Appendix 1: Table outlining the advantages and disadvantages of different CVADS.

	Advantages	Disadvantages
General (all CVADs)	•Reduces the need for	•Increased risk of infection.
	repeated peripheral	
	cannulation/venepuncture.	•They all require routine care
		and maintenance to facilitate
	Reduces trauma and anxiety	their effectiveness.
	to the patient relating to	a Diagona ant of CVA Da magas a
	treatment delivery ie less pain and trauma caused by frequent	•Placement of CVADs poses a potential risk to the patient for
	cannulation and drug	developing bleeding, venous
	administration.	obstruction, cardiac
		tamponade, emboli, SVC/IVC
	Provide long-term venous	obstruction and sepsis.
	access.	
		◆CVADs have an increased risk
	Provide a safer route of	of developing thrombi and/or
	administration for vesicant	fibrin sheaths.
	therapy than peripheral or midline access as there is a less	
	risk of extravasation with	
	CVADs than peripheral devices	
	(refer to the extravasation	
	CPG).	
Skin tunnelled cuffed central venous catheters (CVC)	•Does not require a needle to access.	Cosmetically visible causing some patients issues with body
	. Han a languagial, af	image.
	Has a lesser risk of extravasation than a Port as	Higher risk of accidental
	catheters are anchored in situ	damage and removal compared
	with a dacron cuff.	to Implanted ports.
	•Easy to access & use	Potentially may have a greater
		risk of developing a catheter-
		related infection than PICCs
		and Implanted ports.
		•Extra care is required when
		bathing.
		•Swimming is not
		recommended in
		immunosuppressed children.
		Weekly dressing changes
		which some children find
		traumatic
DICC-	-Theorem and the state of the s	-National State
PICCs	•These are commonly inserted	 Not generally used for long

	in the veins above the	term IV therapy (>6 months),
	antecubital fossa.	but have been used for longer when required.
	May be inserted without the	-
	use of a general anaesthetic.	 Accidental damage and/or removal, due to their small
	•They can be removed by an	lumen size, placement and
	experienced nurse/doctor in	inadequate securing in
	the ward environment, without	paediatric patients. If not
	the need for an anaesthetic.	adequately secured under a dressing there is a risk a
		hole/split or break may occur,
		thus requiring repair or removal
Implanted ports (Ports)	Cosmetically less noticeable	Not suitable for a needle
	and may improve body image	phobic child.
	concerns.	
	Probable lower risk of	Ports may not be suitable for
	infection than external	the administration of long-term continuous vesicant therapy
	catheters (Loveday 2014).	such as PN (Rationale 1).
	catheters (zoveday zoz 1).	such as the (nationale 1).
		Ports may not be advisable for
	•Less risk of accidental damage	in very obese or very
	to the device.	underweight children
	Box to box or and	(Rationale 2).
	Require less care and maintenance than external	
	devices (only monthly flushes	
	required).	
	•Children/young people can go	
	swimming when the Port	
	needle is not in situ.	