

Performance Comparison

Beauty Meso Needle 32G

Mesoram, Meso-Relle and UNIMASTER

unimaster[®]
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Purpose:

As investigated, customers sometimes feel rather hard and weak by verbal promotion to recommend a product to the end users if happenly the product is good but new for the market. This is definitely not wise since the consumers will have to pay more than should. In order to let the end users quickly recognize the quality location of the Unimaster meso needles, and to support and proof its performance by specific technical data, we make this parallel technical contrast on the same size 30G among the existing typical reputed players in the world market. This test and research are implemented in-house laboratory and the testing data is real, and for inner reference. And it indicates with the main features of the physical properties of the needles tested, which critically determines the performance of the needle during the use of the medical staff and patient feeling or treatment reaction after surgery.

Test Object:

Mesoram/Ri.MOS.SRL Italy

Meso needle 32Gx4mm Sterile packed 50pcs

Meso-Relle/BIOTEKNE SRL Italy

Meso needle 32Gx4mm Sterile packed 50pcs

Unimaster Wenzhou China.

Meso needle 32Gx4mm Sterile packed 50pcs



Test Protocol:

This test is done on basis of EN ISO 7864:2016 and GB15811:2016

Sterile hypodermic needles for single use — Requirements and test methods

Critical Physical Performance Test Report

Sample	Brand		Size	
①	MESORAM ITALY		32Gx4mm,50pcs.	
Testing items	Result			
Sharpness No	Initial puncture (Unit: N)	After 10 times multi-puncture (Unit: N)	After 30 times multi-puncture (Unit: N)	After 50 times multi-puncture (Unit: N)
1	0.380	0.397	0.401	0.418
2	0.341	0.375	0.402	0.426
3	0.360	0.378	0.414	0.420
4	0.366	0.370	0.427	0.452
5	0.384	0.351	0.386	0.391
6	0.364	0.376	0.406	0.435
7	0.372	0.381	0.398	0.421
8	0.326	0.357	0.404	0.457
9	0.391	0.357	0.386	0.417
10	0.417	0.393	0.423	0.452
Average force	0.370	0.374	0.405	0.429

