

House of Quality (HoQ)

Customer Requirement	Weight	Engineering Requirement	Mean Flow Rate in left iliac (ml/s)	Mean Flow Rate in right iliac (ml/s)	Aortic Pressure sys/dias (mmHg)	Surface Roughness (micrometers)	Hardness (shore OO)	Shear Modulus (kPa)	Wall thickness(mm)	Aneurysm Diameter (mm)	Aneurysm Length (mm)	Creep (mm/year)	See-Through Model (binary)	Fluid Temperature (C)	Weight of entire system (kg)	Total Cost (\$)	Diameter of distal Aorta (mm)	Diameter of Left iliac (mm)	Diameter of right iliac (mm)	Radius of Curvature at Right Junction (mm)	Radius of Curvature at Left Junction (mm)	Length from iliac to catheter insertion point	angle of Right common iliac in coronal plane (degrees)	Angle of Left common iliac in coronal plane (degrees)	Take off angle of Iliacs in saggital plane (degrees)
1. Safe per ANSI/OSHA	10			1	3			1	1					1	1										
2. Easy to Move	3								1						9	1									
3. Mimic Anatomical Flow Conditions	8			9	9				1					1		3	9	9	9	3	3	3	3	3	3
4. Match Aneurysm Mechanical Properties	7						9	9		9	9	9		1		3	3	3	3	3	3	3	3	3	3
5. Match Aneurysm Geometry	9								9		9														
6. Transparent Material	9												9			1									
7. Replicable Manufacturing Process	9															3									
8. Displays Pressure	5				9									1		3									
9. Displays Flow Rate	5			9										1		3									
10. Stable Base	4			3											3	1									
11. Displays Aneurysm Volume Change	3															3									
Absolute Technical Importance (ATI)																									
Relative Technical Importance (RTI)																									
Target ER values			94	111	141/68		41	175	2	35	26.7	2.9	Y/N	37	22.68	2800	25.5	16.5	16.5	34.57	50.5		29	14	15
Tolerances of Ers											4.1		n/a			200	6.5	8.5	8.5						
Testing Procedure (TP#)																									

Approval (print name, sign, and date):

- Team member 1: _____
- Team member 2: _____
- Team member 3: _____
- Team member 4: _____
- Team member 5: _____
- Team member 6: _____

Client Approval: