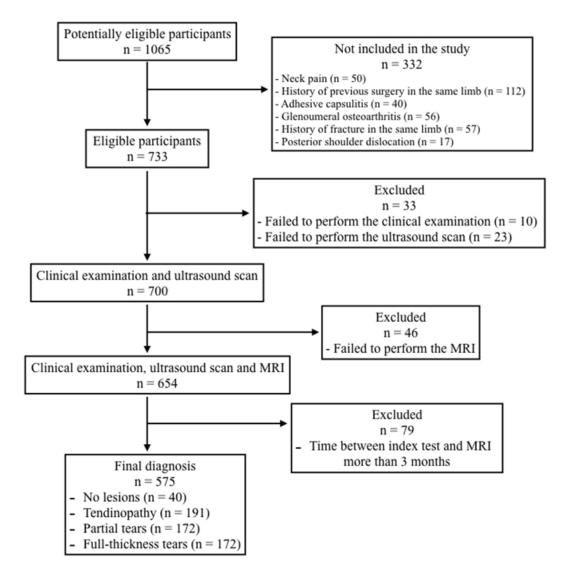
### **Participant flow**



Variable All participants (n = 733)	Statistic		
Age (years)	Mean = 50.5	SD = 12.7	
Symptom duration (months)	Mean = 34.3	SD = 48.4	
Gender	Male	52.2% (n = 383)	
Gender	Female	47.8% (n = 350)	
Side involved	Right	62.7% (n = 460)	
Side involved	Left	37.3% (n = 273)	
Dominant arm	Dominant	63.7% (n = 467)	
Dominant arm	Non dominant	36.3% (n = 266)	
Bilateral pain	Yes	36.9% (n = 256)	
	No	63.1% (n = 477)	
History of provious trauma	Yes	21.3% (n = 156)	
History of previous trauma	No	78.7% (n = 577)	

## **Baseline characteristics**

#### **Outcome measures**

Clinical tests	SE [95% CI]	SP [95% CI]	AC [95% CI]	PPV	NPV	LR +	LR –
Painful arc test	78.1% [73.5% to 82.2%]	<b>38.1%</b> [32.1% to 44.5%]	62% [58% to 66%]	65.2%	54%	1.26	0.57
Jobe's test <sup>1</sup>	81.4% [76.9% to 85.1%]	<b>37.7%</b> [31.7% to 44%]	63.8% [67.7% to 59.9%]	66%	57.6%	1.30	0.49
Full can testt <sup>1</sup>	75% [70.2% to 79.3%]	45% [38.7% to 51.5%]	63% [59% to 66.9%]	67%	54.7%	1.36	0.55
Resisted lateral test <sup>1</sup>	68.6% [63.5% to 73.3%]	57.6% [51.1% to 63.8%]	64.2% [60.2% to 68.1%]	70.6%	55.2%	1.61	0.54
Patte's test <sup>1</sup>	43.6% [38.5% to 48.9%]	74.9% [68.9% to 80%]	56.2% [52.1% to 60.2%]	72.1%	47.1%	1.74	0.75
Cross body adduction test	51.9% [46.6% to 57.1%]	44.6% [38.3% to 51%]	48.9% [44.9% to 53%]	58.2%	38.4%	0.93	1.07
Drop arm test	16% [12.5% to 20.3%]	97.8% [95% to 99%]	48.9% [44.9% to 53%]	91.7%	44%	7.41	0.86
Neer's sign	63.3% [58% to 68.2%]	57.6% [51.1% to 63.8%]	60.1% [57% to 64.9%]	68.9%	51.3%	1.49	0.64
Speed's test	47.8% [42.6% to 53.1%]	70.6% [64.4% to 76.1%]	57% [52.9% to 61%]	70.7%	47.7%	1.62	0.74
Hawkins' test	64.7% [59.5% to 69.6%]	55.4% [48.9% to 61.7%]	60.1% [57% to 64.9%]	68.3%	51.4%	1.45	0.64
Yocum's test	72% [67% to 76.5%]	44.1% [37.9% to 50.6%]	60.8% [56.8% to 64.8%]	65.7%	51.5%	1.29	0.63
Champagne toast test	54.1% [46.6% to 61.4%]	68% [58.3% to 76.3%]	<b>59.3%</b> [53.4% to 65.1%]	74.2%	46.6%	1.69	0.67

# Diagnostic values of all clinical tests in the supraspinatus tears (partial or full-thickness)

<sup>1</sup>: pain or weakness; SE: sensitivity; SP: specificity; AC: accuracy; PPV: positive predictive value; NPV: negative predictive value; LR +: positive likelihood ratio; LR -: negative likelihood ratio; CI: confidence interval.

### **Outcome measures**

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Ultrasonography	SE [95% CI]	SP [95% CI]	AC [95% CI]	PPV	NPV	LR +	LR –
Tendonosis	<b>62.7%</b> [55% to 69.1%]	61.3% [43.8% to 76.3%]	62.5% [55.6% to 69.3%]	89.4%	24%	1.62	0.61
Tears	<b>45.2%</b> [39.5% to 51.2%]	<b>92.3%</b> [87.9% to 95.2%]	65.6% [61.3% to 69.8%]	88.6%	56.1%	5.88	0.59
Partial tears	<b>22.2%</b> [16.2% to 29.7%]	<b>92.7%</b> [88.4% to 95.6%	63.8% [58.8% to 68.8%	68.1%	63.1%	3.07	0.83
Partial tears bursal side	<b>30.3%</b> [20.5% to 42.2%]	<b>91.8%</b> [87.6% to 94.7%]	<b>78.2%</b> [73.5% to 82.9%]	51.3%	82.2%	3.70	0.76
Partial tears articular side	16% [6.4% to 34.6%]	<b>92.7%</b> [88.4% to 95.5%]	<b>84.5%</b> [79.8% to 89.1%]	21%	90.1%	2.21	0.90
Partial tears intratendinous	<b>15.1%</b> [7.8% to 27%]	<b>92.7%</b> [88.4% to 95.5%]	<b>76.9%</b> [71.8% to 82%]	34.8%	81%	2.08	0.91
Full-thickness tears	<b>61.6%</b> [51.8% to 70.6%]	<b>97.7%</b> [95.4% to 98.9%]	<b>89%</b> [86% a 92.1%]	89.7%	88.9%	27.37	0.39

## Diagnostic values of the ultrasonography in the supraspinatus lesions

SE: sensitivity; SP: specificity; AC: accuracy; PPV: positive predictive value; NPV: negative predictive value; LR +: positive likelihood ratio; LR -: negative likelihood ratio; CI: confidence interval.

## **Adverse events**

Ten participants failed to perform the clinical examination and 13 failed to perform the magnetic resonance imaging. All of these participants were followed up and submitted to the individualized treatment.