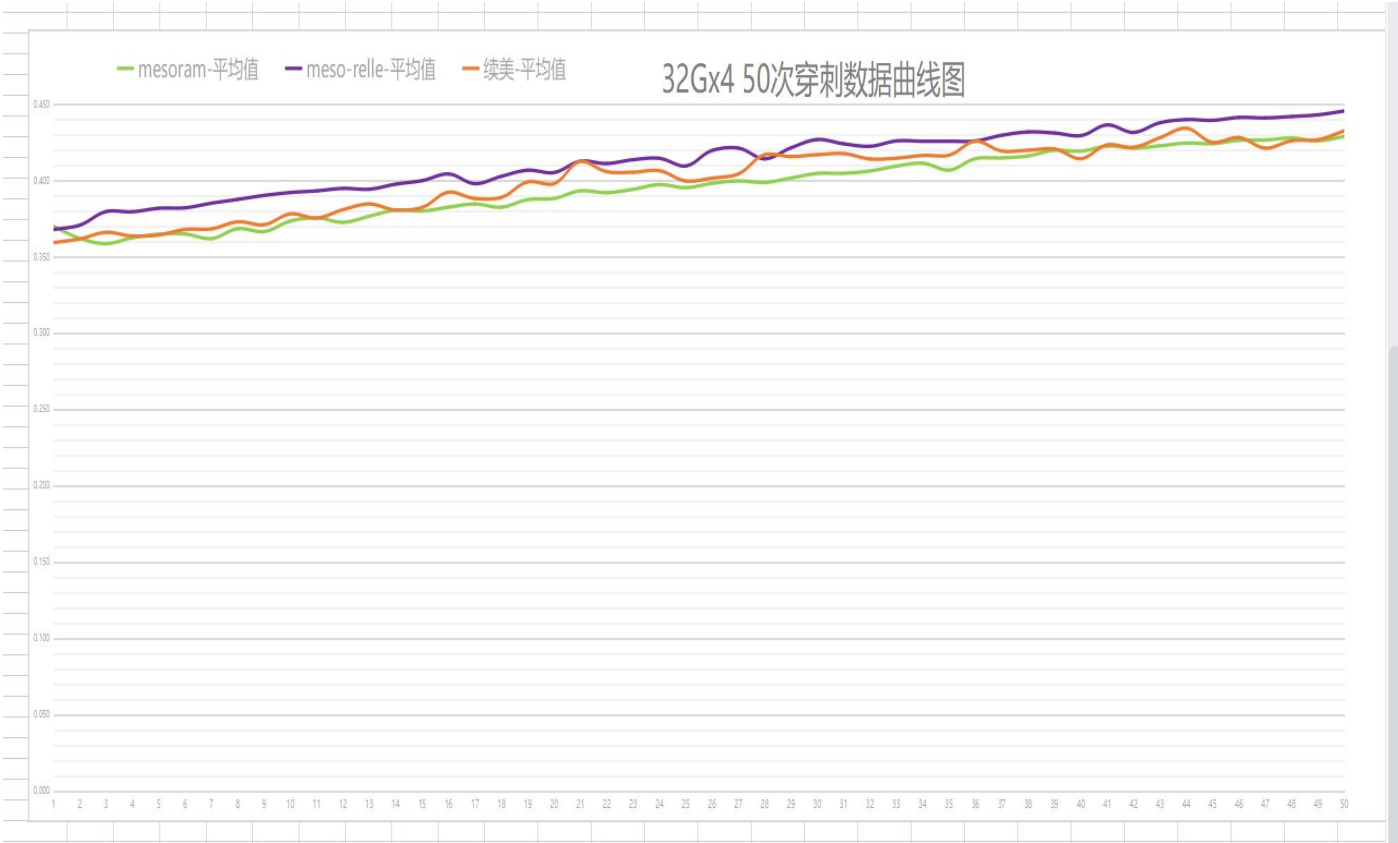
Sample	Brand		Size	
②	MESO-RELLE ITALY		32Gx4mm,50pcs	
Testing items	Result			
Sharpness No	Initial puncture (Unit: N)	After 10 times multi-puncture (Unit: N)	After 30 times multi-puncture (Unit: N)	After 50 times multi-puncture (Unit: N)
1	0.396	0.394	0.414	0.435
2	0.385	0.402	0.426	0.441
3	0.345	0.378	0.401	0.418
4	0.395	0.398	0.435	0.465
5	0.359	0.404	0.439	0.462
6	0.385	0.419	0.485	0.508
7	0.364	0.396	0.442	0.443
8	0.332	0.362	0.411	0.431
9	0.379	0.406	0.434	0.442
10	0.339	0.363	0.382	0.411
Average force	0.368	0.392	0.427	0.446

Sample	Brand	Size	Remark	
③	UNIMASTER CHINA	32Gx4 mm,50pcs		
Testing items	Result			
Sharpness No	Initial puncture (Unit: N)	After 10 times multi-puncture (Unit: N)	After 30 times multi-puncture (Unit: N)	After 50 times multi-puncture (Unit: N)
1	0.393	0.432	0.471	0.498
2	0.331	0.365	0.400	0.426
3	0.346	0.370	0.437	0.468
4	0.347	0.371	0.424	0.419
5	0.370	0.365	0.388	0.406
6	0.403	0.423	0.472	0.467
7	0.328	0.306	0.382	0.381
8	0.334	0.389	0.393	0.409
9	0.377	0.377	0.384	0.403
10	0.365	0.384	0.419	0.449
Average force	0.359	0.378	0.417	0.433

OVERALL ANALYSIS

32Gx4mm, Puncture force Performance Comparison Chart

Mesoram
Meso-Relle
Unimaster



Overall Conclusion:

The above comparison table we made test in house under the same laboratory condition and environment, indicates the critical characters of the multi puncture sharpness among the batches of Mesoram Italy, Meso-Relle Italy, and Chinese brand Unimaster.

It proves from the data and chart that the needle size 32G of the three brands tested have equivalent behavior in sharpness and stability in the multi puncture. Theoretically speaking, the users will have no feeling of the difference during the application in the surgery for this size, no matter in initial breaking the skin or till end of injection.