% (n)	100 (62)	100 (41)	100 (19

¹Median (Q1, Q3); % (n)

²Dichotomised below or equal to 0.5 years or greater than 0.5 years

³Treatment record remains active - no change to follow up

⁴Patient record remains open - no change to consent or mortality status

8.3.2 Surgical Details

Surgical findings and management strategies are summarised below.

Table 33: Summary of PRULO Report 3 (Rotator Cuff) Cases P

Characteristic	Overall
Cuff Status	
Degenerative	1.6
Full Tear	94 (
Partial Tear	4.8
Treatment Type	1
Primary	98 (
Revision Else	1.6
Product Count	1
1	52 (
2	44 (
3	4.8
4	0 (
5	0 (
Cuff Repair	1
Augmented Cuff Repair	4.8
Cuff Repair	95 (
Repair Augmentation	1
Autograft	1.6
None	95 (
Other ²	3.2
Labrum	1
Capsulolabral Repair	1.6
None	98 (
Labrum Repair	
None	100 (
Capsule Ligament	
Capsulotomy	18 (
None	82 (
Glenoid	
None	100 (
Adjunct Procedure	
Distal Clavicle Resection	1.6
None	42 (
Subacromial Bursectomy	1.6

Table 35: Summary of PRULO Report 3 (Rotator Cuff) Cases - Intraoperative Events

Characteristic	Overall
Subacromial Bursectomy; Acromioplasty	3.2
Subacromial Decompression	32 (
Subacromial Decompression; Acromioplasty	1.6
Subacromial Decompression; Clavicle Osteotomy	1.6
Subacromial Decompression; Distal Clavicle Resection	9.7
Subacromial Decompression; Distal Clavicle Resection; Acromioplasty	1.6
Subacromial Decompression; Subacromial Bursectomy	1.6
Subacromial Decompression; Subacromial Bursectomy; Acromioplasty	1.6
Subacromial Decompression; Subacromial Bursectomy; Distal Clavicle Resection; Acromioplasty	1.6
10/ (p)	-

¹% (n)

8.3.3 Treatment Survival

The mean follow up duration is 2.7 years, with a standard deviation of 1.07 years.

Failure or revision events as identified in the registry for this cohort are summarised below.

Table 34: Summary of PRULO Report 3 (Rotator Cuff) Procedure Survival

Characteristic	1 Weeks ¹	26 Weeks ¹	52 Weeks ¹	104 Wee
Procedure Survival	100% (100% - 100%)	100% (100% - 100%)	100% (100% - 100%)	100% (100%

¹% survival with 95% confidence intervals

8.3.4 Adverse Events

Complications and adverse events are summarised below.

Table 36: Summary of PRULO Report 3 (Rotator Cuff) Cases - Postoperative Events

Characteristic	$N = 62^1$	95% CI
Infection	0 (0)	0.00 - 7.3
Ligament Tendon (Retear)	1.6 (1)	0.08 - 9.8
Effusion	0 (0)	0.00 - 7.3
Pain	4.8 (3)	1.3 - 14
Hardware	0 (0)	0.00 - 7.3
Loosening	0 (0)	0.00 - 7.3
Instability	0 (0)	0.00 - 7.3

²Biceps tendon integration; Biceps tendon transfer; Tendon advancement

Characteristic	N = 62 ¹	95% CI
Stiffness	3.2 (2)	0.56 - 12
Neurological	1.6 (1)	0.08 - 9.8
Thrombosis	0 (0)	0.00 - 7.3
Other ²	0 (0)	0.00 - 7.3
Reoperation ³	0 (0)	0.00 - 7.3
Subsequent Treatmen	4	
Not Applicable	100 (62)	93 - 100
10/ />		

¹% (n)

8.3.5 Patient-Reported Outcomes

Complete case analysis of QDASH, WORC Index Normalised, and WORC Physical Question 3 (How much weakness do you experience in your shoulder?) is summarised below.

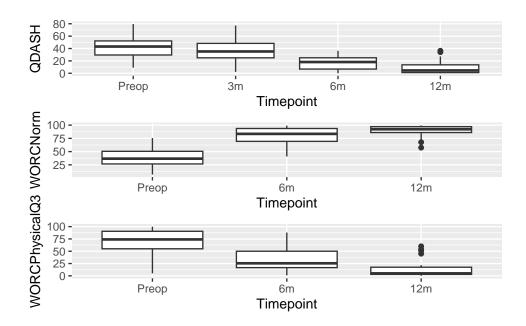


Figure 7: Complete case analysis of QDASH(Top), WORC Normalised (Middle) and WORC Physical Question 3 (Bottom)

²Myocardial Infarction

³A theatre procedure subsequent to the index surgery that does not involve removal, replacement or modificat

⁴Management undertaken for procedures that have suffered tissue failure or required hardware removal or repaired Abbreviation: CI = Confidence Interval

Table 37: Summary of PRULO Report 3 (Rotator Cuff) Cases - QuickDASH

Characteristic	Preop N = 60 ¹	3m N = 62 ¹	6m N = 60 ¹	12m N = 59 ¹
QDASH	43 (27 - 52)	35 (25 - 49)	18 (7 - 27)	5 (0 - 14)
QDASHDelta	NA (NA - NA)	9 (-11 - 16)	27 (15 - 41)	39 (23 - 43)

¹Median (Q1 - Q3)

Table 38: Summary of PRULO Report 3 (Rotator Cuff) Cases - Western Ontario Rotator Cuff Index

Characteristic	Preop N = 60 ¹	6m N = 60 ¹	12m N = 59 ¹
WORCNorm	37 (27 - 51)	83 (68 - 94)	92 (86 - 97)
WORCPhysicalQ3	74 (52 - 91)	26 (16 - 54)	5 (3 - 18)
WORCDelta	NA (NA - NA)	47 (35 - 58)	54 (38 - 61)

¹Median (Q1 - Q3)

8.4 Procedure Report - Biceps Tenodesis

8.4.1 Patient Characteristics

Patient demographic, pathology, and treatment characteristics for this cohort receiving the Product are summarised below.

Table 39: Summary of PRULO Report 3 (Biceps Tenodesis) Case - Patient Characteristics

Characteristic	Statistic	Tenodesis N = 19
Age at Initial Consultation (Years)	Median (Q1, Q3)	63 (50, 69)
Male	% (n)	95 (18)
Cohort		
Rotator Cuff	% (n)	100 (19)
Dominant Side	% (n)	44 (8)
Bilateral Presentation	% (n)	16 (3)
Symptom Duration Category ¹		
<=0.5	% (n)	44 (7)
>0.5	% (n)	56 (9)
Treatment Record Active ²	% (n)	100 (19)
Patient Record Active ³	% (n)	100 (19)

¹Dichotomised below or equal to 0.5 years or greater than 0.5 years

²Treatment record remains active - no change to follow up

³Patient record remains open - no change to consent or mortality status

8.4.2 Surgical Details

Surgical findings and management strategies are summarised below.

Table 40: Summary of PRULO Report 3 (Biceps Tenodesis) Cases Pathology and Surgical Details

Characteristic	N = 19 ¹
Cuff Status	
Degenerative	1 (5.3%)
Full Tear	18 (95%)
Treatment Type	
Primary	19 (100%)
Product Count	
1	7 (37%)
2	11 (58%)
3	1 (5.3%)
4	0 (0%)
5	0 (0%)
Cuff Repair	
Augmented Cuff Repair	2 (11%)
Cuff Repair	17 (89%)
Repair Augmentation	
Autograft	1 (5.3%)
None	17 (89%)
Other ²	1 (5.3%)
Long Head Biceps Procedures	
Tenodesis	19 (100%)
Labrum	
None	19 (100%)
Labrum Repair	
None	19 (100%)
Capsule Ligament	
Capsulotomy	1 (5.3%)
None	18 (95%)
Glenoid	
None	19 (100%)
Adjunct Procedure	
None	12 (63%)
Subacromial Bursectomy; Acromioplasty	1 (5.3%)
Subacromial Decompression	3 (16%)
Subacromial Decompression; Distal Clavicle Resection	2 (11%)

Table 42: Summary of PRULO Report 3 (Biceps Tenodesis) Cases - Intraoperative Events

Characteristic	$N = 19^1$
Subacromial Decompression; Subacromial Bursectomy	1 (5.3%)
1	

¹n (%)

8.4.3 Treatment Survival

The mean follow up duration is 2.4 years, with a standard deviation of 1.09 years.

Failure or revision events as identified in the registry for this cohort are summarised below.

Table 41: Summary of PRULO Report 3 (Biceps Tenodesis) procedure survival

Characteristic	1 Weeks ¹	26 Weeks ¹	52 Weeks ¹	104 Wee
Procedure Survival	100% (100% - 100%)	100% (100% - 100%)	100% (100% - 100%)	100% (100%

¹% survival with 95% confidence intervals

8.4.4 Adverse Events

Complications and adverse events are summarised below.

Table 43: Summary of PRULO Report 3 (Biceps Tenodesis) Cases - Postoperative Events

Characteristic	N = 19 ¹	95% CI
Infection	0 (0)	0.00 - 21
Ligament Tendon (Retear)	0 (0)	0.00 - 21
Effusion	0 (0)	0.00 - 21
Pain	5.3 (1)	0.28 - 28
Hardware	0 (0)	0.00 - 21
Loosening	0 (0)	0.00 - 21
Instability	0 (0)	0.00 - 21
Stiffness	0 (0)	0.00 - 21
Neurological	0 (0)	0.00 - 21
Thrombosis	0 (0)	0.00 - 21
Other	0 (0)	0.00 - 21
Reoperation ²	0 (0)	0.00 - 21
Subsequent Treatment ³		
Not Applicable	100 (19)	79 - 100

¹% (n)

²Biceps tendon integration; Biceps tendon transfer; Tendon advancement

Characteristic	$N = 19^{1}$	9	5% (CI

²A theatre procedure subsequent to the index surgery that does not involve removal, replacement or modificat ³Management undertaken for procedures that have suffered tissue failure or required hardware removal or replacement of the confidence interval

8.4.5 Patient-Reported Outcomes

Complete case analysis of QDASH, WORC Normalised, and WORC Physical Q3 is summarised below.

