

*Tumores testiculares.  
Prótesis testiculares. Impacto*

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# *Epidemiología*

## *Tumores testiculares*



1% Tumores en hombres

5% Tumores urológicos

1-2% Bilaterales al diagnóstico

3-10 casos/100.000 hab año

Incidencia creciente

# *Factores de riesgo*

*Tumores testiculares*



Disgenesia  
testicular

Criptorquidia

Hipospadia

Tumor  
contralateral  
previo

Enfermedad en  
familiares de  
1<sup>o</sup> grado

*Screening?*



- ▶ Autoexploración física
  - ▶ Factores de riesgo

# *Clasificación*

## *Tumores testiculares*



▶ **Tumores de células germinales:**

▶ Neoplasia células germinales in situ (GCNIS)

▶ Tumores células germinales derivados GCNIS:

▶ Seminoma

▶ Teratoma

▶ Carcinoma embrionario

▶ Tumor del saco vitelino

▶ Tumores células germinales no derivados GCNIS:

▶ Espermatocítico

▶ Saco vitelino pre púber

▶ **Tumores estromales:**

▶ Leydig

▶ Sertoli

▶ Gonadoblastoma

*Diagnóstico*



- ▶ Hallazgo casual
- ▶ Masa testicular palpable
- ▶ Clínica:
  - ▶ Dolor 20%
  - ▶ Ginecomastia 7%
  - ▶ Dolor lumbar 11%

*Diagnóstico*

*Radiológico*



Confirmación

Intra vs  
extratesticular

Ecografía escrotal

Teste contralateral

Gold standard  
S 100%

Confirmación

Intra vs  
extratesticular

Ecografía escrotal

Teste contralateral

Gold standard  
S 100%

# *Diagnóstico*

*Marcadores tumorales*



AFP 	bHCG 	LDH 
Germinales no seminomatosos	Germinales no seminomatosos	Germinales no seminomatosos + seminoma
50-70% al diagnóstico	40-60% al diagnóstico	80% tardío
	30% seminoma en el curso de la enfermedad	

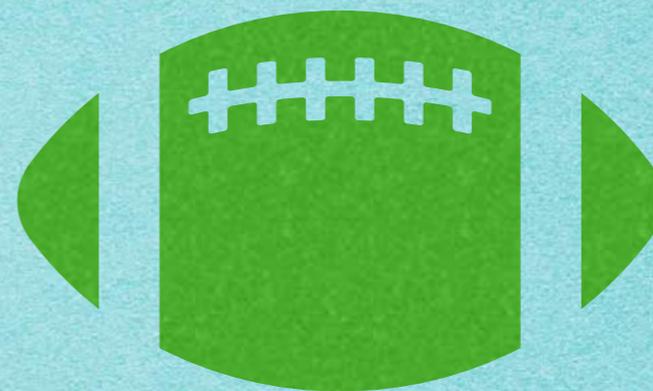
# *Tratamiento*

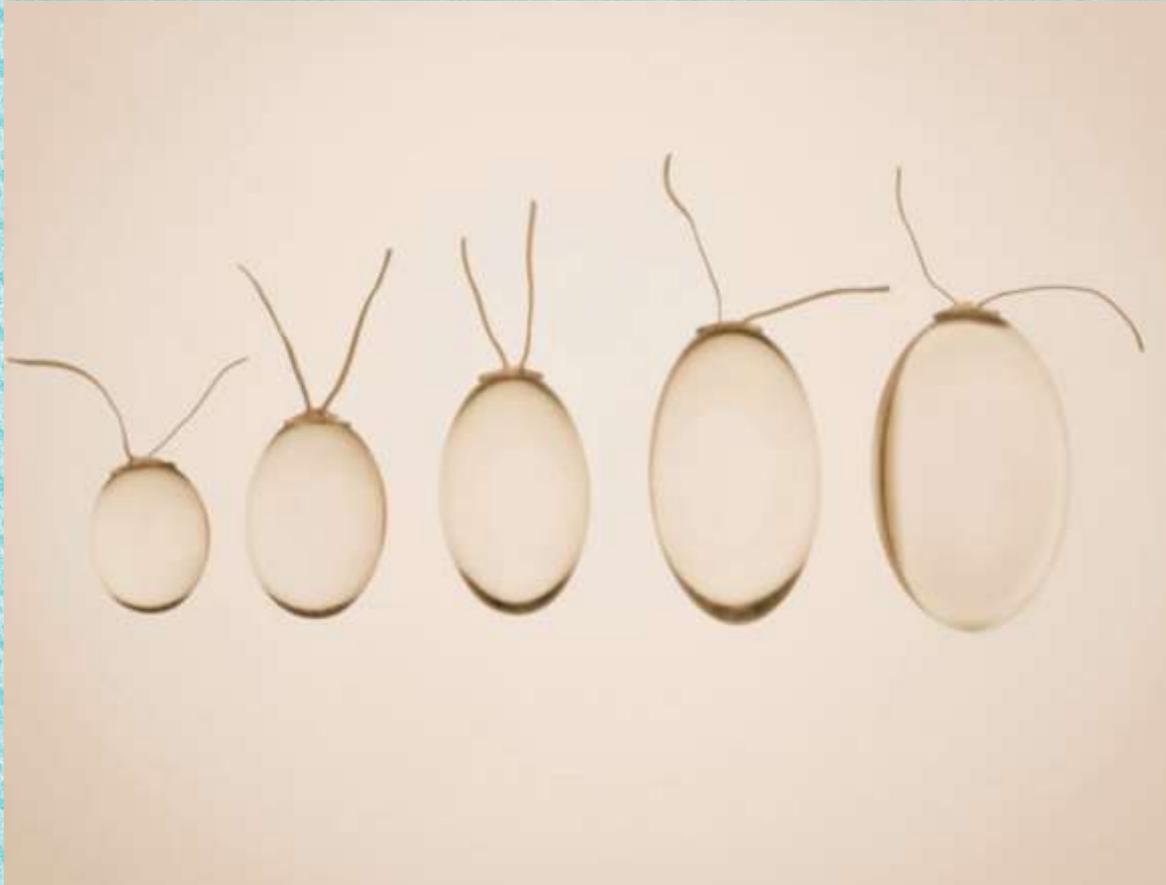
*Orquiectomía radical*



*Prótesis*

*Testiculares*





- ▶ Intraescrotal.
- ▶ Cápsula de elastómero. Silicona fina.
- ▶ Rellena de gel altamente resistente.
- ▶ Similar forma/densidad/consistencia

*“Even though only limited data are available, it has been shown that during orchiectomy, a testicular prosthesis can be inserted without increased infectious complications or rejection rates”*

# Is it safe to insert a testicular prosthesis at the time of radical orchidectomy for testis cancer: an audit of 904 men undergoing radical orchidectomy

Richard Robinson\*†, Campbell D. Tait\*†, Noel W. Clarke\*† and Vijay A.C. Ramani\*

