

Ref.	Hazard.	Related part /	Sev	Like	Risk.	Solution.	Document referenced.	Sev	Like	Risk.
		Component posing	of	of				of	0f	
		risk.	Haz.	Haz.				Haz.	Haz.	
<b>D.2</b>	Energy hazards and con	tributory factors				,				
D.2.1	Electricity	None	1	1	1	Non required	_IEC601/1	1	1	1
	Line voltage	None	1	1	1	Non required	_ISO9000:2000	1	1	1
	Leakage enclosure	None	1	1	1	Non required	ISO14971:2009	1	1	1
	Leakage earth	None	1	1	1	Non required	ISO13471:2009	1	1	1
	Patient Leakage	None	1	1	1	Non required	Y1 Design History	1	1	1
	Electric Fields	None	1	1	1	Non required		1	1	1
D.2.2	Heat	None	1	1	1	Non required	Y Design Files	1	1	1
	High Temperature	None	1	1	1	Non required	IEC601/1 PtII	1	1	1
	Low Temperature	None	1	1	1	Non required		1	1	1
D.2.3	Mechanical force	Doors	1	2	2	Recommendation not to	F5 User instructions	1	2	2
						force door. If damaged				
						user to assess level of				
						damage before useNon				
						required				
	Gravity : Falling	None	1	1	1	Medical clamp	Y1 Design History	1	1	1
	Suspended masses	None	1	1	1	Non required		1	1	1
	Stored energy	None	1	1	1	Non required		1	1	1
	Torsion, Shear & Tensile	None	1	1	1	Non required		1	1	1
	High Pressure Fluid	None	1	1	1	Non required		1	1	1
	injection									
D.2.4	Ionising radiation	None	1	1	1	Non required	Z12 No Ionisation	1	1	1
D.2.5	Non ionising radiation	None	1	1	1	Non required		1	1	1
D.2.6	Moving parts	Doors	1	1	1	Recommendation not to	F5 User instructions	1	1	1
						force door.				
	Moving & positioning	None	1	1	1	Non required	D2 Device description	1	1	1

7596.doc 13/04/2011 Page 1 of 9



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		risk.	Haz.	Haz.				Haz.	Haz.	
	patient									
D.2.7	Unintended motion	None	1	1	1	Non required	D2 Device description	1	1	1
D.2.8	Suspended masses	None	1	1	1	Non required	D2 Device description	1	1	1
D.2.9	Patient support failure	None	1	1	1	Non required	D2 Device description	1	1	1
D.2.10	Pressure (vessel rupture)	None	1	1	1	Non required	D2 Device description	1	1	1
D.2.11	Acoustic pressure	None	1	1	1	Non required	D2 Device description	1	1	1
	Ultrasonic energy	None	1	1	1	Non required		1	1	1
	Infrasound energy	None	1	1	1	Non required	D2 Device description	1	1	1
	Sound	None	1	1	1	Non required		1	1	1
D.2.12	Vibration	None	1	1	1	Non required		1	1	1
D.2.13	Magnetic fields	None	1	1	1	Non required	D2 Device description	1	1	1
	(eg. MRI)					-	-			
<b>D.3</b>						None				
D.3.1	Bio-contamination	None	2	2	4	Easy to clean	Z6 Bio-compatibility	1	1	1
							F5 Instruction Manual			
							Manufacturers data			
	Bacteria	None	1	1	1	Non required		1	1	1
	Viruses	None	1	1	1	Non required		1	1	1
	Other agents (prions)	None	1	1	1	Non required		1	1	1
D.3.2	Bio-incompatibility	None	1	2	2	Non required	Z6 Bio-compatibility	1	2	2
D.3.3	Incorrect formulation	None	1	1	1	Non required		1	1	1
	(chemical composition)									
D.3.4	Toxicity	None	1	1	1	Non required		1	1	1
D.3.5	Allergenicity/ irritancy	None	1	1	1	Non required		1	1	1
D.3.6	Mutagenicity	None	1	1	1	Non required		1	1	1
D.3.7	Oncogenicity	None	1	1	1	Non required		1	1	1