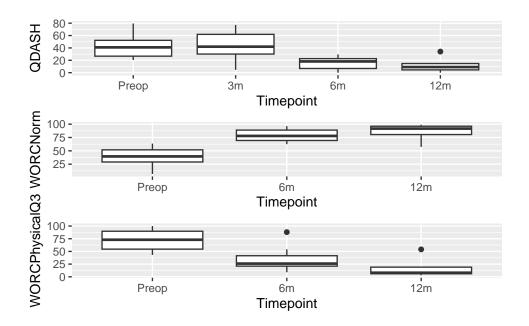


Figure 8: Complete case analysis of QDASH(Top), WORC Normalised (Middle) and WORC Physical Question 3 (Bottom)

Table 44: Summary of PRULO Report 3 (Biceps Tenodesis) Cases - QuickDASH

Characteristic	Preop N = 19 ¹	$3m N = 19^1$	6m N = 19 ¹	12m N = 18 ¹
QDASH	41 (26 - 52)	42 (28 - 63)	18 (7 - 23)	9 (5 - 16)
QDASHDelta	NA (NA - NA)	6 (-11 - 13)	25 (14 - 41)	39 (30 - 43)

¹Median (Q1 - Q3)

Table 45: Summary of PRULO Report 3 (Biceps Tenodesis) Cases - Western Ontario Rotator Cuff Index

Characteristic	Preop N = 19 ¹	6m N = 19 ¹	12m N = 18 ¹
WORCNorm	40 (27 - 53)	78 (63 - 96)	92 (73 - 97)

WORCPhysicalQ3 73 (52 - 90) 26 (19 - 54) 8 (6	
WORCE Trysical (3 / 3 (32 - 90) 20 (19 - 34) 8 (6	6 - 19)

¹Median (Q1 - Q3)

9 Product Report 4 - Healix Advance BR with Dynacord

9.1 Sample Selection

The sample of patients with the relevant product group were identified and data were retrieved for analysis by matching registry records to the relevant stock keeping units (SKUs) for the product group of interest. Usage statistics for the product group were added, and adverse events data were attached. Patient-reported data were retrieved and the dataset was manipulated to include relevant details for procedures of interest.

9.2 Overview

Usage of the Product within the patient group is summarised below.

There are 84 cases involving the anchor of interest. Surgeries were performed between 2021-Mar-02 and 2025-Jan-07. The procedures included [Cuff Repair; Tenodesis] [Cuff Repair] [Cuff Repair; Tenotomy] [Cuff Repair; Labrum Repair] [Cuff Repair; Capsulotomy] [Cuff Repair; Debridement; Capsulotomy] [Augmented Cuff Repair] [Cuff Repair; Tenodesis; Capsulotomy] [Augmented Cuff Repair; Tenodesis] [Augmented Cuff Repair; Capsular Reconstruction], and [Cuff Repair; Capsulolabral Repair]. There are 83 cases involving the anchor of interest and a rotator cuff repair. Surgeries were performed between 2021-Mar-02 to 2025-Jan-07. There are 27 cases involving the anchor of interest and a biceps tenodesis. Surgeries were performed between 2021-Mar-02 to 2025-Jan-07.

9.3 Procedure Report - Rotator Cuff Repair

9.3.1 Patient Characteristics

Patient demographic, pathology, and treatment characteristics for this cohort receiving the Product are summarised below.

Table 46: Summary of PRULO Report 4 (Rotator Cuff) Case - Patient Characterist

Characteristic	Statistic	Overall N = 83 ¹	None N = 52	Tenodesis
Age at Initial Consultation (Years)	Median (Q1, Q3)	62 (54, 69)	62 (57, 69)	61 (51, 6
Male	% (n)	73 (61)	69 (36)	93 (25
Cohort				
General	% (n)	1.2 (1)	1.9 (1)	0 (0)
Rotator Cuff	% (n)	99 (82)	98 (51)	100 (27
Dominant Side	% (n)	61 (49)	67 (35)	48 (12

Characteristic	Statistic	Overall N = 83 ¹	None N = 52	Tenodesis
Bilateral Presentation	% (n)	14 (12)	13 (7)	15 (4)
Symptom Duration (Weeks)	Median (Q1, Q3)	29 (17, 87)	25 (14, 51)	30 (20, 6
Symptom Duration Category ²				
<=0.5	% (n)	45 (23)	50 (14)	40 (8)
>0.5	% (n)	55 (28)	50 (14)	60 (12
Treatment Record Active ³	% (n)	96 (80)	96 (50)	100 (27
Patient Record Active ⁴	% (n)	100 (83)	100 (52)	100 (27
1 (2 22) 2(

¹Median (Q1, Q3); % (n)

9.3.2 Surgical Details

Table 47: Summary of PRULO Report 4 (Rotator Cuff) Cases P

Characteristic	Overall
Cuff Status	
Degenerative	1.2
Full Tear	98 (
Partial Tear	1.2
Treatment Type	
Primary	99 (
Revision Else	1.2
Product Count	
1	80 (
2	18 (
3	2.4
4	0 (
5	0 (
Cuff Repair	
Augmented Cuff Repair	6.0
Cuff Repair	94 (
Repair Augmentation	
Autograft	1.2
None	94 (
Other ²	3.6

²Dichotomised below or equal to 0.5 years or greater than 0.5 years

³Treatment record remains active - no change to follow up

⁴Patient record remains open - no change to consent or mortality status

Characteristic	Overall
Superior Capsular	1.2
Labrum	
Capsulolabral Repair	1.2
Debridement	1.2
Labrum Repair	1.2
None	96 (8
Labrum Repair	
Bankart	1.2
None	99 (
Capsule Ligament	
Capsular Reconstruction	1.2
Capsulotomy	17 (
None	82 (
Glenoid	
None	100 (
Adjunct Procedure	
Distal Clavicle Resection	2.4
None	48 (4
Subacromial Bursectomy; Acromioplasty	2.4
Subacromial Decompression	29 (
Subacromial Decompression; Acromioplasty	1.2
Subacromial Decompression; Clavicle Osteotomy	1.2
Subacromial Decompression; Distal Clavicle Resection	11 (
Subacromial Decompression; Distal Clavicle Resection; Acromioplasty	1.2
Subacromial Decompression; Subacromial Bursectomy	1.2
Subacromial Decompression; Subacromial Bursectomy; Acromioplasty	1.2
Subacromial Decompression; Subacromial Bursectomy; Distal Clavicle Resection; Acromioplasty	1.2
¹ % (n)	

²Biceps tendon integration; Biceps tendon transfer; Tendon advancement

9.3.3 Treatment Survival

The mean follow up duration is 2.5 years, with a standard deviation of 1.13 years.

Failure or revision events as identified in the registry for this cohort are summarised below.

Table 48: Summary of PRULO Report 4 (Rotator Cuff) Procedure Survival

Characteristic	1 Weeks ¹	26 Weeks ¹	52 Weeks ¹	104 Weeks ¹
Procedure Survival	100% (100% - 100%)	99% (96% - 100%)	99% (96% - 100%)	99% (96% - 100%

Table 49: Summary of PRULO Report 4 (Rotator Cuff) Cases - Intraoperative Events

¹% survival with 95% confidence intervals

9.3.4 Adverse Events

Complications and adverse events are summarised below.

Table 50: Summary of PRULO Report 4 (Rotator Cuff) Cases - Postoperative Events

$N = 83^{1}$	95% CI
0 (0)	0.00 - 5.5
2.4 (2)	0.42 - 9.2
0 (0)	0.00 - 5.5
3.6 (3)	0.94 - 11
0 (0)	0.00 - 5.5
0 (0)	0.00 - 5.5
0 (0)	0.00 - 5.5
3.6 (3)	0.94 - 11
1.2 (1)	0.06 - 7.5
0 (0)	0.00 - 5.5
0 (0)	0.00 - 5.5
0 (0)	0.00 - 5.5
1.2 (1)	0.06 - 7.5
99 (82)	93 - 100
	0 (0) 2.4 (2) 0 (0) 3.6 (3) 0 (0) 0 (0) 0 (0) 3.6 (3) 1.2 (1) 0 (0) 0 (0) 1.2 (1)

¹% (n)

Abbreviation: CI = Confidence Interval

9.3.5 Patient-Reported Outcomes

Complete case analysis of QDASH, WORC Index Normalised, and WORC Physical Question 3 (How much weakness do you experience in your shoulder?) is summarised below.

²Myocardial Infarction

³A theatre procedure subsequent to the index surgery that does not involve removal, replacement or modificat ⁴Management undertaken for procedures that have suffered tissue failure or required hardware removal or rep

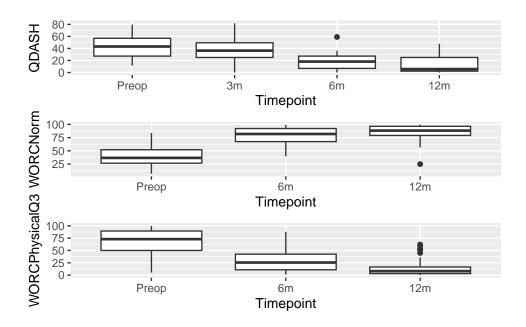


Figure 9: Complete case analysis of QDASH(Top), WORC Normalised (Middle) and WORC Physical Question 3 (Bottom).

Table 51: Summary of PRULO Report 4 (Rotator Cuff) Cases - QuickDASH

Characteristic	Preop N = 80 ¹	$3m N = 83^1$	6m N = 78 ¹	12m N = 77 ¹
QDASH	43 (27 - 57)	36 (25 - 50)	18 (7 - 27)	6 (2 - 25)
QDASHDelta	NA (NA - NA)	9 (-7 - 18)	27 (11 - 41)	30 (14 - 43)

¹Median (Q1 - Q3)

Table 52: Summary of PRULO Report 4 (Rotator Cuff) Cases - Western Ontario Rotator Cuff Index

Characteristic	Preop N = 80 ¹	6m N = 78 ¹	12m N = 77 ¹
WORCNorm	37 (27 - 53)	82 (67 - 93)	88 (79 - 97)
WORCPhysicalQ3	73 (50 - 90)	26 (11 - 43)	8 (3 - 17)
WORCDelta	NA (NA - NA)	45 (29 - 58)	39 (30 - 59)

¹Median (Q1 - Q3)

9.4 Procedure Report - Biceps Tenodesis

9.4.1 Patient Characteristics

Patient demographic, pathology, and treatment characteristics for this cohort receiving the Product are summarised below.

Table 53: Summary of PRULO Report 4 (Biceps Tenodesis) Case - Patient Characteristics

Characteristic	Statistic	Tenodesis N = 27
Age at Initial Consultation (Years)	Median (Q1, Q3)	61 (51, 69)
Male	% (n)	93 (25)
Cohort		
Rotator Cuff	% (n)	100 (27)
Dominant Side	% (n)	48 (12)
Bilateral Presentation	% (n)	15 (4)
Symptom Duration Category ¹		
<=0.5	% (n)	40 (8)
>0.5	% (n)	60 (12)
Treatment Record Active ²	% (n)	100 (27)
Patient Record Active ³	% (n)	100 (27)

¹Dichotomised below or equal to 0.5 years or greater than 0.5 years

9.4.2 Surgical Details

Table 54: Summary of PRULO Report 1 (Biceps Tenodesis) Cases Pathology and Surgical Details

Characteristic	N = 27 ¹
Cuff Status	
Degenerative	1 (3.7%)
Full Tear	26 (96%)
Treatment Type	
Primary	27 (100%)
Product Count	
1	18 (67%)
2	7 (26%)
3	2 (7.4%)
4	0 (0%)
5	0 (0%)
Cuff Repair	
Augmented Cuff Repair	2 (7.4%)
Cuff Repair	25 (93%)
Repair Augmentation	
Autograft	1 (3.7%)

²Treatment record remains active - no change to follow up

³Patient record remains open - no change to consent or mortality status

Table 56: Summary of PRULO Report 4 (Biceps Tenodesis) Cases - Intraoperative Events

Characteristic	$N = 27^1$
None	25 (93%)
Other ²	1 (3.7%)
Long Head Biceps Procedures	
Tenodesis	27 (100%)
Labrum	
None	27 (100%)
Labrum Repair	
None	27 (100%)
Capsule Ligament	
Capsulotomy	2 (7.4%)
None	25 (93%)
Glenoid	
None	27 (100%)
Adjunct Procedure	
None	19 (70%)
Subacromial Bursectomy; Acromioplasty	1 (3.7%)
Subacromial Decompression	4 (15%)
Subacromial Decompression; Distal Clavicle Resection	2 (7.4%)
Subacromial Decompression; Subacromial Bursectomy	1 (3.7%)
¹ n (%)	

¹n (%)

9.4.3 Treatment Survival

The mean follow up duration is 2.3 years, with a standard deviation of 1.12 years.