Departments of Urology, \*The Christie NHS Foundation Trust, University Hospital of South Manchester and †Salford Royal NHS Foundation Trust, Manchester, UK

▶ N= 904

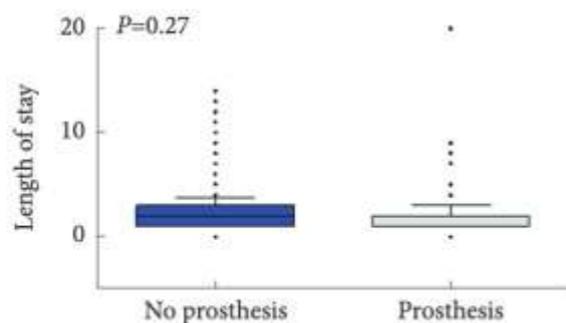
▶ Se ofrece opción prótesis 46%

▶ Tratamiento con prótesis 55%

▶ No tratamiento con prótesis 45%



**Fig. 2** LOS. Comparison of those receiving a concurrent prosthesis during orchidectomy with those who did not. Box: median 25th and 75th centile, whiskers: 10th–90th percentile (Mann–Whitney *U*-test).



Estancia  
hospitalaria

Prótesis:  
1.98d

No  
prótesis:2.  
1d

Reingreso en  
primeros 30 días

Prótesis:  
2.6%

No  
prótesis:  
4.6%

*“Uso de prótesis en cirugía primaria no aumenta el riesgo de complicaciones”*

# **Testicular prosthesis: Patient satisfaction and sexual dysfunctions in testis cancer survivors**

Francesco Catanzariti <sup>1</sup>, Benedetta Polito <sup>2</sup>, Massimo Polito <sup>1</sup>

# **Testicular Prostheses for Testis Cancer Survivors: Patient Perspectives and Predictors of Long-Term Satisfaction**

Ofer Yossepowitch,\* Dina Aviv, Liat Wainchwaig and Jack Baniel

## **Testicular prostheses in patients with testicular cancer - acceptance rate and patient satisfaction**

Klaus-Peter Dieckmann<sup>1\*\*</sup>, Petra Anheuser<sup>1†</sup>, Stefan Schmidt<sup>2</sup>, Benjamin Soyka-Hundt<sup>1</sup>, Uwe Pichlmeier<sup>3</sup>, Philipp Schriefer<sup>4</sup>, Cord Matthies<sup>2</sup>, Michael Hartmann<sup>4</sup> and Christian G Ruf<sup>2</sup>

## **Patient Decision-making and Predictors of Genital Satisfaction Associated With Testicular Prostheses After Radical Orchiectomy: A Questionnaire-based Study of Men With Germ Cell Tumors of the Testicle**

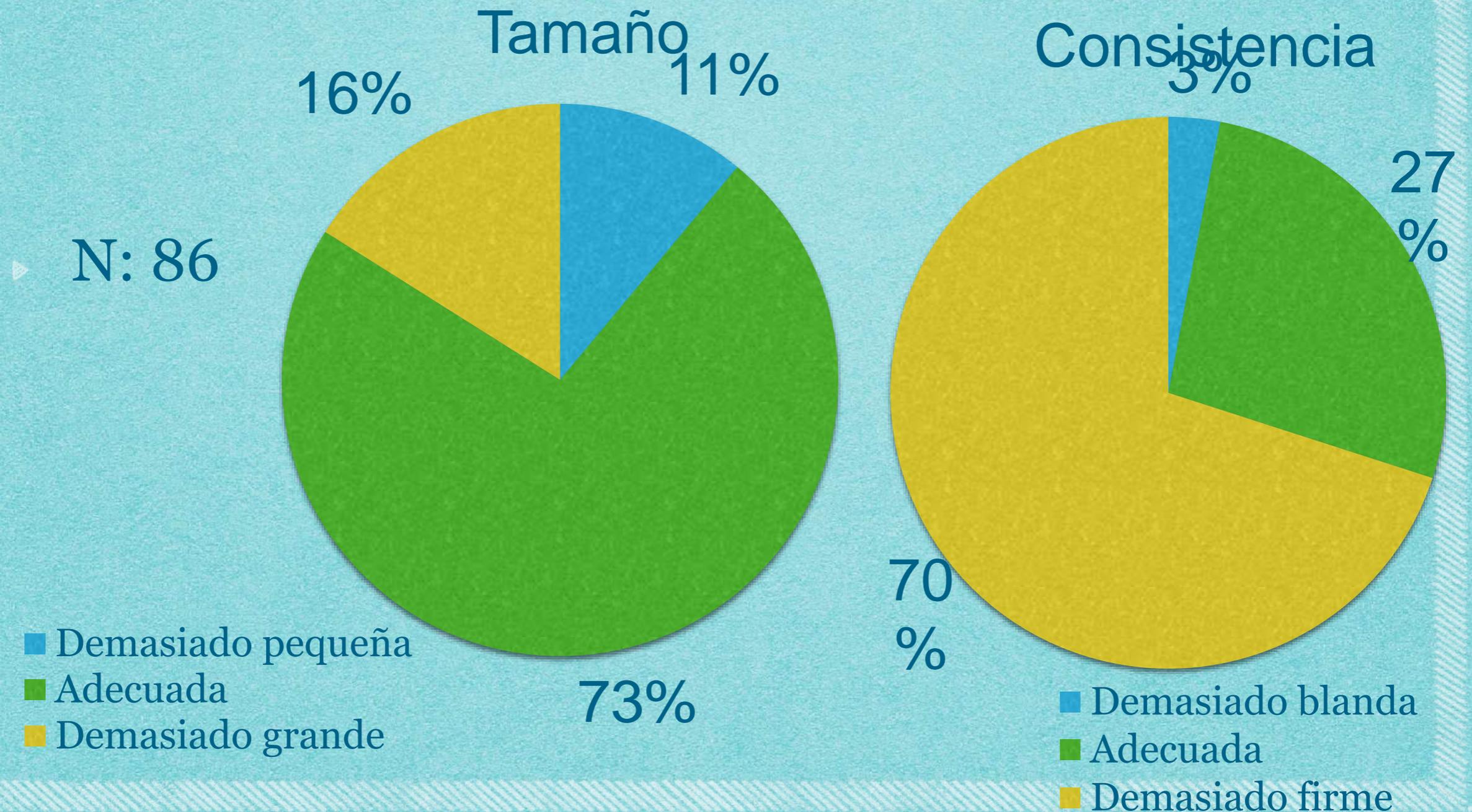
Paige E. Nichols, Kelly T. Harris, Aaron Brant, Madeleine G. Manka, Nora Haney, Michael H. Johnson, Amin Herati, Mohamed E. Allaf, and Phillip M. Pierorazio

