Revision		Description of Change

Item Number	Function	Risk Analysis						Risk	Risk/Benefit Analysis	Information/ Comments					
	Functional Output	HAZARD (Potential cause of Hazard)	Hazardous Situation	HARM (Potential adverse effect)	Cause	SEVERITY	OCCURRENCE	RPN	RISK MITIGATION	SEVERITY	OCCURRENCE	RPN	Risk reduced as far as possible? (afap)	Benefits Outweigh Risks? (Yes/No)	Comments or information be be provided to User
Description		Description of why the product will not perform conform specs		Description of resulting injury, damage					The way by which the risk is reduced/ eliminated				afap	Yes/No	e.g. IFU, labeling
Example	Debris or Fragment	Small fragment from device created during use	Fragment is swallowed and in GI tract	Fragment causes blockage requiring surgery	Material strength is too low and not designed for impact				Material Specification of high impact polystyrene						
1	0	Shape of finger flexor is not compatible	Size of finger loops is incorrect	Numbness/ nerve damage	Tight loops obstruct blood flow	4	2	8			2	4		Yes	
		with baby's arm	Gripper/flexor slips off	Bruising	Material surface does not provide enough friction	3	3	9	Flexor has a strap to secure the grip	2	2	4	afap	Yes	
2	Attachment to finger flexor	Finger flexor is not scurely attached to baby's arm	Baby yanks hand away from device, leading to high strain on arm	Skin soreness (abrasions)	Material surface too rough on baby skin (fricction needed to prevent slipping)	3	3	9		2	2	4		Yes	
3								0				0			
4	Stiffness of finger flexor	Flexing puts too much pressure on patient arm	4 ** * +	Tissue soreness	Patient has weak grip	2	4	8	Test for and specify the most	2	2	4		yes	
5				Carpal tunnel injury	Material has (too) high compressive strength	4	3	12	effective range of compressive strength for material		1	2	afap	yes	
6		Flexor compresses easily		Veins do not appear	Material has low compressive strength	4	4	16	strength for material	2	1	2		yes	
7	Penetration depth of microneedles	Excessive pressure applied during blood draw	Microneedle breaks and enters baby's skin	Bruising causes discomfort, pain, and leads to more serious complications	Patch designed with too much pressure	3	4	12	Use stainless steel MNs	2	1	2	afap	yes	
8	Blood Sample	.Needle prick or puncture	Baby experiences bleeding or infection at the puncture site	Pain, discomfort, infection, or bruising at the puncture site	Improper needle insertion, incorrect needle size, or insufficient sterilization of equipment or skin	3	3	9				0			
9	Blood Sample	Transmission of Infectious disease	Contamination of the needle with bloddborne pathogens	Infection with hepatitis B, hepatitis C, HIV, or other bloodborne pathogens	Use of a contaminated needle or inadequate sterilization of the needle and surrounding skin	4	2	8				0			
10	Blood Sample	Blood loss or anemia	Excessive or repeated blood drawing	Hemorrhage, anemia, or iron deficiency	Drawing too much blood, too often, or from a vein that is not suitable for blood collection.	4	2	8				0			
FINAL		Overall Residual Risk is Acceptable (Yes/No):													