Failure or revision events as identified in the registry for this cohort are summarised below.

Table 55: Summary of PRULO Report 4 (Biceps Tenodesis) procedure survival

Characteristic	1 Weeks ¹	26 Weeks ¹	52 Weeks ¹	104 We
Procedure Survival	100% (100% - 100%)	100% (100% - 100%)	100% (100% - 100%)	100% (100%

^{1%} survival with 95% confidence intervals

9.4.4 Adverse Events

Complications and adverse events are summarised below.

²Biceps tendon integration; Biceps tendon transfer; Tendon advancement

Table 57: Summary of PRULO Report 4 (Biceps Tenodesis) Cases - Postoperative Events

Characteristic	$N = 27^1$	95% CI
Infection	0 (0)	0.00 - 16
Ligament Tendon (Retear)	0 (0)	0.00 - 16
Effusion	0 (0)	0.00 - 16
Pain	3.7 (1)	0.19 - 21
Hardware	0 (0)	0.00 - 16
Loosening	0 (0)	0.00 - 16
Instability	0 (0)	0.00 - 16
Stiffness	0 (0)	0.00 - 16
Neurological	0 (0)	0.00 - 16
Thrombosis	0 (0)	0.00 - 16
Other	0 (0)	0.00 - 16
Reoperation ²	0 (0)	0.00 - 16
Subsequent Treatment ³		
Not Applicable	100 (27)	84 - 100
10/ /)		

¹% (n)

9.4.5 Patient-Reported Outcomes

Complete case analysis of QDASH, WORC Normalised, and WORC Physical Q3 is summarised below.

²A theatre procedure subsequent to the index surgery that does not involve removal, replacement or modificat ³Management undertaken for procedures that have suffered tissue failure or required hardware removal or replacement. CI = Confidence Interval

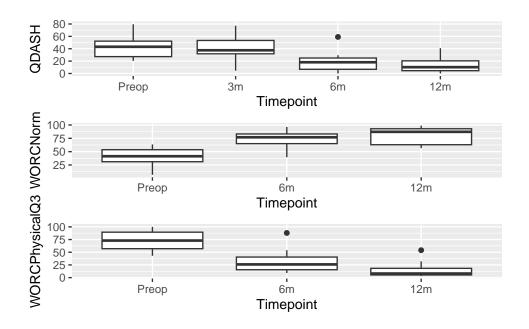


Figure 10: Complete case analysis of QDASH(Top), WORC Normalised (Middle) and WORC Physical Question 3 (Bottom).

Table 58: Summary of PRULO Report 4 (Biceps Tenodesis) Cases - QuickDASH

Characteristic	Preop N = 26 ¹	$3m N = 27^1$	6m N = 26 ¹	12m N = 25 ¹
QDASH	43 (27 - 52)	38 (32 - 55)	18 (7 - 25)	10 (5 - 25)
QDASHDelta	NA (NA - NA)	9 (-5 - 16)	27 (20 - 39)	39 (20 - 50)

¹Median (Q1 - Q3)

Table 59: Summary of PRULO Report 4 (Biceps Tenodesis) Cases - Western Ontario Rotator Cuff Index

77 (63 - 84) 87 (63 - 93)
26 (12 - 44) 8 (5 - 19)

¹Median (Q1 - Q3)

10 Product Report 5 - Milagro Advance BR

10.1 Sample Selection

The sample of patients with the relevant product group were identified and data were retrieved for analysis by matching registry records to the relevant stock keeping units (SKUs) for the product group of interest. Usage statistics for the product group were added, and adverse events data were

attached. Patient-reported data were retrieved and the dataset was manipulated to include relevant details for procedures of interest.

10.2 Overview

Usage of the Product within the patient group is summarised below.

There are 44 cases involving the anchor of interest. Surgeries were performed between 2021-Mar-02 and 2025-Jan-07. The procedures included [Cuff Repair; Tenodesis] [Cuff Repair] [Augmented Cuff Repair; Tenodesis] [Tenodesis; Labrum Repair] [Cuff Repair; Tenodesis; Capsulolabral Repair] [Cuff Repair; Tenotomy], and [Unknown; Labrum Repair]. There are 27 cases involving the anchor of interest and a rotator cuff repair. Surgeries were performed between 2021-Mar-02 to 2025-Jan-07. There are 36 cases involving the anchor of interest and a biceps tenodesis. Surgeries were performed between 2021-Mar-02 to 2025-Jan-07.

10.3 Procedure Report - Rotator Cuff Repair

10.3.1 Patient Characteristics

Patient demographic, pathology, and treatment characteristics for this cohort receiving the Product are summarised below.

Table 60: Summary of PRULO Report 5 (Rotator Cuff) Cases - Patient Characterist

Characteristic	Statistic	Overall N = 27 ¹	None N = 1	Tenodesis
Age at Initial Consultation (Years)	Median (Q1, Q3)	61 (52, 69)	65 (65, 65)	61 (55, 6
Male	% (n)	89 (24)	100 (1)	92 (23)
Cohort				
Rotator Cuff	% (n)	100 (27)	100 (1)	100 (25
Dominant Side	% (n)	52 (13)	0 (0)	52 (12)
Bilateral Presentation	% (n)	15 (4)	100 (1)	12 (3)
Symptom Duration (Weeks)	Median (Q1, Q3)	32 (20, 123)	195 (195, 195)	31 (18, 8
Symptom Duration Category ²				
<=0.5	% (n)	35 (7)	0 (0)	39 (7)
>0.5	% (n)	65 (13)	100 (1)	61 (11)
Treatment Record Active ³	% (n)	100 (27)	100 (1)	100 (25
Patient Record Active ⁴	% (n)	100 (27)	100 (1)	100 (25

¹Median (Q1, Q3); % (n)

²Dichotomised below or equal to 0.5 years or greater than 0.5 years

³Treatment record remains active - no change to follow up

⁴Patient record remains open - no change to consent or mortality status

10.3.2 Surgical Details

Table 61: Summary of PRULO Report 5 (Rotator Cuff) Cases - Pathology and Surgica

Characteristic	Overall N = 27 ¹	None N = 1 ¹	Tenodesis
Cuff Status			
Full Tear	89 (24)	100 (1)	88 (2
Partial Tear	11 (3)	0 (0)	12 (
Treatment Type			
Primary	100 (27)	100 (1)	100 (
Product Count			
1	100 (27)	100 (1)	100 (
2	0 (0)	0 (0)	0 (0
3	0 (0)	0 (0)	0 (0
4	0 (0)	0 (0)	0 (0
5	0 (0)	0 (0)	0 (0
Cuff Repair			
Augmented Cuff Repair	3.7 (1)	0 (0)	4.0 (
Cuff Repair	96 (26)	100 (1)	96 (2
Repair Augmentation			
None	96 (26)	100 (1)	96 (2
Other ²	3.7 (1)	0 (0)	4.0 (
Labrum			
Capsulolabral Repair	3.7 (1)	0 (0)	4.0 (
None	96 (26)	100 (1)	96 (2
Labrum Repair			
None	100 (26)	100 (1)	100 (
Capsule Ligament			
Capsulotomy	7.4 (2)	0 (0)	8.0
None	93 (25)	100 (1)	92 (2
Glenoid			
None	100 (27)	100 (1)	100 (
Adjunct Procedure			
None	63 (17)	0 (0)	68 (<i>1</i>
Subacromial Bursectomy; Acromioplasty	7.4 (2)	0 (0)	4.0
Subacromial Decompression	15 (4)	0 (0)	16 (
Subacromial Decompression; Distal Clavicle Resection	11 (3)	100 (1)	8.0
Subacromial Decompression; Subacromial Bursectomy	3.7 (1)	0 (0)	4.0 (

¹% (n)

Table 63: Summary of PRULO Report 5 (Rotator Cuff) Cases - Intraoperative Events

²Biceps tendon integration; Biceps tendon transfer; Tendon advancement

10.3.3 Treatment Survival

The mean follow up duration is 2.3 years, with a standard deviation of 1.16 years.

Failure or revision events as identified in the registry for this cohort are summarised below.

Table 62: Summary of PRULO Report 5 (Rotator Cuff) Cases - Procedure Survival

Characteristic	1 Weeks ¹	26 Weeks ¹	52 Weeks ¹	104 We
Procedure Survival	100% (100% - 100%)	100% (100% - 100%)	100% (100% - 100%)	100% (100%

^{1%} survival with 95% confidence intervals

10.3.4 Adverse Events

Complications and adverse events are summarised below.

Table 64: Summary of PRULO Report 5 (Rotator Cuff) Cases - Postoperative Events

Characteristic	$N = 27^1$	95% CI
Infection	0 (0)	0.00 - 16
Ligament Tendon (Retear)	0 (0)	0.00 - 16
Effusion	0 (0)	0.00 - 16
Pain	3.7 (1)	0.19 - 21
Hardware	0 (0)	0.00 - 16
Loosening	0 (0)	0.00 - 16
Instability	0 (0)	0.00 - 16
Stiffness	0 (0)	0.00 - 16
Neurological	0 (0)	0.00 - 16
Thrombosis	0 (0)	0.00 - 16
Other ²	0 (0)	0.00 - 16
Reoperation ³	0 (0)	0.00 - 16
Subsequent Treatment ⁴		
Not Applicable	100 (27)	84 - 100

¹% (n)

²Myocardial Infarction

³A theatre procedure subsequent to the index surgery that does not involve removal, replacement or modificat

⁴Management undertaken for procedures that have suffered tissue failure or required hardware removal or repaired hardware removal or removal or

10.3.5 Patient-Reported Outcomes

Complete case analysis of QDASH, WORC Index Normalised, and WORC Physical Question 3 (How much weakness do you experience in your shoulder?) is summarised below.

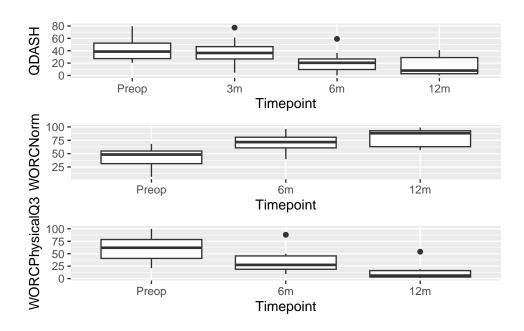


Figure 11: Complete case analysis of QuickDASH(Top), WORC Normalised (Middle) and WORC Physical Question 3 (Bottom).