# **Satisfaction With Testicular Prosthesis After Radical Orchiectomy**

Thomas G. Clifford, Madeleine L. Burg, Brian Hu, Jeffrey Loh-Doyle, Cory M. Hugen, Jie Cai, Hooman Djaladat, Kevin Wayne, and Siamak Daneshmand

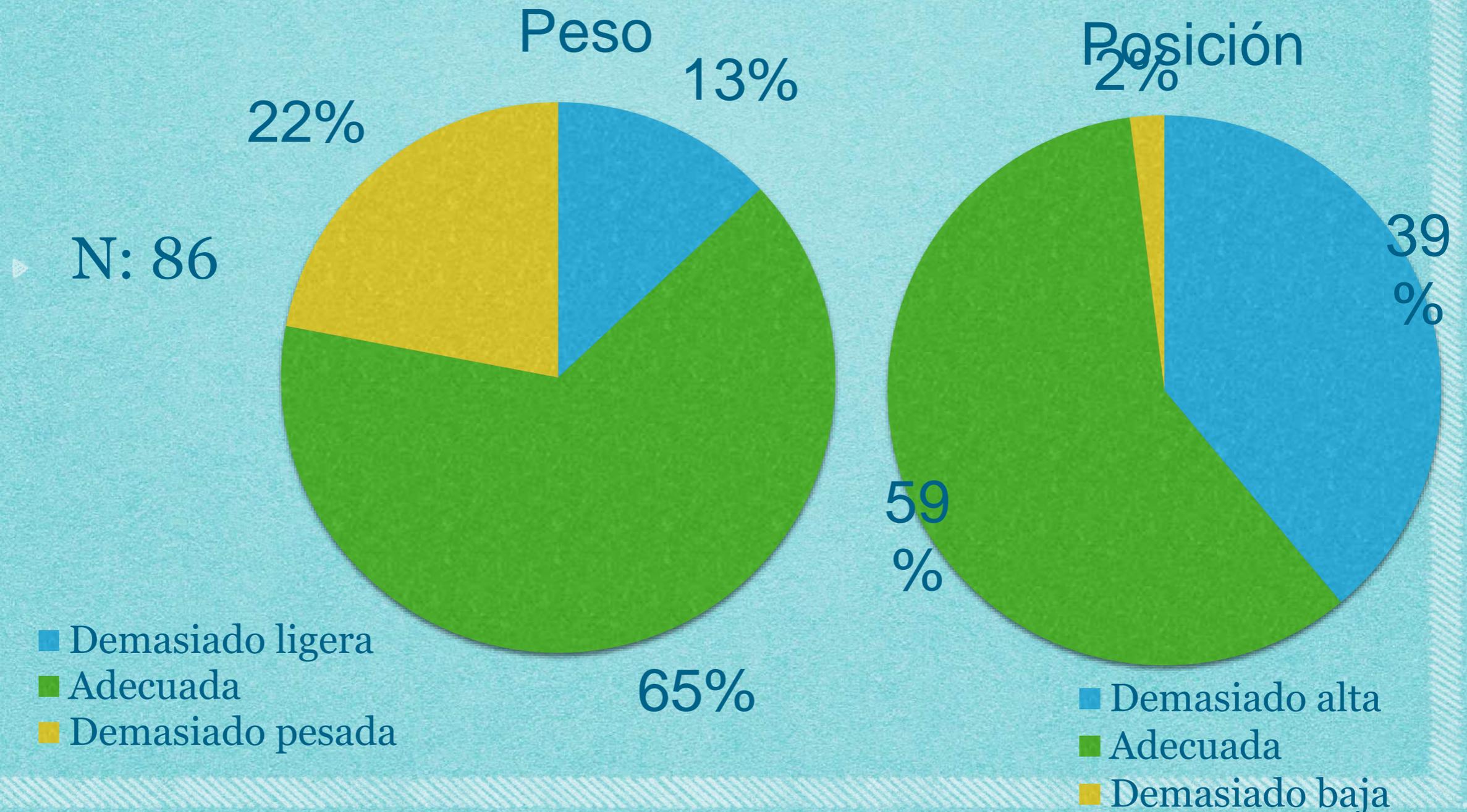
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# Testicular prosthesis: Patient satisfaction and sexual dysfunctions in testis cancer survivors

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**Table 3.**

*Complications of testicular prosthesis implantation.*

	No. (%)
Inflammation with scrotal edema	2 (2.98%)
Hematoma	1 (1.49%)

▶ N: 67 pacientes

**Table 5.**

*Dissatisfaction of patients about the prosthesis and defects of the prosthesis complained by the patients 6 months after surgery.*

	No. (%)
<b>Dissatisfaction of patients about the prosthesis</b>	15 (22.37)
<b>Defects of the prosthesis complained by the patients</b>	
Chronic pain	1 (1.49)
Abnormal size of the testicular prosthesis	
Larger than the normal testis	5 (7.46)
Smaller than the normal testis	1 (1.49)
Testicular prosthesis firmer than the normal testis	8 (11.94)
Sense of coldness of the prosthesis	2 (2.98)
Testicular prosthesis higher than the normal testis in the scrotal sac	4 (5.97)

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# Testicular prostheses in patients with testicular cancer - acceptance rate and patient satisfaction

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▶ N: 128

**Table 4 Significant associations between various items of satisfaction with prosthesis**

	Size of prosthesis			
	Too much	Just right	Too small	
<b>Weight of prosthesis</b>				p = 0.032*
Too heavy	18.8%	4.6%	7.9%	
Right	81.3%	95.4%	81.6%	
Too light	-	-	10.5%	
<b>Shape of prosthesis</b>				p = 0.002 <sup>#</sup>
Inconvenient	31.3%	8.3%	28.2%	
Just right	68.8%	91.7%	71.8%	
				<b>weight of prosthesis</b>
<b>Position within scrotum</b>				p = 0.023 <sup>§</sup>
Right	81.8%	69.6%	-	
Not right	18.2%	30.4%	100%	
				<b>shape of prosthesis</b>
<b>Consistency of prosthesis</b>				p = 0.017 <sup>#</sup>
Too firm	75%	48.6%		
Convenient	25%	51.4%		
				<b>consistency of prosthesis</b>
<b>Position of prosthesis</b>				p = 0.035*
Right	61.6%	76.9%		
Too high	38.4%	23.1%		

\*Exact Jonckhere Terpstra test.

<sup>#</sup>chi square test.

<sup>§</sup>Exact Cochran Armitage Trend Test.

