

Ref.	Hazard.	Related part /	Sev	Like	Risk.	Solution.	Document referenced.	Sev	Like	Risk.
		Component posing	of	of				of	$\mathbf{0f}$	
		risk.	Haz.	Haz.				Haz.	Haz.	
<b>D.2</b>	<b>Energy hazards and con</b>	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		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	None	1	1	1	Non required		1	1	1
	Gravity : Falling	None	1	1	1	Non required		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 injection	None	1	1	1	Non required		1	1	1
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	None	1	1	1	Non required	D2 Device description	1	1	1
	Moving & positioning patient	None	1	1	1	Non required	D2 Device description	1	1	1
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

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		Component posing	of	of				of	0f	
		risk.	Haz.	Haz.				Haz.	Haz.	
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 descriptionD2	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	1	2	Non required	F5 Instructions for use	1	1	1
	Bacteria	None	2	1	2	Non required	F5 Instructions for use	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	1	1	Non required	Z6 Bio-compatibility	1	1	1
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
D.3.8	Carcinogenicity	None	1	1	1	Non required	Z11 Carcinogenic	1	1	1
							substances			
D.3.9	Re and/or cross infection	None	2	1	2	Non required	F5 Instructions for use	1	1	1

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		<b>Component posing</b>	of	of				of	$\mathbf{0f}$	
		risk.	Haz.	Haz.				Haz.	Haz.	
D.3.10	Pyrogenicity	None	1	1	1	Non required		1	1	1
D.3.11	Inability to maintain	None	2	1	2	Non required	F5 Instructions for use	1	1	1
	hygienic standards									
D.3.12	Degradation	None	1	1	1	Non required		1	1	1
	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	None	1	1	1	Non required		1	1	1
	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									
	interference									
D.4.3	Emissions of	None	1	1	1	Non required	D4 EMC	1	1	1
	electromagnetic									
	interference									
D.4.4	Inadequate supply of	None	1	1	1	Non required		1	1	1
	power									
D.4.5	Inadequate supply of	None	1	1	1	Non required		1	1	1
	coolant									

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Ref.	Hazard.	Related part /	Sev	Like	Risk.	Solution.	Document referenced.	Sev	Like	Risk.
		Component posing risk.	of Haz.	of Haz.				of Haz.	0f Haz.	
D.4.6	Storage / operation outside prescribed environmental conditions	None	1	1	1	Non required		1	1	1
D.4.7	Incompatibility with other devices with which the product is intended to be used	None	1	1	1	Non required		1	1	1
D.4.8	Accidental mechanical damage	None	1	1	1	Non required		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
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	ibutory	factors				
D.6.1	Inadequate labelling	None	1	1	1	Non required	F7 Labels	1	1	1
D.6.2	Inadequate operating instructions	None	1	1	1	Non required	F5 User Instructions	1	1	1

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		Component posing	of	of				of	0f	
		risk.	Haz.	Haz.				Haz.	Haz.	
	Inadequate description of	None	1	1	1	Non required	M3 SpecificationF5 User	1	1	1 1
	performance					-	Instructions			
	Inadequate specification	None	1	1	1	Non required	F5 User Instructions	1	1	1 1
	of intended use					•				
	Inadequate disclosure of	None	1	1	1	Non required	F5 User Instructions	1	1	1
	limitations									
D.6.3	Inadequate specification	None	1	1	1	Non required	F5 User Instructions	1	1	1
	of accessories									
D.6.4	Inadequate specification	None	1	1	1	Non required	F5 User Instructions	1	1	1
	of pre-use checks						F9 Training			
D.6.5	Over-complicated	None	1	1	1	Non required	F5 User Instructions	1	1	1
	operating instructions									
D.6.6	Inadequate specification	None	1	1	1	Non required		1	1	1
	of service and									
	maintenance									
D.6.7	Use by unskilled /	None	1	1	1	Non required	F5 User Instructions	1	1	1
	untrained personnel						F9 Training			
D.6.8	Reasonable foreseeable	None	1	1	1	Non required		1	1	1
	misuse									
D.6.9	Insufficient warning of	None	1	1	1	Non required		1	1	1
	side effects									
D.6.10	Inadequate warnings of	None	1	1	1	Non required		1	1	1
	hazards likely with re-									
	use of single use devices									

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Ref.	Hazard.	Related part / Component posing	Sev of	Like of	Risk.	Solution.	Document referenced.	Sev of	Like 0f	Risk.
		risk.	Haz.	Haz.				Haz.	Haz.	
	Incorrect measurement and other metrological aspects	None	1	1	1	Non required		1	1	1
	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	1	1	1	Non required		1	1	1
<b>D.7</b>						None				
D.7.1	Mistakes & judgement errors	None	1	1	1	Non required		1	1	1
	Incorrect or inappropriate output or functionality	None	1	1	1	Non required		1	1	1
	Erroneous data transfer	None	1	1	1	Non required		1	1	1
	Loss or deterioration in function	None	4	1	4	Non required	F5 Instructions for use F9 Training	1	1	1
D.7.2	Lapses and cognitive recall errors	None	1	1	1	Non required		1	1	1
D.7.3	Slips & blunders (mental or physical)	None	1	1	1	Non required		1	1	1
	Rule based failure	None	1	1	1	Non required		1	1	1

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Ref.	Hazard.	Related part /	Sev	Like	Risk.	Solution.	Document referenced.	Sev	Like	Risk.		
		<b>Component posing</b>	of	of				of	0f			
		risk.	Haz.	Haz.				Haz.	Haz.			
	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		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		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		
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											

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		risk.	Haz.	Haz.				Haz.	Haz.	
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	None	1	1	1	Non required		1	1	1
	post maintenance functional tests									
D.8.4	Inadequate maintenance	None	1	1	1	Non required		1	1	1
D.8.5	Lack of adequate determination of end of device life	None	4	1	4	Non required	F5 User Instructions F9 Training	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 device)	None	1	1	1	Non required		1	1	1
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)	None	1	1	1	Non required		1	1	1

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**DATE:** 



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

Ref.	Hazard.	Related part /	Sev	Like	Risk.	Solution.	Document referenced.	Sev	Like	Risk.
		<b>Component posing</b>	of	of				of	0f	
		risk.	Haz.	Haz.				Haz.	Haz.	
	as a result of repeated									
	use									

J.S.Lamb