Table 65: Summary of PRULO Report 5 (Rotator Cuff) Cases - QuickDASH

Characteristic	Preop N = 26 ¹	$3m N = 27^1$	6m N = 26 ¹	12m N = 25 ¹
QDASH	39 (27 - 52)	36 (25 - 48)	20 (9 - 27)	8 (2 - 34)
QDASHDelta	NA (NA - NA)	11 (0 - 16)	23 (9 - 39)	39 (20 - 50)

¹Median (Q1 - Q3)

Table 66: Summary of PRULO Report 5 (Rotator Cuff) Cases - WORC Normalised and WORC (Physical) Q3

Characteristic	Preop N = 26 ¹	6m N = 26 ¹	12m N = 25 ¹
WORCNorm	48 (29 - 55)	72 (59 - 84)	88 (63 - 93)
WORCPhysicalQ3	62 (38 - 84)	28 (19 - 47)	6 (3 - 16)

Characteristic F	Preop N = 26^1	$6m N = 26^1$	$12m N = 25^1$
WORCDelta	NA (NA - NA)	35 (10 - 36)	38 (29 - 63)

¹Median (Q1 - Q3)

10.4 Procedure Report - Biceps Tenodesis

10.4.1 Patient Characteristics

Patient demographic, pathology, and treatment characteristics for this cohort receiving the Product are summarised below.

Table 67: Summary of PRULO Report 5 (Biceps Tenodesis) Cases - Patient Characteristics

Characteristic	Statistic	Tenodesis N = 36
Age at Initial Consultation (Years)	Median (Q1, Q3)	60 (52, 69)
Male	% (n)	83 (30)
Cohort		
Glenohumeral Instability	% (n)	11 (4)
Rotator Cuff	% (n)	89 (32)
Dominant Side	% (n)	56 (19)
Bilateral Presentation	% (n)	14 (5)
Symptom Duration Category ¹		
<=0.5	% (n)	26 (7)
>0.5	% (n)	74 (20)
Treatment Record Active ²	% (n)	97 (35)
Patient Record Active ³	% (n)	100 (36)

¹Dichotomised below or equal to 0.5 years or greater than 0.5 years

10.4.2 Surgical Details

Table 68: Summary of PRULO Report 5 (Biceps Tenodesis) Cases - Pathology and Surgical Details

Characteristic	$N = 36^{1}$
Cuff Status	
Full Tear	23 (72%)
Partial Tear	6 (19%)
Tendinopathy	3 (9.4%)
Treatment Type	

²Treatment record remains active - no change to follow up

³Patient record remains open - no change to consent or mortality status

Characteristic	$N = 36^{1}$
Primary	36 (100%)
Product Count	
1	36 (100%)
2	0 (0%)
3	0 (0%)
4	0 (0%)
5	0 (0%)
Cuff Repair	
Augmented Cuff Repair	1 (2.8%)
Cuff Repair	24 (67%)
None	11 (31%)
Repair Augmentation	
None	28 (97%)
Other ²	1 (3.4%)
Long Head Biceps Procedures	
Tenodesis	36 (100%)
Labrum	, ,
Capsulolabral Repair	2 (5.6%)
Labrum Repair	5 (14%)
None	29 (81%)
Labrum Repair	
Bankart	1 (2.9%)
None	29 (85%)
Other ²	3 (8.8%)
SLAP	1 (2.9%)
Capsule Ligament	
Capsulotomy	2 (5.6%)
None	34 (94%)
Glenoid	
Glenoplasty	1 (2.8%)
None	35 (97%)
Adjunct Procedure	
Acromioplasty	1 (2.8%)
Distal Clavicle Resection	1 (2.8%)
None	23 (64%)
Paralabral Cyst Excision	1 (2.8%)
Subacromial Bursectomy; Acromioplasty	1 (2.8%)
Subacromial Decompression	4 (11%)
Subacromial Decompression; Distal Clavicle Resection	4 (11%)
•	` ,

Table 70: Summary of PRULO Report 5 (Biceps Tenodesis) Cases - Intraoperative Events

Characteristic	$N = 36^1$
Subacromial Decompression; Subacromial Bursectomy	1 (2.8%)
1 (2)	

¹n (%)

10.4.3 Treatment Survival

The mean follow up duration is 2.1 years, with a standard deviation of 1.11 years.

Failure or revision events as identified in the registry for this cohort are summarised below.

Table 69: Summary of PRULO Report 5 (Biceps Tenodesis) Cases - Procedure Survival

Characteristic	1 Weeks ¹	26 Weeks ¹	52 Weeks ¹	104 Weel
Procedure Survival	100% (100% - 100%)	100% (100% - 100%)	100% (100% - 100%)	95% (87% - 1

^{1%} survival with 95% confidence intervals

10.4.4 Adverse Events

Complications and adverse events are summarised below.

Table 71: Summary of PRULO Report 5 (Biceps Tenodesis) Cases - Postoperative Events

Characteristic	$N = 36^{1}$	95% CI
Infection	0 (0)	0.00 - 12
Ligament Tendon (Retear)	2.8 (1)	0.15 - 16
Effusion	0 (0)	0.00 - 12
Pain	2.8 (1)	0.15 - 16
Hardware	0 (0)	0.00 - 12
Loosening	2.8 (1)	0.15 - 16
Instability	0 (0)	0.00 - 12
Stiffness	0 (0)	0.00 - 12
Neurological	0 (0)	0.00 - 12
Thrombosis	0 (0)	0.00 - 12
Other	0 (0)	0.00 - 12
Reoperation ²	2.8 (1)	0.15 - 16
Subsequent Treatment ³		
Nonoperative Management	2.8 (1)	0.15 - 16
Not Applicable	97 (35)	84 - 100

²Biceps tendon integration; Biceps tendon transfer; Tendon advancement

Characteristic	$N = 36^{1}$	95% CI

¹% (n)

10.4.5 Patient-Reported Outcomes

Complete case analysis of QDASH, WORC Normalised, and WORC Physical Q3 is summarised below.

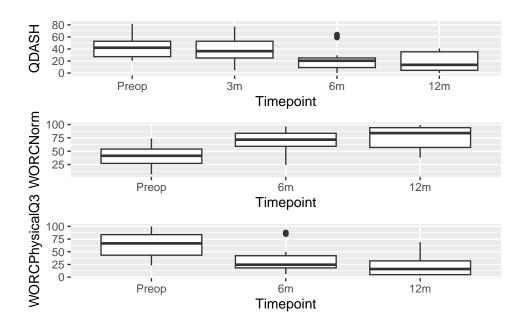


Figure 12: Complete case analysis of QDASH(Top), WORC Normalised (Middle), and WORC Physical Question 3 (Bottom)

Table 72: Summary of PRULO Report 5 (Biceps Tenodesis) Cases - QuickDASH

Characteristic	Preop N = 35 ¹	$3m N = 36^1$	6m N = 35 ¹	12m N = 33 ¹
QDASH	42 (27 - 53)	36 (25 - 53)	20 (9 - 25)	14 (5 - 36)
QDASHDelta	NA (NA - NA)	11 (-5 - 20)	25 (9 - 39)	20 (14 - 50)

¹Median (Q1 - Q3)

Table 73: Summary of PRULO Report 5 (Biceps Tenodesis) Cases - WORC Normalised

Characteristic	Preop N = 35 ¹	6m N = 35 ¹	12m N = 33 ¹
WORCNorm	41 (27 - 54)	72 (59 - 84)	84 (57 - 95)

²A theatre procedure subsequent to the index surgery that does not involve removal, replacement or modificat ³Management undertaken for procedures that have suffered tissue failure or required hardware removal or rep

Abbreviation: CI = Confidence Interval

Characteristic	Preop N = 35 ¹	6m N = 35 ¹	12m N = 33 ¹
WORCPhysicalQ3	67 (43 - 84)	25 (18 - 44)	16 (5 - 32)
1Madian (04 02)			

¹Median (Q1 - Q3)

11 Product Report 6 - Gryphon ProKnot BR

11.1 Sample Selection

The sample of patients with the relevant product group were identified and data were retrieved for analysis by matching registry records to the relevant stock keeping units (SKUs) for the product group of interest. Usage statistics for the product group were added, and adverse events data were attached. Patient-reported data were retrieved and the dataset was manipulated to include relevant details for procedures of interest.

11.2 Overview

Usage of the Product within the patient group is summarised below.

There are 66 cases involving the anchor of interest. Surgeries were performed between 2020-Dec-02 and 2024-Nov-14. The procedures included [Cuff Repair; Labrum Repair] [Tenodesis; Labrum Repair] [Tenodesis; Capsulolabral Repair] [Cuff Repair; Tenodesis; Capsulolabral Repair] [Cuff Repair; Tenodesis] [Cuff Repair; Capsulolabral Repair] [Labrum Repair] [Capsulotomy] [Labrum Repair; Capsular Shift] [Remplissage; Labrum Repair; Capsular Shift] [Tenodesis; Labrum Repair; Capsular Shift] [Remplissage; Capsulolabral Repair; Capsular Shift] [Remplissage; Capsulolabral Repair; Repair], and [Unknown; Labrum Repair].

There are 35 cases involving the anchor of interest and a Bankart repair. Surgeries were performed between 2021-Jul-01 to 2024-Mar-19.

There are 3 cases involving the anchor of interest and a SLAP repair. Surgeries were performed between 2022-Sep-20 to 2023-Nov-16. There is insufficient sample size to provide a report.

11.3 Procedure Report - All

11.3.1 Patient Characteristics

Patient demographic, pathology, and treatment characteristics for this cohort receiving the Product are summarised below.

Table 74: Summary of PRULO Report 6 (All) - Patient Characteristics

Characteristic	Statistic	N = 66
Age at Initial Consultation (Years)	Median (Q1, Q3)	29 (21, 38)
Male	% (n)	79 (52)
Cohort		

Characteristic	Statistic	N = 66
General	% (n)	14 (9)
Glenohumeral Instability	% (n)	76 (50)
Rotator Cuff	% (n)	11 (7)
Dominant Side	% (n)	51 (30)
Bilateral Presentation	% (n)	18 (12)
Symptom Duration (Weeks)	Median (Q1, Q3)	55 (22, 178)
Symptom Duration Category ¹		
<=0.5	% (n)	33 (13)
>0.5	% (n)	68 (27)
Treatment Record Active ²	% (n)	95 (63)
Patient Record Active ³	% (n)	100 (66)

¹Dichotomised below or equal to 0.5 years or greater than 0.5 years

11.3.2 Surgical Details

Table 75: Summary of PRULO Report 6 (All) Cases Pathology and Surgical Details

Characteristic	$N = 66^{1}$
Cuff Status	
Full Tear	3.6 (2)
Intact	88 (49)
Partial Tear	5.4 (3)
Tendinopathy	3.6 (2)
Treatment Type	
Primary	98 (65)
Revision Own	1.5 (1)
Product Count	
1	20 (13)
2	20 (13)
3	39 (26)
4	18 (12)
5	3.0 (2)
CuffRepair	
Cuff Repair	7.6 (5)
None	88 (58)

²Treatment record remains active - no change to follow up

³Patient record remains open - no change to consent or mortality status

Characteristic	$N = 66^{1}$
Remplissage	4.5 (3)
RepairAugmentation	
None	100 (49)
LongHeadBiceps	
None	82 (54)
Tenodesis	17 (11)
Unknown	1.5 (1)
Labrum	
Capsulolabral Repair	7.6 (5)
Labrum Repair	73 (48)
None	20 (13)
LabrumRepair	
Bankart	66 (35)
None	3.8 (2)
Not Repaired	9.4 (5)
Other ²	11 (6)
Posterior	3.8 (2)
SLAP	5.7 (3)
CapsuleLigament	
Capsular Shift	18 (12)
Capsulotomy	1.5 (1)
None	79 (52)
Repair	1.5 (1)
Glenoid	
Fracture fixation	5.2 (3)
Glenoplasty	34 (20)
None	60 (35)
AdjunctProcedure	
Chondral Debridement	1.7 (1)
Distal Clavicle Resection	1.7 (1)
None	79 (46)
Ostectomy	1.7 (1)
Paralabral Cyst Excision	6.9 (4)
Removal Loose Bodies	5.2 (3)
Subacromial Bursectomy	1.7 (1)
Subacromial Bursectomy; Acromioplasty	1.7 (1)

¹% (n)

²Labral tear uncategorised

11.3.3 Treatment Survival

The mean follow up duration is 2.4 years, with a standard deviation of 1.06 years.