**Table 3 Results of questionnaire regarding patients' satisfaction with testicular implant**

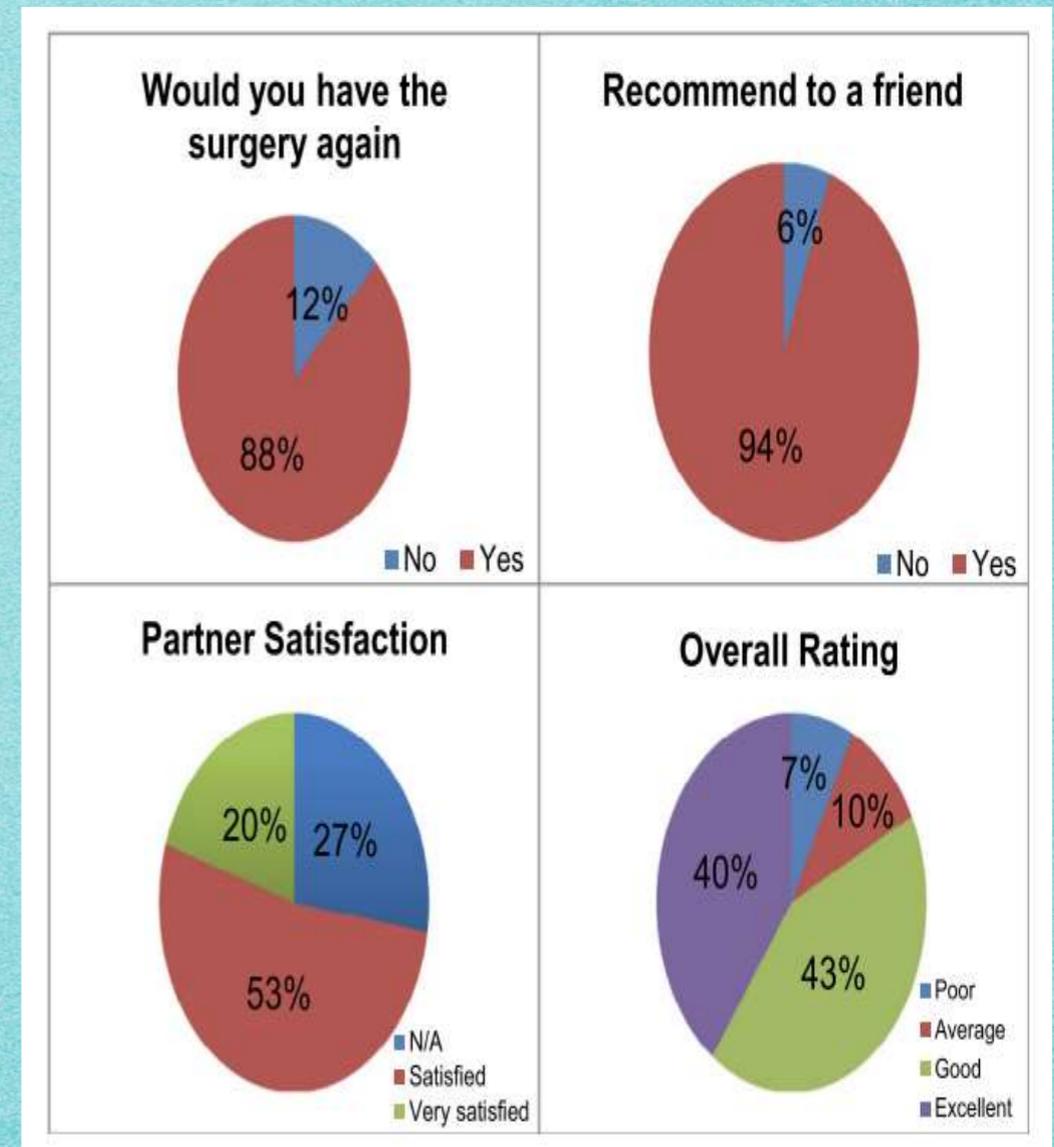
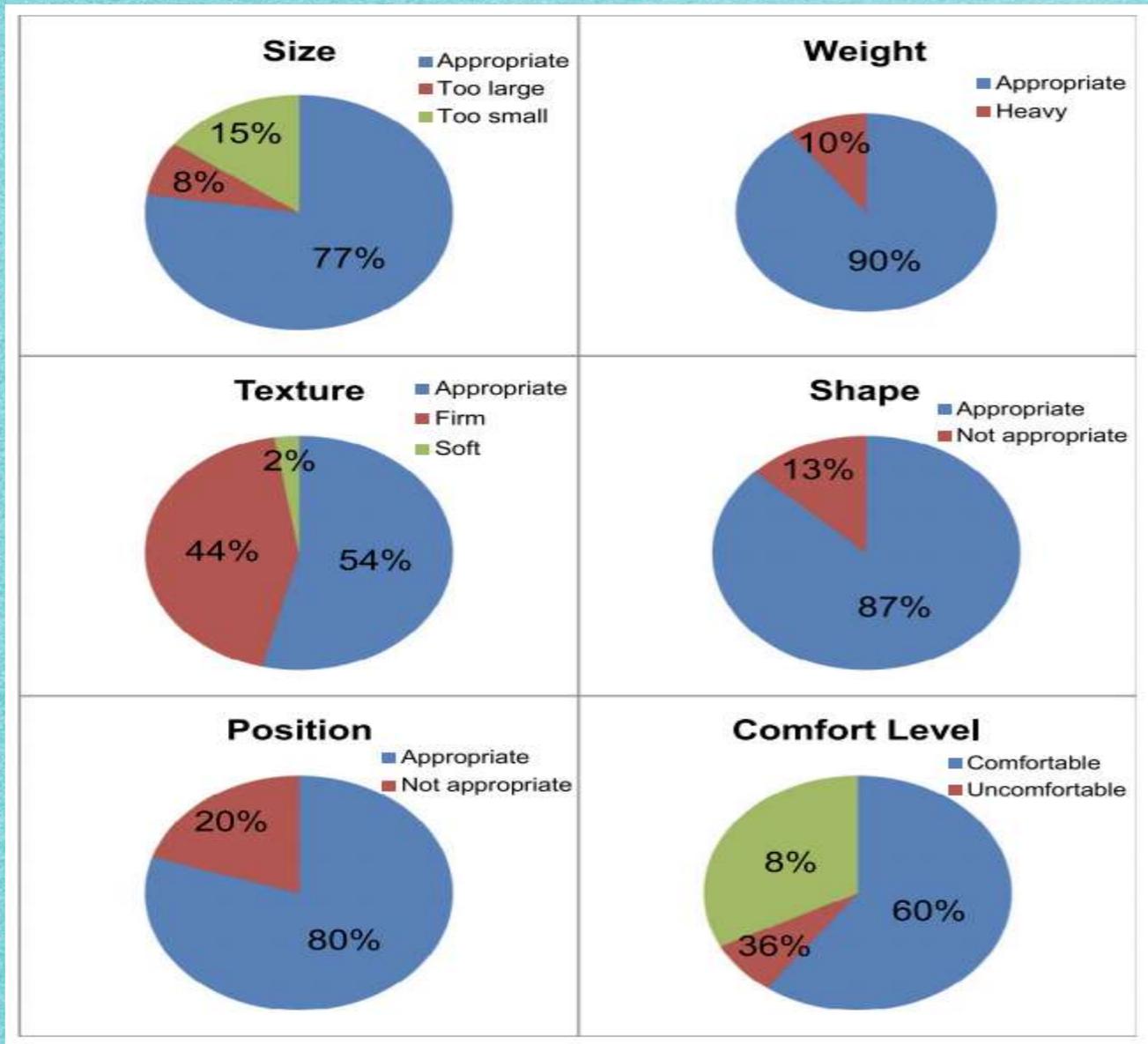
Question	Eligible (n)	Answer	(%)	95% CI
Married	167	yes	50.3	41.4%; 59.2%
Living with permanent partner	164	yes	77.4	69.5%; 84.0%
Time living with implant	168	<1 year- 2 years	14.9	9.3%; 22.3%
		> 2 years	10.7	5.8%; 17.4%
			74.4	65.7%; 81.8%
Additional surgery after implant insertion	170	yes	4.7	2.1%; 9.6%
Normal appearance with two testicles: important?	168	very important	53.6%	44.1%; 62.6%
		important	31.3	23.2%; 40.6%
Being offered a prosthesis, preoperatively	169	important	98.2	94.2%; 99.6%
Size of the implant	164	too large	9.8	5.0%; 16.3%
		too small	23.8	16.3%; 32.3%
Weight of the implant	166	too heavy	6.6	2.9%; 12.5%
		Just right	91	84.4%; 95.2%
Shape of implant	169	not right	15.4	9.7%; 22.5%
Consistence of implant	164	too firm	52.4	43.4%; 61.1%
Position of implant within scrotum	165	too high	30.3	22.0%; 39.6%
Any particular feeling with the implant	164	convenient	16.5	10.0%; 24.6%
		inconvenient	4.3	1.5%; 9.7%
		strange	9.1	4.6%; 16.0%
Problems with implant during physical exercise	164	no	92.1	85.8%; 96.1%
Concerns about future problems with the implant	164	no	89.0	82.7%; 93.6%
Counseling before implant placement	164	too short	31.1	22.7%; 40.5%
		Insufficient	8.5	4.2%; 14.9%
After all, would you have an implant again?	165	yes	86.1	79.1%; 91.4%
Over-all satisfied with implant	164	very well	31.1	22.2%; 41.0%
		satisfied	52.4	42.1%; 62.4%
		just so	12.2	6.5%; 20.0%
		no	4.3	7.4%; 1.2%