7596.doc 13/04/2011 Page 2 of 9



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		<b>Component posing</b>	of	of				of	0f	
		risk.	Haz.	Haz.				Haz.	Haz.	
D.3.8	Carcinogenicity	None	1	1	1	Non required	Z11 Carcinogenic	1	1	1
							substances			
D.3.9	Re and/or cross infection	Instrument	1	1	1	Easy to clean	O1 Sterilisation	1	1	1
							F6 Cleaning instructions			
							F5 Instructions for use			
	Pyrogenicity	None	1	1	1	Non required		1	1	1
D.3.11	Inability to maintain	Oxygen hood	2	2	4	Easy to clean	O1 Sterilisation	1	2	2
	hygienic standards						F6 Cleaning instructions			
							F5 Instructions for use			
D.3.12	Degradation	Oxygen hood	1	1	1	Easy to clean	O1 Sterilisation	1	1	1
							F6 Cleaning instructions			
							F5 Instructions for use			
	Chemical	None	1	1	1	Non required		1	1	1
	Acids or Alkalis	None	1	1	1	Non required		1	1	1
	Contaminates	None	1	1	1	Non required		1	1	1
	Processing aids	None	1	1	1	Non required		1	1	1
	Cleaning, disinfection	Instrument	2	2	4	East to clean	O1 Sterilisation	1	1	1
							F6 Cleaning instructions			
							F5 Instructions for use			
	Testing aids	None	1	1	1	Non required		1	1	1
	Medical gases	None	1	1	1	Non required		1	1	1
	Anaesthetic products	None	1	1	1	Non required		1	1	1
<b>D.4</b>						None				
D.4.1	Electromagnetic fields	None	1	1	1	Non required		1	1	1
D.4.2	Susceptibility to	None	1	1	1	Non required	D4 EMC	1	1	1
	electromagnetic									

7596.doc 13/04/2011 Page 3 of 9



Ref.	Hazard.	Related part / Component posing risk.	Sev of Haz.	Like of Haz.	Risk.	Solution.	Document referenced.	Sev of Haz.	Like 0f Haz.	Risk.
	interference									
D.4.3	Emissions of electromagnetic interference	None	1	1	1	Non required	D4 EMC	1	1	1
D.4.4	Inadequate supply of power	None	1	1	1	Non required		1	1	1
D.4.5	Inadequate supply of coolant	None	1	1	1	Non required		1	1	1
D.4.6	Storage / operation outside prescribed environmental conditions	Oxygen hood	1	2	2	No specific environmental storage/operating conditions imposed.	F5 Instructions for use	1	2	2
D.4.7	Incompatibility with other devices with which the product is intended to be used	None	1	1	1	Non required. Stand alone		1	1	1
D.4.8	Accidental mechanical damage	Instrument	1	1	1	May be damaged if dropped	F5 Instructions for use	1	1	1
D.4.9	Contamination due to waste products and/or device disposal	None	1	1	1	Non required		1	1	1
<b>D.5</b>						None				
D.5.1	Electricity	None	1	1	1	Non required		1	1	1
D.5.2	Radiation	None	1	1	1	Non required		1	1	1
D.5.3	Volume	None	1	1	1	Non required		1	1	1
D.5.4	Pressure	None	1	1	1	Non required		1	1	1

7596.doc 13/04/2011 Page 4 of 9



Ref.	Hazard.	Related part / Component posing risk.	Sev of Haz.	Like of Haz.	Risk.	Solution.	Document referenced.	Sev of Haz.	Like 0f Haz.	Risk.
D.5.5	Supply of medical gases	None	1	1	1	Non required		1	1	1
D.5.6	Supply of anaesthetic agents	None	1	1	1	Non required		1	1	1
<b>D.6</b>	Hazards related to the u	se of the medical dev	ice and	l contri	butory	factors				
D.6.1	Inadequate labelling	None	2	1	2	Easy to use	F7 Labels	1	1	1
D.6.2	Inadequate operating instructions	None	2	1	2	Instructions for use comprehensively cover the product.	F5 User Instructions	1	1	1
	Inadequate description of performance	None	1	1	1	Non required	M3 SpecificationF5 User Instructions	1	1	1
	Inadequate specification of intended use	None	1	1	1	Non required	F5 User Instructions	1	1	1
	Inadequate disclosure of limitations	None	1	1	1	Non required	F5 User Instructions	1	1	1
D.6.3	Inadequate specification of accessories	None	1	1	1	Non required	F5 User Instructions	1	1	1
D.6.4	Inadequate specification of pre-use checks	Instructions	2	2	4	Instrument must be prechecked.	F5 User Instructions F9 Training	2	1	2
D.6.5	Over-complicated operating instructions	None	1	1	1	Non required	F5 User Instructions	1	1	1
D.6.6	Inadequate specification of service and maintenance	None	2	1	2	No service or maintenance except batteries	G2 Service Manual G1 maintenance G3 Service Procedures	1	1	1
D.6.7	Use by unskilled / untrained personnel	None	2	2		Instructions for use comprehensively cover the product. For use by trained	F5 User Instructions F9 Training	2	1	2