Failure or revision events as identified in the registry for this cohort are summarised below.

Table 76: Summary of PRULO Report 6 (All) Cases - Procedure Survival

Characteristic	1 Weeks ¹	26 Weeks ¹	52 Weeks ¹	104 Weel
Procedure Survival	100% (100% - 100%)	100% (100% - 100%)	100% (100% - 100%)	96% (91% - 1

^{1%} survival with 95% confidence intervals

11.3.4 Adverse Events

Complications and adverse events are summarised below.

Table 77: Summary of PRULO Report 6 (All) Cases - Postoperative Events

Characteristic	$N = 66^{1}$
Infection	0 (0)
Ligament Tendon (Retear)	6 (4)
Effusion	0 (0)
Pain	0 (0)
Hardware	0 (0)
Loosening	3 (2)
Instability	3 (2)
Stiffness	5 (3)
Neurological	2 (1)
Thrombosis	0 (0)
Other	0 (0)
Reoperation ²	3 (2)
Subsequent Treatment ³	
New Procedure	2 (1)
Nonoperative Management	2 (1)
Not Applicable	97 (64)
Reoperation Delay (Weeks) ⁴	86.4 (3.3)

¹% (n); Mean (SD)

²A theatre procedure subsequent to the index surgery that does not involve removal, replacement or modificat

³Management undertaken for procedures that have suffered tissue failure or required hardware removal or rep

⁴Time between index procedure and reoperation

11.3.5 Patient-Reported Outcomes

Complete case analysis of QDASH and WOSI Index Normalised is summarised below.

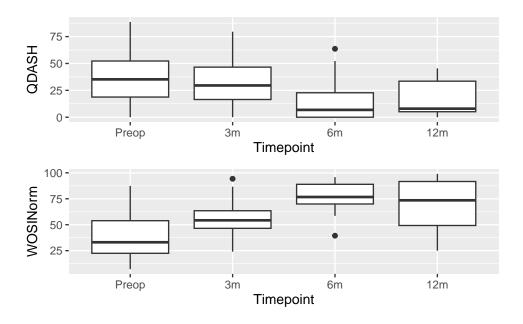


Figure 13: Complete case analysis of QDASH(Top), WOSI Index (Bottom)

Table 78: Summary of PRULO Report 6 (All) Cases - QuickDASH

Characteristic	Preop N = 65 ¹	3m N = 66 ¹	6m N = 64 ¹	12m N = 63 ¹
QDASH	35 (18 - 52)	30 (16 - 48)	7 (0 - 23)	8 (5 - 34)
QDASHDelta	NA (NA - NA)	-5 (-14 - 7)	14 (5 - 30)	16 (9 - 23)
WOSINorm	33 (22 - 55)	54 (47 - 63)	77 (67 - 90)	74 (49 - 92)
WOSIDelta	NA (NA - NA)	-57 (-7647)	32 (22 - 41)	44 (33 - 52)

¹Median (Q1 - Q3)

11.4 Procedure Report - Bankart Repair

11.4.1 Patient Characteristics

Patient demographic, pathology, and treatment characteristics for this cohort receiving the Product are summarised below.

Table 79: Summary of PRULO Report 6 (Bankart Repair) - Patient Characteristics

Characteristic	Statistic	N = 35
Age at Initial Consultation (Years)	Median (Q1, Q3)	22 (18, 31)
Male	% (n)	86 (30)

Characteristic	Statistic	N = 35
Cohort		
Glenohumeral Instability	% (n)	94 (33)
Rotator Cuff	% (n)	5.7 (2)
Dominant Side	% (n)	61 (20)
Bilateral Presentation	% (n)	20 (7)
Symptom Duration (Weeks)	Median (Q1, Q3)	39 (18, 139)
Symptom Duration Category ¹		
<=0.5	% (n)	46 (11)
>0.5	% (n)	54 (13)
Treatment Record Active ²	% (n)	97 (34)
Patient Record Active ³	% (n)	100 (35)

¹Dichotomised below or equal to 0.5 years or greater than 0.5 years

11.4.2 Surgical Details

Table 80: Summary of PRULO Report 6 (Bankart Repair) Cases Pathology and Surgical Details

Characteristic	$N = 35^1$
Cuff Status	
Full Tear	2.9 (1)
Intact	94 (33)
Tendinopathy	2.9 (1)
Treatment Type	
Primary	100 (35)
Product Count	
1	5.7 (2)
2	23 (8)
3	49 (17)
4	20 (7)
5	2.9 (1)
Cuff Repair	
Cuff Repair	5.7 (2)
None	86 (30)
Remplissage	8.6 (3)
Repair Augmentation	

²Treatment record remains active - no change to follow up

³Patient record remains open - no change to consent or mortality status

Characteristic	$N = 35^1$
None	100 (31)
LongHeadBiceps	
None	97 (34)
Tenodesis	2.9 (1)
Labrum	
Capsulolabral Repair	5.7 (2)
Labrum Repair	94 (33)
Labrum Repair	
Bankart	100 (35)
Capsule Ligament	
Capsular Shift	29 (10)
None	69 (24)
Repair	2.9 (1)
Glenoid	
Fracture fixation	5.7 (2)
Glenoplasty	46 (16)
None	49 (17)
Adjunct Procedure	
Chondral Debridement	2.9 (1)
None	83 (29)
Ostectomy	2.9 (1)
Paralabral Cyst Excision	2.9 (1)
Removal Loose Bodies	8.6 (3)

¹% (n)

11.4.3 Treatment Survival

The mean follow up duration is 2.3 years, with a standard deviation of 0.77 years.

Failure or revision events as identified in the registry for this cohort are summarised below.

Table 81: Summary of PRULO Report 6 (Bankart Repair) Procedure Survival

Characteristic	1 Weeks ¹	26 Weeks ¹	52 Weeks ¹	104 Weel
Procedure Survival	100% (100% - 100%)	100% (100% - 100%)	100% (100% - 100%)	97% (91% - 1

¹% survival with 95% confidence intervals

11.4.4 Adverse Events

Complications and adverse events are summarised below.

Table 82: Summary of PRULO Report 6 (Bankart Repair) Cases - Intraoperative Events

Table 83: Summary of PRULO Report 6 (Bankart Repair) Cases - Postoperative Events

Characteristic	N = 35 ¹	
Infection	0 (0)	
Ligament Tendon (Retear)	6 (2)	
Effusion	0 (0)	
Pain	0 (0)	
Hardware	0 (0)	
Loosening	0 (0)	
Instability	6 (2)	
Stiffness	3 (1)	
Neurological	0 (0)	
Thrombosis	0 (0)	
Other	0 (0)	
Reoperation ²	3 (1)	
Subsequent Treatment ³		
New Procedure	3 (1)	
Not Applicable	97 (34)	
Reoperation Delay (Weeks) ⁴	88.7 (NA)	

¹% (n); Mean (SD)

11.4.5 Patient-Reported Outcomes

Complete case analysis of QuickDASH and WOSI Index Normalised are summarised below.

²A theatre procedure subsequent to the index surgery that does not involve removal, replacement or modificat

³Management undertaken for procedures that have suffered tissue failure or required hardware removal or rep

⁴Time between index procedure and reoperation

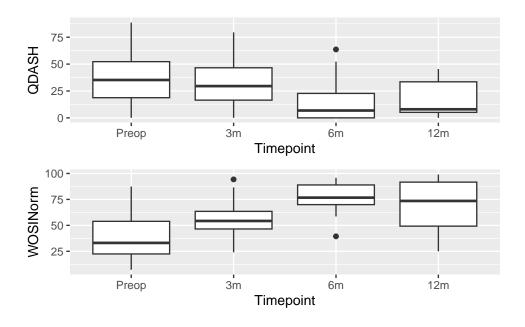


Figure 14: Complete case analysis of QDASH(Top), WOSI Index (Bottom)

Table 84: Summary of PRULO Report 6 (Bankart Repair) Cases - QuickDASH and WOSI Normalised

Characteristic	Preop N = 35 ¹	$3m N = 35^1$	6m N = 35 ¹	12m N = 35 ¹
QDASH	27 (16 - 55)	24 (15 - 39)	16 (2 - 23)	7 (0 - 32)
WOSINorm	32 (22 - 56)	57 (48 - 76)	76 (60 - 82)	78 (59 - 91)

¹Median (Q1 - Q3)

12 Product Report 7 - Gryphon BR with Orthocord

12.1 Sample Selection

The sample of patients with the relevant product group were identified and data were retrieved for analysis by matching registry records to the relevant stock keeping units (SKUs) for the product group of interest. Usage statistics for the product group were added, and adverse events data were attached. Patient-reported data were retrieved and the dataset was manipulated to include relevant details for procedures of interest.

12.2 Overview

Usage of the Product within the patient group is summarised below.

There are 39 cases involving the anchor of interest. Surgeries were performed between 2021-Apr-20 and 2024-Nov-14. The procedures included [Labrum Repair] [Capsulolabral Repair; Other] [Capsulotomy] [Cuff Repair; Labrum Repair] [Labrum Repair; Capsular Shift] [Remplissage; Labrum Repair; Capsular Shift] [Tenodesis; Labrum Repair; Capsular Shift] [Remplissage; Labrum Repair] [Capsulolabral Repair; Capsular Shift], and [Remplissage; Capsulolabral Repair; Repair].

There are 28 cases involving the anchor of interest and a Bankart repair. Surgeries were performed between 2021-Jul-01 to 2024-Mar-19.

There is 0 case(s) involving the anchor of interest and a SLAP repair. There is insufficient sample size to provide a report.

12.3 Procedure Report - All

12.3.1 Patient Characteristics

Patient demographic, pathology, and treatment characteristics for this cohort receiving the Product are summarised below.

Table 85: Summary of PRULO Report 7 (All) - Patient Characteristics

Characteristic	Statistic	N = 39
Age at Initial Consultation (Years)	Median (Q1, Q3)	22 (18, 28)
Male	% (n)	79 (31)
Cohort		
General	% (n)	7.7 (3)
Glenohumeral Instability	% (n)	90 (35)
Rotator Cuff	% (n)	2.6 (1)
Dominant Side	% (n)	56 (20)
Bilateral Presentation	% (n)	26 (10)
Symptom Duration (Weeks)	Median (Q1, Q3)	45 (20, 150)
Symptom Duration Category ¹		
<=0.5	% (n)	39 (9)
>0.5	% (n)	61 (14)
Treatment Record Active ²	% (n)	97 (38)
Patient Record Active ³	% (n)	100 (39)

¹Dichotomised below or equal to 0.5 years or greater than 0.5 years

12.3.2 Surgical Details

²Treatment record remains active - no change to follow up

³Patient record remains open - no change to consent or mortality status

Table 86: Summary of PRULO Report 7 (All) Cases Pathology and Surgical Details

Characteristic	$N = 39^{1}$
Cuff Status	
Intact	100 (35)
Treatment Type	
Primary	100 (39)
Product Count	
1	87 (34)
2	13 (5)
3	0 (0)
4	0 (0)
5	0 (0)
Cuff Repair	
Cuff Repair	2.6 (1)
None	90 (35)
Remplissage	7.7 (3)
Repair Augmentation	
None	100 (30)
LongHeadBiceps	
None	95 (37)
Tenodesis	5.1 (2)
Labrum	
Capsulolabral Repair	7.7 (3)
Labrum Repair	74 (29)
None	18 (7)
Labrum Repair	
Bankart	80 (28)
None	2.9 (1)
Not Repaired	8.6 (3)
Other ²	8.6 (3)
Capsule Ligament	
Capsular Shift	31 (12)
Capsulotomy	2.6 (1)
None	62 (24)
Other ²	2.6 (1)
Repair	2.6 (1)
Glenoid	
Fracture fixation	8.6 (3)
Glenoplasty	43 (15)

Characteristic	$N = 39^{1}$
Latarjet	5.7 (2)
None	43 (15)
Adjunct Procedure	
Chondral Debridement	2.9 (1)
None	89 (31)
Ostectomy	2.9 (1)
Removal Loose Bodies	5.7 (2)
10/ ₂ (p)	

¹% (n)

12.3.3 Treatment Survival

The mean follow up duration is 2.3 years, with a standard deviation of 0.99 years.

Failure or revision events as identified in the registry for this cohort are summarised below.

Table 87: Summary of PRULO Report 7 (Rotator Cuff) - Procedure Survival

Characteristic	1 Weeks ¹	26 Weeks ¹	52 Weeks ¹	104 Weel
Procedure Survival	100% (100% - 100%)	100% (100% - 100%)	100% (100% - 100%)	97% (91% - 1

^{1%} survival with 95% confidence intervals

12.3.4 Adverse Events

Complications and adverse events are summarised below.

Table 88: Summary of PRULO Report 7 (All) Cases - Postoperative Events

Characteristic	$N = 39^{1}$	
Infection	0 (0)	
Ligament Tendon (Retear)	8 (3)	
Effusion	0 (0)	
Pain	3 (1)	
Hardware	0 (0)	
Loosening	3 (1)	
Instability	5 (2)	
Stiffness	3 (1)	
Neurological	0 (0)	
Thrombosis	0 (0)	
Other	0 (0)	
Reoperation ²	5 (2)	

²Labral tear uncategorised

Characteristic	N = 39 ¹
Subsequent Treatment ³	
New Procedure	3 (1)
Not Applicable	97 (38)
Reoperation Delay (Weeks) ⁴	61.4 (38.7)

¹% (n); Mean (SD)

12.3.5 Patient-Reported Outcomes

Complete case analysis of QDASH and WOSI Index Normalised is summarised below.

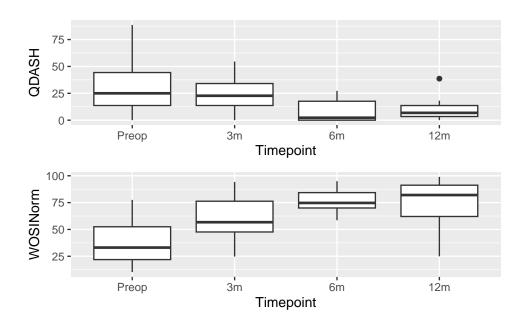


Figure 15: Complete case analysis of QuickDASH and WOSI Normalised

::: {#tbl-TableRep75 .cell tbl-cap=' Summary of PRULO Report 7 (All) Cases - QuickDASH'} ::: {.cell-output-display}

Characteristic	Preop N = 39 ¹	$3m N = 39^1$	6m N = 38 ¹	12m N = 37 ¹
QDASH	25 (14 - 48)	23 (14 - 34)	2 (0 - 19)	7 (0 - 18)
QDASHDelta	NA (NA - NA)	-7 (-14 - 25)	12 (9 - 23)	14 (2 - 23)
WOSINorm	33 (22 - 53)	57 (47 - 77)	75 (67 - 87)	82 (59 - 91)
WOSIDelta	NA (NA - NA)	-59 (-7948)	33 (30 - 36)	44 (36 - 58)

¹Median (Q1 - Q3)

²A theatre procedure subsequent to the index surgery that does not involve removal, replacement or modificat

³Management undertaken for procedures that have suffered tissue failure or required hardware removal or rep

⁴Time between index procedure and reoperation

::: :::

12.4 Procedure Report - Bankart Repair

12.4.1 Patient Characteristics

Patient demographic, pathology, and treatment characteristics for this cohort receiving the Product are summarised below.

Table 90: Summary of PRULO Report 7 (Bankart Repair) - Patient Characteristics

Characteristic	Statistic	N = 28
Age at Initial Consultation (Years)	Median (Q1, Q3)	22 (18, 24)
Male	% (n)	82 (23)
Cohort		
Glenohumeral Instability	% (n)	100 (28)
Dominant Side	% (n)	59 (16)
Bilateral Presentation	% (n)	25 (7)
Symptom Duration (Weeks)	Median (Q1, Q3)	43 (21, 108)
Symptom Duration Category ¹		
<=0.5	% (n)	40 (8)
>0.5	% (n)	60 (12)
Treatment Record Active ²	% (n)	96 (27)
Patient Record Active ³	% (n)	100 (28)

¹Dichotomised below or equal to 0.5 years or greater than 0.5 years

12.4.2 Surgical Details

Table 91: Summary of PRULO Report 7 (Bankart Repair) Cases - Pathology and Surgical Details

Characteristic	$N = 28^1$
Cuff Status	
Intact	100 (28)
Treatment Type	
Primary	100 (28)
Product Count	
1	89 (25)
2	11 (3)

²Treatment record remains active - no change to follow up

³Patient record remains open - no change to consent or mortality status

Characteristic	N = 28 ¹
3	0 (0)
4	0 (0)
5	0 (0)
Cuff Repair	0 (0)
Cuff Repair	3.6 (1)
None	86 (24)
Remplissage	11 (3)
Repair Augmentation	11 (0)
None	100 (25)
LongHeadBiceps	100 (20)
None	100 (28)
Labrum	100 (20)
Capsulolabral Repair	11 (3)
Labrum Repair	89 (25)
Labrum Repair	00 (20)
Bankart	100 (28)
Capsule Ligament	100 (20)
Capsular Shift	36 (10)
None	57 (16)
Other ²	3.6 (1)
Repair	3.6 (1)
Glenoid	0.0 (1)
Fracture fixation	7.1 (2)
Glenoplasty	46 (13)
Latarjet	3.6 (1)
None	43 (12)
Adjunct Procedure	10 (12)
Chondral Debridement	3.6 (1)
None	86 (24)
Ostectomy	3.6 (1)
Removal Loose Bodies	7.1 (2)
10/2 (p)	. ,

¹% (n)

12.4.3 Treatment Survival

The mean follow up duration is 2.2 years, with a standard deviation of 0.82 years.

Failure or revision events as identified in the registry for this cohort are summarised below.

²Labral tear uncategorised

Table 93: Summary of PRULO Report 7 (Bankart Repair) Cases - Intraoperative Events

Table 92: Summary of PRULO Report 7 (Bankart Repair) Cases - Procedure Survival

Characteristic	1 Weeks ¹	26 Weeks ¹	52 Weeks ¹	104 Weel
Procedure Survival	100% (100% - 100%)	100% (100% - 100%)	100% (100% - 100%)	96% (88% - 1

¹% survival with 95% confidence intervals

12.4.4 Adverse Events

Complications and adverse events are summarised below.

Table 94: Summary of PRULO Report 7 (Bankart Repair) Cases - Postoperative Events

Characteristic	N = 28 ¹
Infection	0 (0)
Ligament Tendon (Retear)	7 (2)
Effusion	0 (0)
Pain	0 (0)
Hardware	0 (0)
Loosening	0 (0)
Instability	7 (2)
Stiffness	4 (1)
Neurological	0 (0)
Thrombosis	0 (0)
Other	0 (0)
Reoperation ²	4 (1)
Subsequent Treatment ³	
New Procedure	4 (1)
Not Applicable	96 (27)
Reoperation Delay (Weeks) ⁴	88.7 (NA)

¹% (n); Mean (SD)

12.4.5 Patient-Reported Outcomes

Complete case analysis of QuickDASH and WOSI Index Normalised is summarised below.

²A theatre procedure subsequent to the index surgery that does not involve removal, replacement or modificat

³Management undertaken for procedures that have suffered tissue failure or required hardware removal or rep

⁴Time between index procedure and reoperation

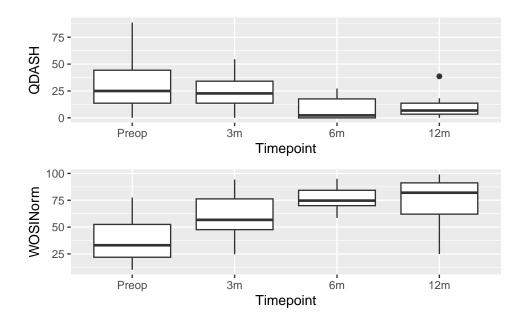


Figure 16: Complete case analysis of QuickDASH and WOSI Normalised

Table 95: Summary of PRULO Report 7 (Bankart Repair) Cases - QuickDASH and WOSI Normalised

Characteristic	Preop N = 28 ¹	$3m N = 28^1$	6m N = 28 ¹	12m N = 28 ¹
QDASH	25 (18 - 55)	24 (14 - 34)	16 (2 - 23)	7 (0 - 18)
WOSINorm	32 (22 - 51)	54 (48 - 76)	74 (60 - 82)	78 (59 - 91)

¹Median (Q1 - Q3)

13 Product Report 8 - Gryphon BR with Dynacord

13.1 Sample Selection

The sample of patients with the relevant product group were identified and data were retrieved for analysis by matching registry records to the relevant stock keeping units (SKUs) for the product group of interest. Usage statistics for the product group were added, and adverse events data were attached. Patient-reported data were retrieved and the dataset was manipulated to include relevant details for procedures of interest.