**Table 3 Results of questionnaire regarding patients' satisfaction with testicular implant**

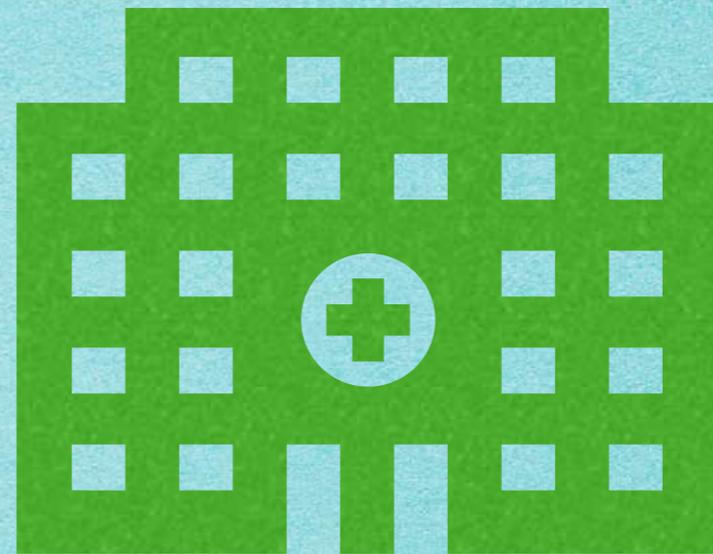
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		important	31.3	23.2%; 40.6%
<b>After all, would you have an implant again?</b>	<b>165</b>	<b>yes</b>	<b>86.1</b>	
<b>Over-all satisfied with implant</b>	<b>164</b>	<b>very well</b>	<b>31.1</b>	
		<b>satisfied</b>	<b>52.4</b>	
Shape of implant	169	not right	15.4	9.7%; 22.5%
Consistence of implant	164	too firm	52.4	43.4%; 61.1%
<b>Being offered a prosthesis, preoperatively</b>	<b>169</b>	<b>important</b>	<b>98.2</b>	
Problems with implant during physical exercise	164	inconvenient	4.3	1.5%; 9.7%
		strange	9.1	4.6%; 16.0%
Concerns about future problems with the implant	164	no	92.1	85.8%; 96.1%
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		just so	12.2	6.5%; 20.0%
		no	4.3	2.4%; 1.2%

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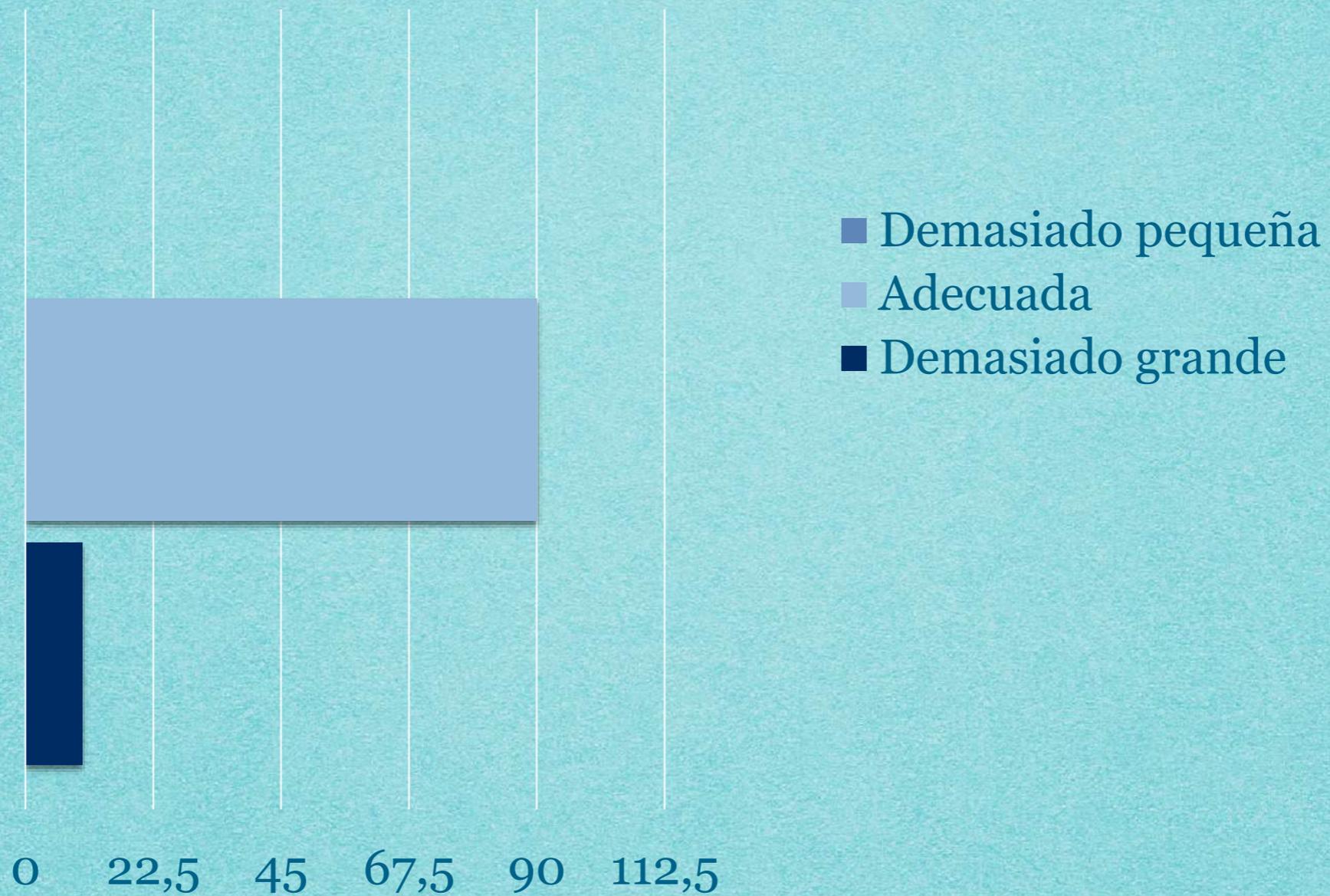