7596.doc 13/04/2011 Page 5 of 9



Ref.	Hazard.	Related part / Component posing risk.	Sev of Haz.	Like of Haz.	Risk.	Solution.	Document referenced.	Sev of Haz.	Like 0f Haz.	Risk.
						qualified personnel				
D.6.8	Reasonable foreseeable misuse	None	2	1	2	Non required		2	1	2
D.6.9	Insufficient warning of side effects	None	1	1	1	Non required		1	1	1
D.6.10	Inadequate warnings of hazards likely with reuse of single use devices	None	1	1	1	Non required		1	1	1
	and other metrological aspects	None	1	1	1	Non required		1	1	1
D.6.12	Misrepresentation of results	None	1	1	1	Non required		1	1	1
D.6.13	Incompatibility with consumables / accessories / other devices	None	1	1	1	Non required		1	1	1
D.6.14	Sharp edges or points	None	2	2	4	If damaged user to assess level of damage before use		2	1	2
<b>D.7</b>						None				
D.7.1	Mistakes & judgement errors	Instrument	3	1	3	Instructions for use comprehensively cover the product. For use by trained qualified personnel		1	1	1
	Incorrect or inappropriate output or	None	1	1	1	Non required		1	1	1

7596.doc 13/04/2011 Page 6 of 9



Ref.	Hazard.	Related part / Component posing risk.	Sev of Haz.	Like of Haz.	Risk.	Solution.	Document referenced.	Sev of Haz.	Like Of Haz.	Risk.
	functionality									
	Erroneous data transfer	None	1	1	1	Non required		1	1	1
	Loss or deterioration in function	None	1	1	1	INon required		1	1	1
D.7.2	Lapses and cognitive recall errors	None	1	1	1	Non required	F% User Instructions	1	1	1
D.7.3	Slips & blunders (mental or physical)	None	1	1	1	Non required	F5 User Instructions	1	1	1
	Rule based failure	None	1	1	1	Non required		1	1	1
	Knowledge based failure	None	1	1	1	Non required		1	1	1
	Routine violation	None	1	1	1	Non required		1	1	1
D.7.4	Violation or abbreviation of instructions, procedures etc	None	1	1	1	Non required	F5 User Instructions	1	1	1
D.7.5	Complex or confusing control system	None	1	1	1	Non required		1	1	1
D.7.6	Ambiguous or unclear device state	None	1	1	1	Non required		1	1	1
D.7.7	Ambiguous or unclear presentation of settings, measurement, or other information	None	1	1	1	Non required	International symbols	1	1	1
D.7.8	Misrepresentation of results	None	1	1	1	Non required		1	1	1
D.7.9	Insufficient visibility, audibility or tactility	None	1	1	1	Non required		1	1	1

7596.doc 13/04/2011 Page 7 of 9



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D.7.10	Poor mapping of controls to action or of displayed information to actual state	None	1	1	1	Non required		1	1	1
D.7.11	Controversial modes or mappings as compared to existing equipment	None	1	1	1	Non required		1	1	1
<b>D.8</b>						None				
D.8.1	Erroneous data transfer	None	1	1	1	Non required		1	1	1
D.8.2	Lack of, or inadequate specification for maintenance including post maintenance functional tests	None	1	1	1	Non required		1	1	1
D.8.4	Inadequate maintenance	Instrument	1	1	1	Instrument will not pass pre-use check		1	1	1
D.8.5	Lack of adequate determination of end of device life	None	1	1	1	Non required		1	1	1
D.8.6	Loss of electrical integrity	None	1	1	1	Non required		1	1	1
D.8.7	Loss of mechanical integrity	None	1	1	1	Non required		1	1	1
D.8.8	Inadequate packaging (contamination and / or deterioration of the	None	1	1	1	Non required		1	1	1

7596.doc 13/04/2011 Page 8 of 9

# MVIAMED

# Risk Assessment iaw EN ISO 14971:2000 Annex D: Possible hazards with medical devices. Ammended to match EN14971:2009

Ref.	Hazard.	Related part / Component posing risk.	Sev of Haz.	Like of Haz.	Risk.	Solution.	Document referenced.	Sev of Haz.	Like 0f Haz.	Risk.
	device)	11311	TIME	TIME				TIME	TIME	
D.8.9	Re-use and/or improper re-use	None	1	1	1	Non required		1	1	1
D.8.10	Deterioration in function (gradual occlusion of fluid / gas path or change in resistance to flow, electrical conductivity) as a result of repeated use	None	1	1	1	Non required		1	1	1
		None								

J.S.Lamb 31/01/11