13.2 Overview

Usage of the Product within the patient group is summarised below.

There are 2 cases involving the anchor of interest. Surgeries were performed between 2022-Jul-12 and 2022-Aug-16. The procedures included [Labrum Repair].

Table 96: Summary of PRULO Report 9 (All) Cases - Intraoperative Events

TreatmentID	Description	Intervention	PostopManagement
2729.1	grphon anchor came out	Modified surgical technique	No

There is 1 case involving the anchor of interest. There is insufficient sample size to provide a report.

14 Product Report 9 - Gryphon PEEK with Dynacord

14.1 Sample Selection

The sample of patients with the relevant product group were identified and data were retrieved for analysis by matching registry records to the relevant stock keeping units (SKUs) for the product group of interest. Usage statistics for the product group were added, and adverse events data were attached. Patient-reported data were retrieved and the dataset was manipulated to include relevant details for procedures of interest.

14.2 Overview

Usage of the Product within the patient group is summarised below.

There are 9 cases involving the anchor of interest. Surgeries were performed between 2022-May-19 and 2024-Sep-25. The procedures included [Labrum Repair] [Remplissage; Labrum Repair], and [Remplissage; Labrum Repair; Capsular Shift].

There are 6 cases involving the anchor of interest and a Bankart repair. Surgeries were performed between 2022-May-19 to 2024-Jun-12.

14.3 Adverse Events

Complications and adverse events are summarised below.

Intraoperative events occurred in 1 of 9 cases (11.1%, 95% CI: 2%-43.5%).

Table 97: Summary of PRULO Report 4 (Rotator Cuff) Cases - Postoperative Events

Characteristic	$N = 9^1$	95% CI
Infection	0 (0)	0.00 - 37
Ligament Tendon (Retear)	0 (0)	0.00 - 37
Effusion	0 (0)	0.00 - 37
Pain	0 (0)	0.00 - 37
Hardware	0 (0)	0.00 - 37

Characteristic	$N = 9^1$	95% CI
Loosening	33 (3)	9.0 - 69
Instability	0 (0)	0.00 - 37
Stiffness	22 (2)	3.9 - 60
Neurological	0 (0)	0.00 - 37
Thrombosis	0 (0)	0.00 - 37
Other ²	0 (0)	0.00 - 37
Reoperation ³	22 (2)	3.9 - 60
Subsequent Treatment	1 4	
Not Applicable	100 (9)	63 - 100
10/ ()		

¹% (n)

15 Product Report 10 - Latarjet Screw

15.1 Sample Selection

The sample of patients with the relevant product group were identified and data were retrieved for analysis by matching registry records to the relevant stock keeping units (SKUs) for the product group of interest. Usage statistics for the product group were added, and adverse events data were attached. Patient-reported data were retrieved and the dataset was manipulated to include relevant details for procedures of interest.

15.2 Overview

Usage of the Product within the patient group is summarised below.

There are 13 cases involving the anchor of interest. Surgeries were performed between 2021-Feb-10 and 2024-Jul-17. The procedures included [Capsulolabral Repair; Other] [Labrum Repair] [Tenodesis; Labrum Repair; Capsular Shift] [Capsulotomy], and [Labrum Repair; Capsular Shift].

15.3 Procedure Report - All

15.3.1 Patient Characteristics

Patient demographic, pathology, and treatment characteristics for this cohort receiving the Product are summarised below.

²Myocardial Infarction

³A theatre procedure subsequent to the index surgery that does not involve removal, replacement or modificat

⁴Management undertaken for procedures that have suffered tissue failure or required hardware removal or repaired Abbreviation: CI = Confidence Interval

Table 98: Summary of PRULO Report 10 (All) - Patient Characteristics

Characteristic	Statistic	N = 13
Age at Initial Consultation (Years)	Median (Q1, Q3)	24.0 (21.0, 30.0)
Male	% (n)	100 (13)
Cohort		
Glenohumeral Instability	% (n)	100 (13)
Dominant Side	% (n)	67 (4)
Bilateral Presentation	% (n)	7.7 (1)
Symptom Duration Category ¹		
<=0.5	% (n)	20 (1)
>0.5	% (n)	80 (4)
Treatment Record Active ²	% (n)	100 (13)
Patient Record Active ³	% (n)	100 (13)

¹Dichotomised below or equal to 0.5 years or greater than 0.5 years

15.3.2 Surgical Details

Table 99: Summary of PRULO Report 10 (All) Cases - Pathology and Surgical Details

$N = 13^1$
100 (11)
85 (11)
7.7 (1)
7.7 (1)
85 (11)
0 (0)
0 (0)
15 (2)
0 (0)
100 (13)
100 (13)

²Treatment record remains active - no change to follow up

³Patient record remains open - no change to consent or mortality status

Characteristic	$N = 13^{1}$
LongHeadBiceps	
None	92 (12)
Tenodesis	7.7 (1)
Labrum	
Capsulolabral Repair	7.7 (1)
Labrum Repair	38 (5)
None	54 (7)
Labrum Repair	
Bankart	27 (3)
None	9.1 (1)
Not Repaired	36 (4)
Other ²	18 (2)
Posterior	9.1 (1)
Capsule Ligament	
Capsular Shift	15 (2)
Capsulotomy	7.7 (1)
None	69 (9)
Other ²	7.7 (1)
Glenoid	
Latarjet	64 (7)
None	36 (4)
Adjunct Procedure	
None	100 (11)
¹ % (n)	

15.3.3 Treatment Survival

The mean follow up duration is 3.1 years, with a standard deviation of 0.91 years.

Failure or revision events as identified in the registry for this cohort are summarised below.

Table 100: Summary of PRULO Report 10 (All) - Procedure Survival

Characteristic	1 Weeks ¹	26 Weeks ¹	52 Weeks ¹	104 We
Procedure Survival	100% (100% - 100%)	100% (100% - 100%)	100% (100% - 100%)	100% (100%

^{1%} survival with 95% confidence intervals

²Labral tear uncategorised

15.3.4 Adverse Events

Complications and adverse events are summarised below.

Table 102: Summary of PRULO Report 10 (All) Cases - Postoperative Events

Characteristic	N = 13 ¹	95% CI
Infection	0 (0)	0.00 - 28
Ligament Tendon (Retear)	0 (0)	0.00 - 28
Effusion	0 (0)	0.00 - 28
Pain	0 (0)	0.00 - 28
Hardware	15 (2)	2.7 - 46
Loosening	0 (0)	0.00 - 28
Instability	0 (0)	0.00 - 28
Stiffness	0 (0)	0.00 - 28
Neurological	0 (0)	0.00 - 28
Thrombosis	0 (0)	0.00 - 28
Other	0 (0)	0.00 - 28
Reoperation ²	15 (2)	2.7 - 46
Subsequent Treatment ³		
Not Applicable	100 (13)	72 - 100
Reoperation Delay (Weeks) ⁴	31.5 (9.2)	-51 - 114

¹% (n); Mean (SD)

Abbreviation: CI = Confidence Interval

15.3.5 Patient-Reported Outcomes

Complete case analysis of QuickDASH and WOSI Index Normalised is summarised below.

²A theatre procedure subsequent to the index surgery that does not involve removal, replacement or modificat

³Management undertaken for procedures that have suffered tissue failure or required hardware removal or rep

⁴Time between index procedure and reoperation

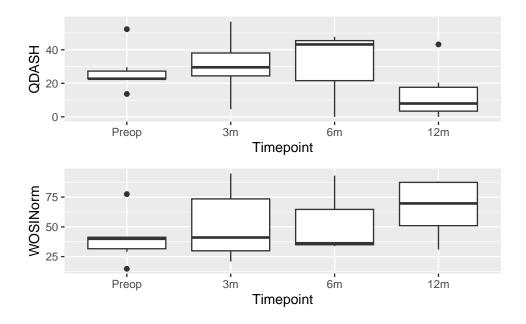


Figure 17: Complete case analysis of QuickDASH (Top) and WOSI Index Normalised (Bottom).

Table 103: Summary of PRULO Report 10 (All) Cases - QuickDASH and WOSI

Characteristic	Preop N = 11 ¹	$3m N = 13^1$	6m N = 13 ¹	12m N = 12 ¹
QDASH	23 (23 - 30)	30 (24 - 44)	43 (0 - 48)	8 (2 - 20)
QDASHDelta	NA (NA - NA)	-3 (-5 - 0)	19 (9 - 30)	15 (6 - 25)
WOSINorm	40 (29 - 42)	41 (28 - 76)	36 (34 - 93)	70 (51 - 87)
WOSIDelta	NA (NA - NA)	-59 (-8234)	43 (21 - 64)	48 (16 - 58)

¹Median (Q1 - Q3)

16 Product Report 11 - Dynacord Freestrand Suture

16.1 Sample Selection

The sample of patients with the relevant product group were identified and data were retrieved for analysis by matching registry records to the relevant stock keeping units (SKUs) for the product group of interest. Usage statistics for the product group were added, and adverse events data were attached. Patient-reported data were retrieved and the dataset was manipulated to include relevant details for procedures of interest.

16.2 Overview

Usage of the Product within the patient group is summarised below.

There are 10 cases involving the anchor of interest. Surgeries were performed between 2020-Dec-22 and 2025-Jan-07. The procedures included [Cuff Repair] [Cuff Repair; Tenodesis] [Augmented Cuff Repair; Capsular Reconstruction] [Cuff Repair; Tenotomy; Capsulotomy], and [Labrum Repair].

There are 7 cases involving the suture of interest and a Cuff repair. Surgeries were performed between 2021-Apr-15 to 2025-Jan-07. The procedures included Rotator Cuff Repair; Calcific tendinopathy, Rotator Cuff Repair, Rotator Cuff Repair; Biceps Tenodesis; Biceps Tenotomy; Subacromial Decompression, Rotator Cuff Repair; bicep transfer to reinforce supra repair, Rotator Cuff Repair; Biceps Tenodesis.

There are 2 cases involving the suture of interest and a Biceps Tenodesis. Surgeries were performed between 2021-Jul-08 to 2022-Sep-22. There is insufficient sample size to provide a report.

16.3 Procedure Report - Rotator Cuff Repair

16.3.1 Patient Characteristics

Patient demographic, pathology, and treatment characteristics for this cohort receiving the Product are summarised below.