*Nuestra  
experiencia*

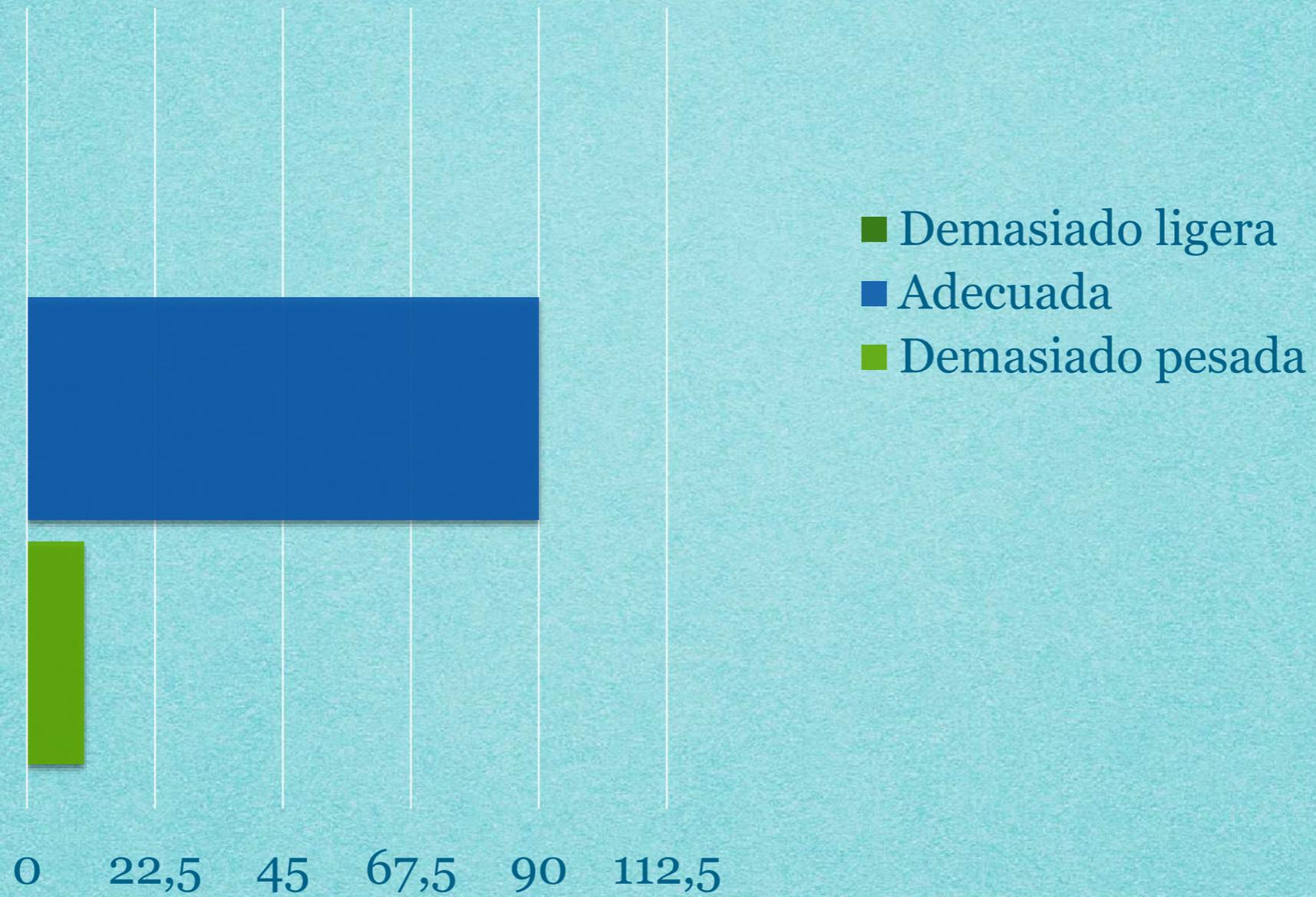


- ▶ T: 20 años
- ▶ Pacientes orquiectomía radical
  - ▶ N 83
  - ▶ Prótesis: 12

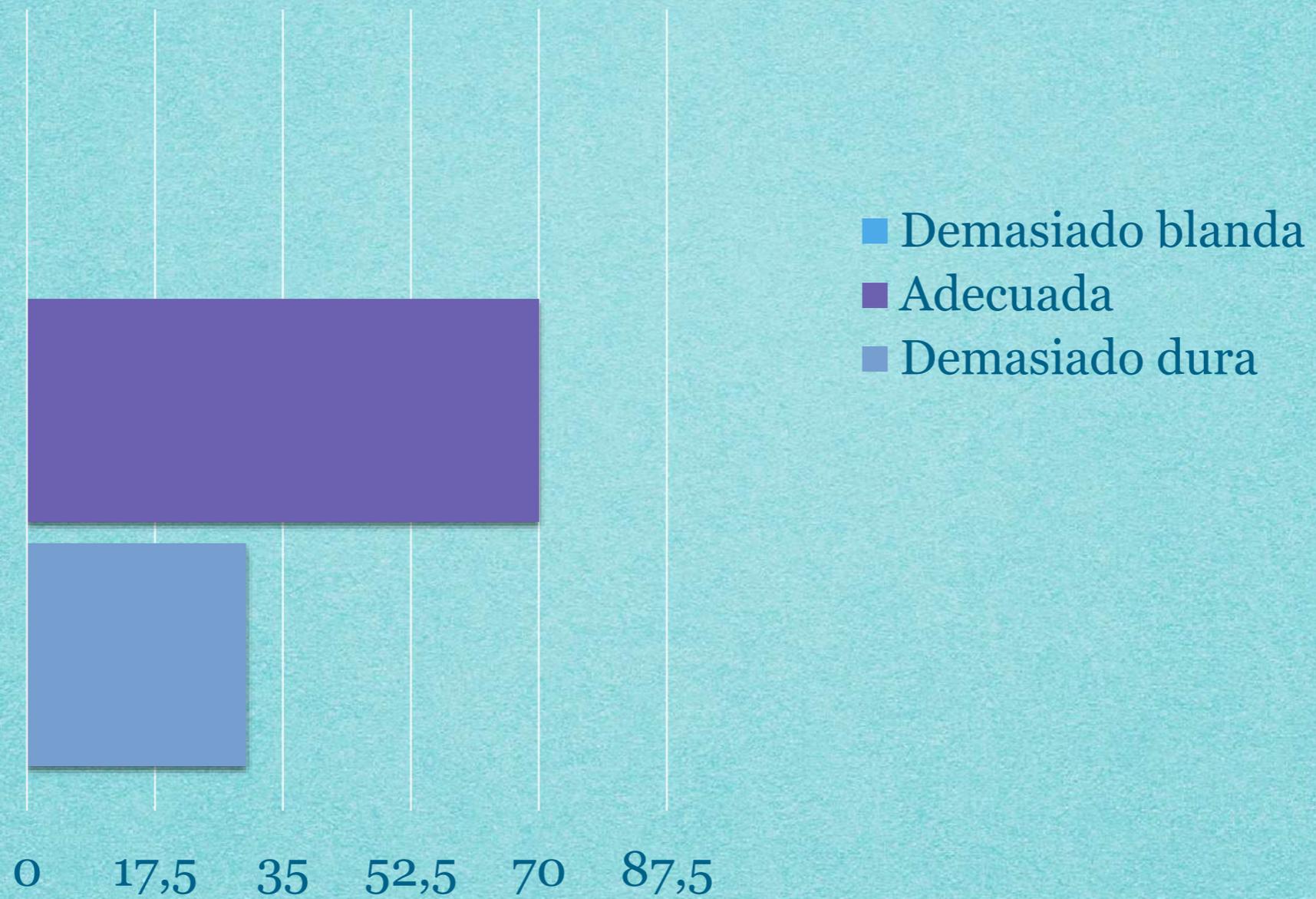
