

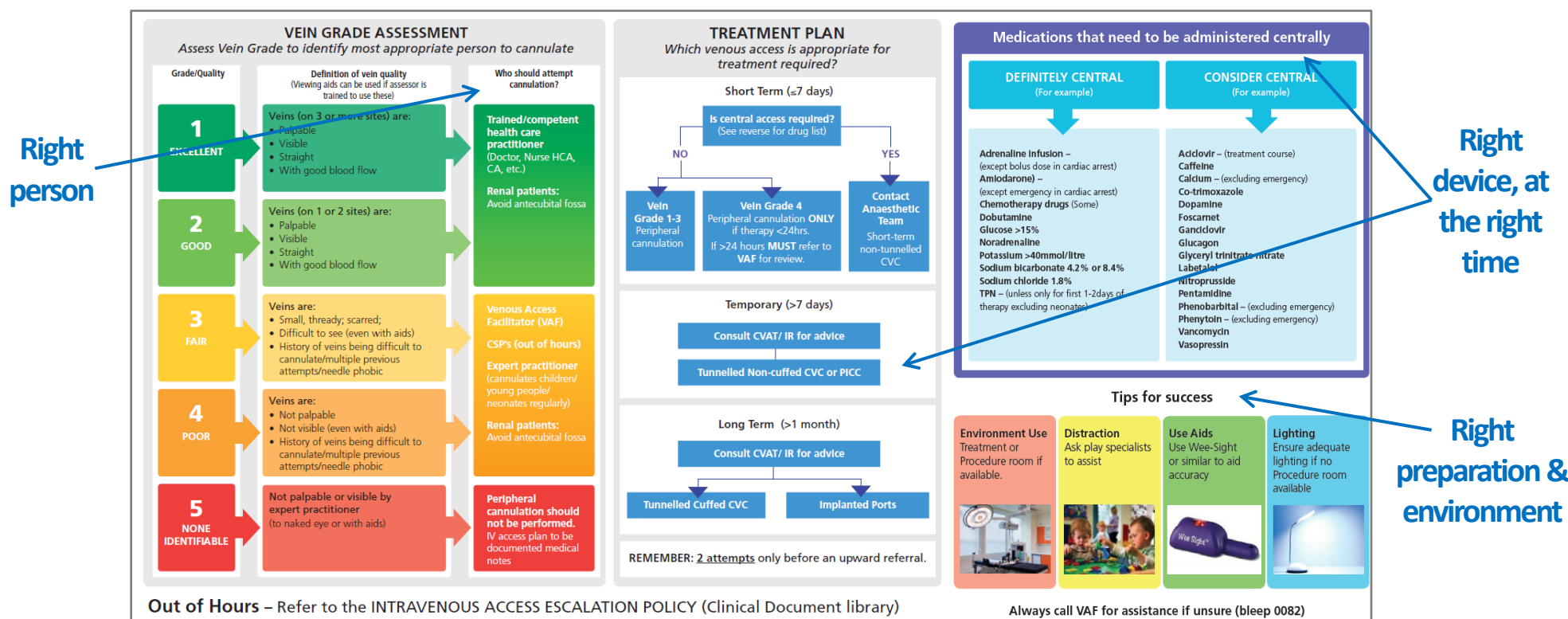
Vessel Health & Preservation (VHP) Framework: Putting the child first in vascular access

Aim: To reduce the incidence of extravasation injuries and repeated cannulation attempts at GOSH by 30 March 2019

Intervention: The Vessel Health & Preservation (VHP) tool was introduced to standardise vein assessment and appropriate escalation. It also supports clinical teams in advocating for their patient every time IV access is required.

How we did it: An MDT project group was established, led by the Chief Nurse

- Developed the GOSH paediatric VHP tool, based on the national adult tool.
- A number of PDSA cycles were carried out on pilot wards, with adaptations based on staff feedback
- Rolled out Trust-wide through the interactive 'Vessel Health Roadshow' engagement event
- Vein grade embedded into care pathways on EPIC (electronic patient records)
- VHP embedded in Trust policy, guideline and training
- Educational video developed for staff and families



Outcome: The VHP tool is now operational on all GOSH wards, helping ensure children and young people have the **right vascular access device**, placed at the **right time**, by the **right person**, in the **right clinical environment**.

Benefits: Patient safety and experience improved – appropriate IV access inserted by expert practitioners reduces risk of extravasation, phlebitis, treatment delays, prolonged hospital stays, or infection. Cannulation is less traumatic, with fewer repeated attempts.

Measures of improvement:

- Reduced no. of extravasations reported monthly on Datix: from **3.85 to 2.29**
- Sustained reduction in no. of extravasations referred monthly to the Plastics team: from **11.7 to 5**
- Reduced no. of cannulation attempts by clinicians prior to referral to Vascular Access Facilitators (VAF): from **1.9 to 1.2**
- Reduced % of patients with >two unsuccessful cannulation attempts before referral to VAFs: from **34% to 15%**

Staff feedback:

The VHP “helps prevent distress in children with excess attempts of cannulation”

It has “given me confidence to escalate”