Table 104: Summary of PRULO Report 11 (Rotator Cuff) Case - Patient Characterist

Characteristic	Statistic	Overall N = 7 ¹	None N = 4	Tenodesis
Age at Initial Consultation (Years)	Median (Q1, Q3)	54.0 (49.0, 56.0)	54.5 (51.5, 59.5)	46.5 (42.0,
Male	% (n)	57 (4)	50 (2)	100 (2)
Cohort				
Rotator Cuff	% (n)	100 (7)	100 (4)	100 (2)
Dominant Side	% (n)	100 (3)	100 (2)	NA (0)
Bilateral Presentation				
No	% (n)	100 (7)	100 (4)	100 (2)
Symptom Duration (Weeks)	Median (Q1, Q3)	33 (12, 53)	12 (12, 12)	NA (NA, N
Symptom Duration Category ²				
<=0.5	% (n)	50 (1)	100 (1)	NA (0)
>0.5	% (n)	50 (1)	0 (0)	NA (0)
Treatment Record Active ³	% (n)	100 (7)	100 (4)	100 (2)
Patient Record Active ⁴	% (n)	100 (7)	100 (4)	100 (2)

¹Median (Q1, Q3); % (n)

16.3.2 Surgical Details

²Dichotomised below or equal to 0.5 years or greater than 0.5 years

³Treatment record remains active - no change to follow up

⁴Patient record remains open - no change to consent or mortality status

Table 105: Summary of PRULO Report 11 (Rotator Cuff) Cases - Pathology and Surgical Details

Characteristic	Overall N = 7 ¹	None $N = 4^1$	Tenodesis N = 2 ¹	Tenotomy N =
Cuff Status				
Full Tear	71 (5)	75 (3)	50 (1)	100 (1)
Other ²	14 (1)	25 (1)	0 (0)	0 (0)
Partial Tear	14 (1)	0 (0)	50 (1)	0 (0)
Treatment Type				
Primary	100 (7)	100 (4)	100 (2)	100 (1)
Product Count				
1	71 (5)	75 (3)	50 (1)	100 (1)
2	29 (2)	25 (1)	50 (1)	0 (0)
3	0 (0)	0 (0)	0 (0)	0 (0)
4	0 (0)	0 (0)	0 (0)	0 (0)
5	0 (0)	0 (0)	0 (0)	0 (0)
Cuff Repair				
Augmented Cuff Repair	14 (1)	25 (1)	0 (0)	0 (0)
Cuff Repair	86 (6)	75 (3)	100 (2)	100 (1)
Repair Augmentation				
None	86 (6)	75 (3)	100 (2)	100 (1)
Superior Capsular	14 (1)	25 (1)	0 (0)	0 (0)
Labrum				
None	100 (7)	100 (4)	100 (2)	100 (1)
Labrum Repair				
None	100 (7)	100 (4)	100 (2)	100 (1)
Capsule Ligament				
Capsular Reconstruction	14 (1)	25 (1)	0 (0)	0 (0)
Capsulotomy	14 (1)	0 (0)	0 (0)	100 (1)
None	71 (5)	75 (3)	100 (2)	0 (0)
Glenoid				
None	100 (7)	100 (4)	100 (2)	100 (1)
Adjunct Procedure				
Calcific Tendonitis Excision	14 (1)	25 (1)	0 (0)	0 (0)
None	71 (5)	75 (3)	50 (1)	100 (1)
Subacromial Decompression	14 (1)	0 (0)	50 (1)	0 (0)

¹% (n)

 $^{^2\}mbox{Biceps}$ tendon integration; Biceps tendon transfer; Tendon advancement

16.3.3 Treatment Survival

The mean follow up duration is 2.7 years, with a standard deviation of 1.23 years.

Failure or revision events as identified in the registry for this cohort are summarised below.

Table 106: Summary of PRULO Report 11 (Rotator Cuff) Cases - Procedure Survival

Characteristic	1 Weeks ¹	26 Weeks ¹	52 Weeks ¹	104 Wee
Procedure Survival	100% (100% - 100%)	100% (100% - 100%)	100% (100% - 100%)	100% (100%

¹% survival with 95% confidence intervals

16.3.4 Adverse Events

Complications and adverse events are summarised below.

Table 108: Summary of PRULO Report 11 (Rotator Cuff) Cases - Postoperative Events

Characteristic	$N = 7^1$	95% CI
Infection	0 (0)	0.00 - 44
Ligament Tendon (Retear)	0 (0)	0.00 - 44
Effusion	0 (0)	0.00 - 44
Pain	0 (0)	0.00 - 44
Hardware	0 (0)	0.00 - 44
Loosening	0 (0)	0.00 - 44
Instability	0 (0)	0.00 - 44
Stiffness	14 (1)	0.75 - 58
Neurological	0 (0)	0.00 - 44
Thrombosis	0 (0)	0.00 - 44
Other ²	0 (0)	0.00 - 44
Reoperation ³	14 (1)	0.75 - 58
Subsequent Treatment ⁴		
Not Applicable	100 (7)	56 - 100

¹% (n)

²Myocardial Infarction

³A theatre procedure subsequent to the index surgery that does not involve removal, replacement or modificat

⁴Management undertaken for procedures that have suffered tissue failure or required hardware removal or rep Abbreviation: CI = Confidence Interval

16.3.5 Patient-Reported Outcomes

Complete case analysis of QDASH, WORC Index Normalised, and WORC Physical Question 3 (How much weakness do you experience in your shoulder?) is summarised below.

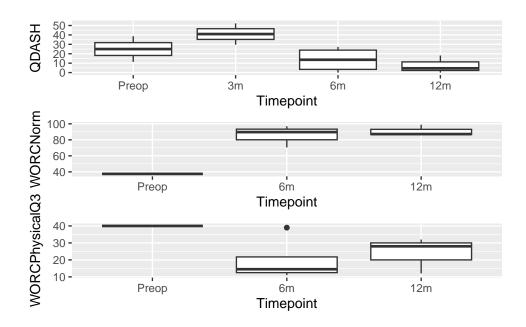


Figure 18: Complete case analysis of QDASH(Top), WORC Index Normalised (Middle), and WORC Physical Question 3 (Bottom)

Table 109: Summary of PRULO Report 11 (Rotator Cuff) Cases - QuickDASH

Characteristic	Preop N = 5 ¹	$3m N = 7^1$	6m N = 6 ¹	12m N = 6 ¹
QDASH	25 (11 - 39)	41 (30 - 52)	14 (2 - 25)	5 (0 - 18)
1.4 11 (0.4 0.0	`			

¹Median (Q1 - Q3)

Table 110: Summary of PRULO Report 11 (Rotator Cuff) Cases - WORC Normalised and WORC Physical Question 3.

Characteristic	Preop $N = 5^1$	6m N = 6^1	12m N = 6^1
WORCNorm	37 (37 - 37)	90 (70 - 97)	87 (86 - 99)
WORCPhysicalQ3	40 (40 - 40)	15 (12 - 28)	28 (12 - 32)
WORCDelta	NA (NA - NA)	NA (NA - NA)	NA (NA - NA)

¹Median (Q1 - Q3)

17 Product Report 12 - Dynatape Freestrand Suture

17.1 Sample Selection

The sample of patients with the relevant product group were identified and data were retrieved for analysis by matching registry records to the relevant stock keeping units (SKUs) for the product group of interest. Usage statistics for the product group were added, and adverse events data were attached. Patient-reported data were retrieved and the dataset was manipulated to include relevant details for procedures of interest.

17.2 Overview

Usage of the Product within the patient group is summarised below.

There is 1 case involving the product of interest. There is insufficient sample size to provide a report.

There are 0 cases involving the suture of interest and a Cuff Repair. There is insufficient sample size to provide a report.

18 Product Report 13 - Orthocord Freestrand Suture

18.1 Sample Selection

The sample of patients with the relevant product group were identified and data were retrieved for analysis by matching registry records to the relevant stock keeping units (SKUs) for the product group of interest. Usage statistics for the product group were added, and adverse events data were attached. Patient-reported data were retrieved and the dataset was manipulated to include relevant details for procedures of interest.

18.2 Overview

Usage of the Product within the patient group is summarised below.

There are 2 cases involving the suture of interest. Surgeries were performed between 2021-Jun-10 to 2021-Jul-08. There is insufficient sample size to provide a report.

19 Product usage patterns

Product usage patterns were determined by merging multiple product datasets into a single table. This combined data was then modified to include additional information and restructured to have separate columns for different product groups. Following this, a list of product category names was established and proportions for various combinations were calculated. The results were reformatted for presentation, with count data incorporated and proportions displayed as percentages.

Table 111: Summary of product overlap for each report sample (row), the proportion of cases within that sample that also include products included in the remaining reports (columns)

	CaseCount	Healix Advance Peek with Dynacord	Healix Advance
Healix Advance Peek with Dynacord	206	100.0	_
Healix Advance Knotless Peek	206	92.2	
Healix Advance Knotless BR	63	3.2	
Healix Advance BR with Dynacord	84	1.2	
Milagro Advance BR	44	2.3	
Gryphon ProKnot BR	66	1.5	
Gryphon BR with Orthocord	39	0.0	
Gryphon BR with Dynacord	2	0.0	
Gryphon PEEK with Dynacord	9	0.0	
Latarjet Experience	13	0.0	
Dynacord Freestrand Suture	10	60.0	
Dynatape Freestrand Suture	1	0.0	
Orthocord Freestrand Suture	2	100.0	

19.1 Proportion with multiple products

The proportion of cases that contained hardware from different product codes was summarised.

A cross-tabulation of usage for all products was generated and written to an external file for further review.

A summary table was generated to illustrate the proportion of cases where multiple product codes were utilised.

Gummesson, Christina, Michael M Ward, and Isam Atroshi. 2006. "The Shortened Disabilities of the Arm, Shoulder and Hand Questionnaire (Quick DASH): Validity and Reliability Based on Responses Within the Full-Length DASH." BMC Musculoskeletal Disorders 7 (1). https://doi.org/10.1186/1471-2474-7-44.

Kirkley, Alexandra, Christine Alvarez, and Sharon Griffin. 2003. "The Development and Evaluation of a Disease-Specific Quality-of-Life Questionnaire for Disorders of the Rotator Cuff: The Western Ontario Rotator Cuff Index." Clinical Journal of Sport Medicine 13 (2): 84–92. https://doi.org/10.1097/00042752-200303000-00004.

Kirkley, Alexandra, Sharon Griffin, Heidi McLintock, and Linda Ng. 1998. "The Development and Evaluation of a Disease-Specific Quality of Life Measurement Tool for Shoulder Instability." The American Journal of Sports Medicine 26 (6): 764–72. https://doi.org/10.1177/03635465980260060501.

Scholes, Corey, Kevin Eng, Meredith Harrison-Brown, Milad Ebrahimi, Graeme Brown, Stephen Gill, and Richard Page. 2023. "Patient Registry of Upper Limb Outcomes (PRULO): A Protocol for an Orthopaedic Clinical Quality Registry to Monitor Treatment Outcomes." Journal of Surgical Protocols and Research Methodologies 2023 (4). https://doi.org/10.1093/jsprm/snad014.

Table 112: Summary of cross-product usage in the PRULO dataset

	Report	Total	Multiple	Proportion 1
$\overline{1}$	Report1	206	192	93.2
2	Report2	206	197	95.6
3	Report3	63	62	98.4
4	Report4	84	73	86.9
5	Report5	44	34	77.3
6	Report6	66	49	74.2
7	Report7	39	38	97.4
8	Report8	2	2	100.0
9	Report9	9	1	11.1
10	Report10	13	4	30.8
11	Report11	10	8	80.0
12	Report12	1	0	0.0
13	Report13	2	2	100.0

 $[\]overline{^{1}\text{Proportion}}$ as a % of the Total