# Tamaño prótesis



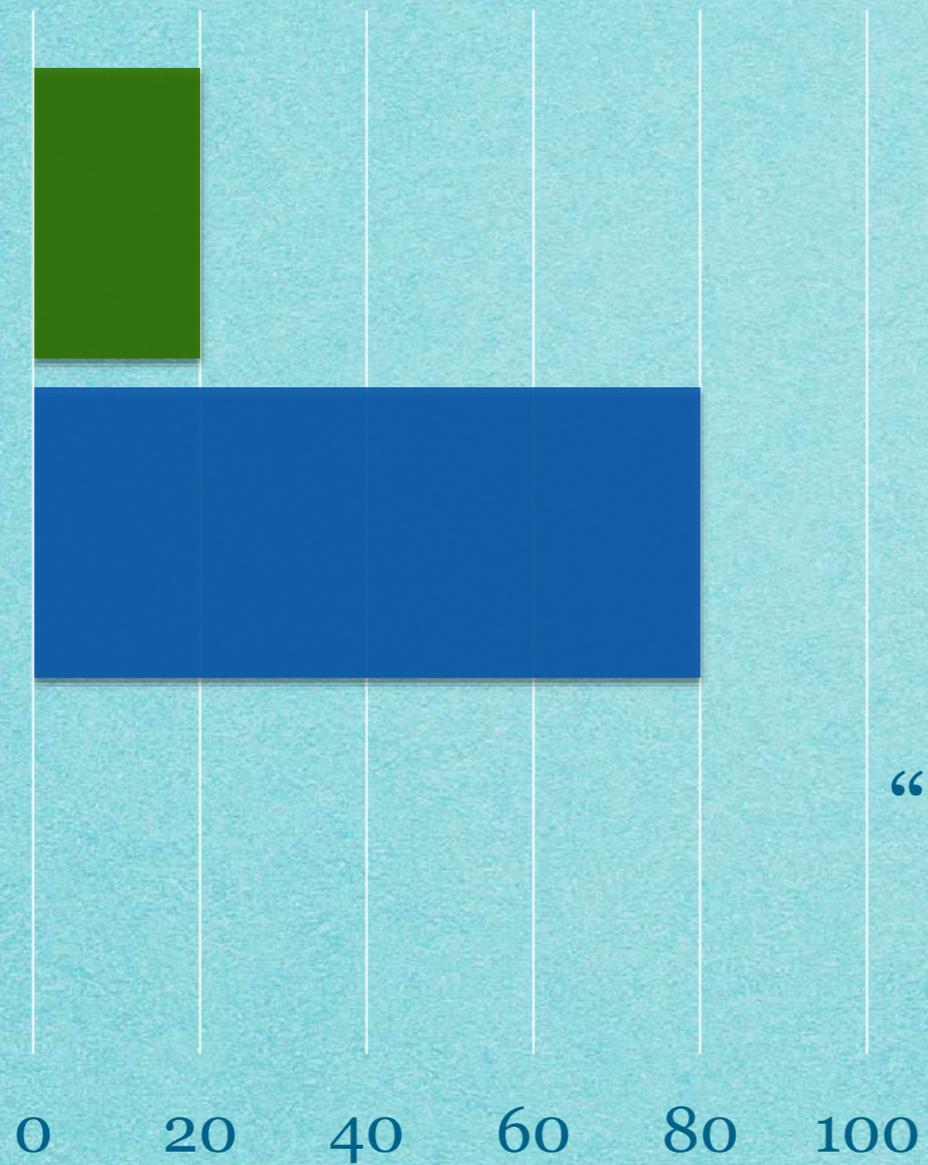
# Peso



# Consistencia



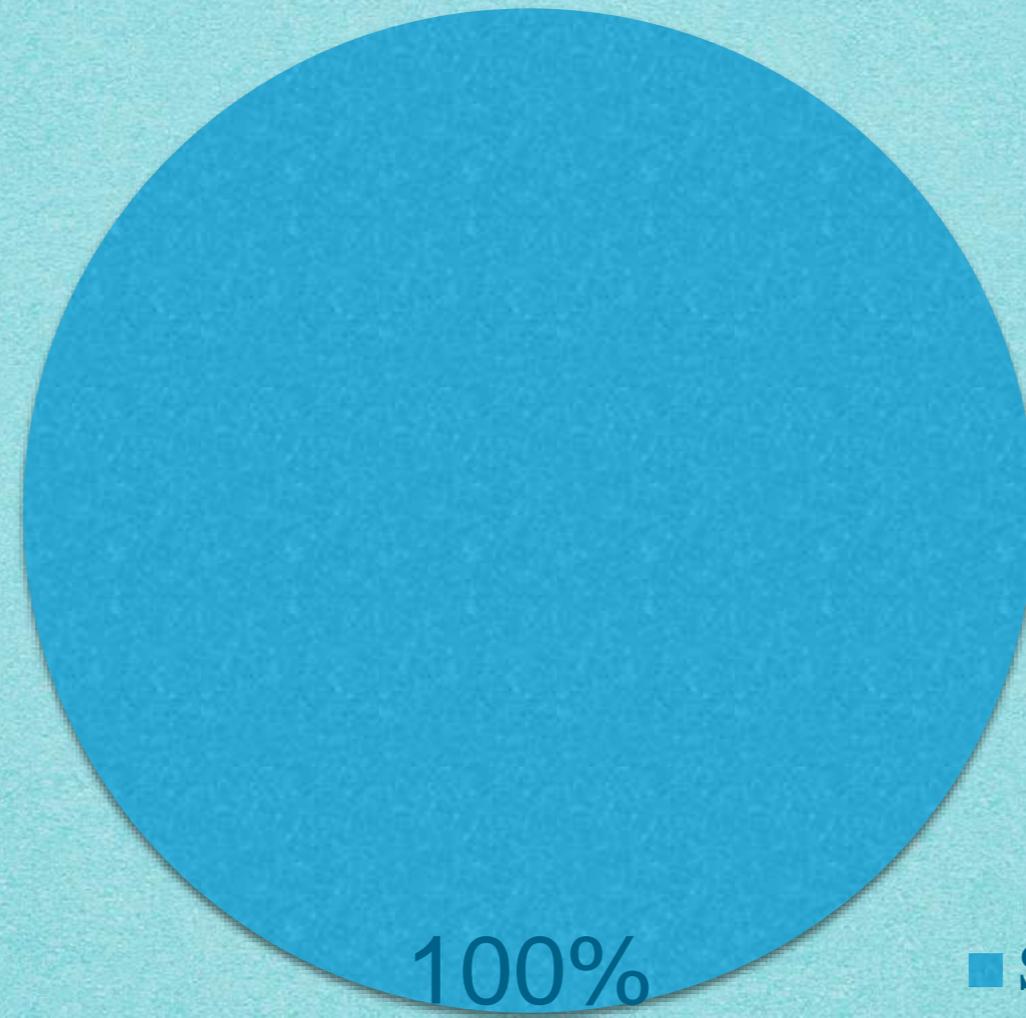
# Posición



- Demasiado alta
- Adecuada
- Demasiado baja

“Fija, ausencia de movilidad”

# Satisfacción decisión



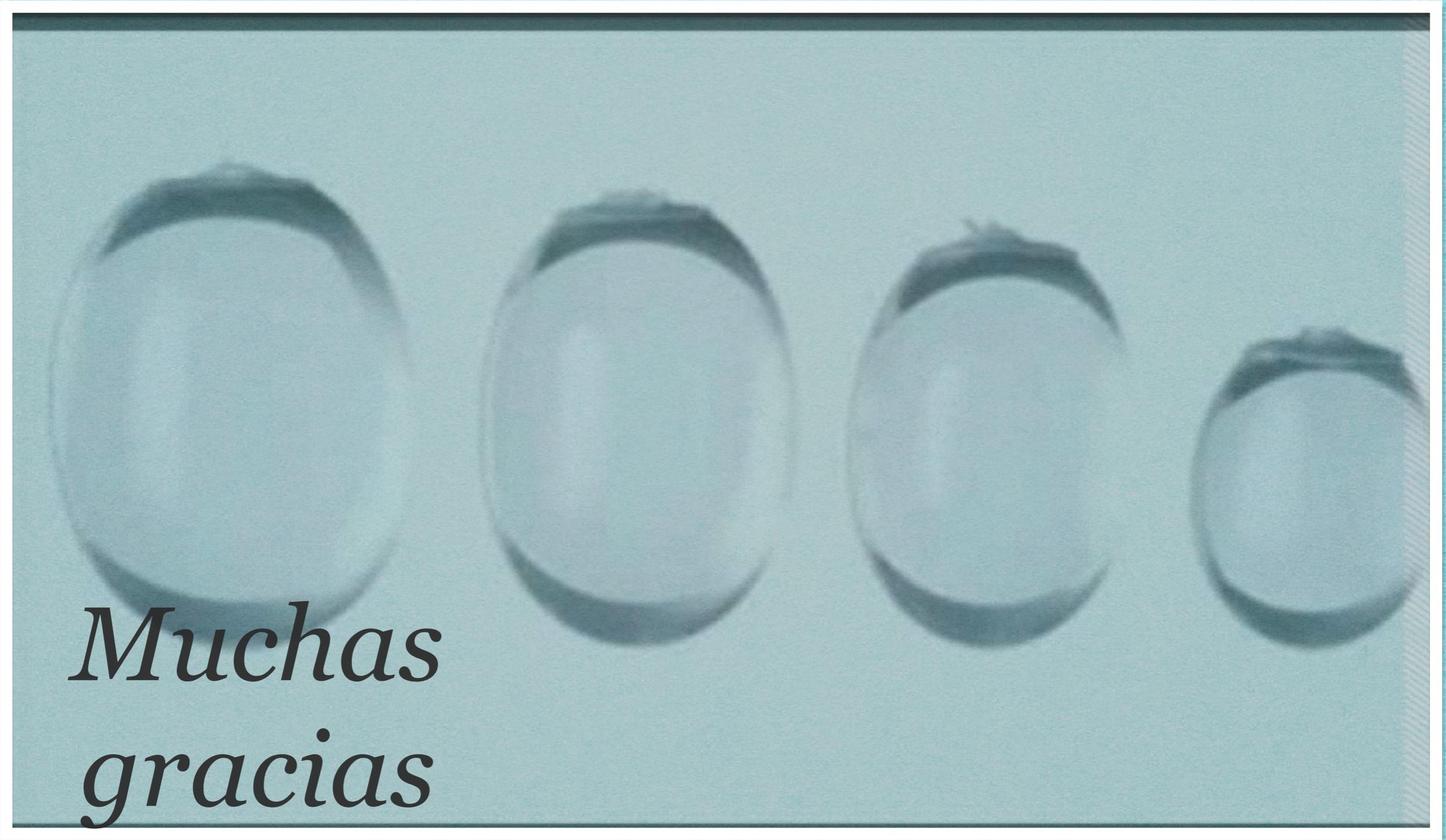
■ SÍ

■ NO

# *Complicaciones*



- ▶ Dehiscencia sutura
- ▶ Hematoma
- ▶ Infección



*Muchas  
gracias*