

Birmingham Children's Hospital NHS NHS Foundation Trust

# Pharmacy Technicians Support the Administration of I.V's

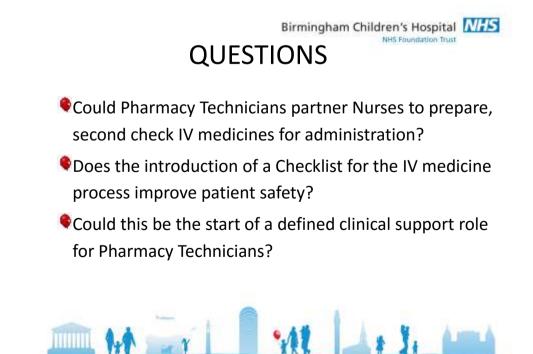
Marie Slimm, Chief Pharmacy Technician



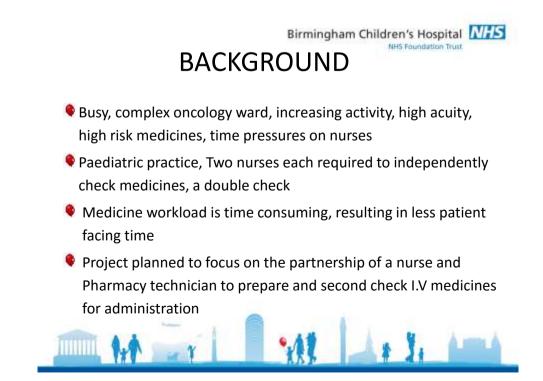
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# There is no conflict of interest with respect to financial relationships to disclose in this presentation









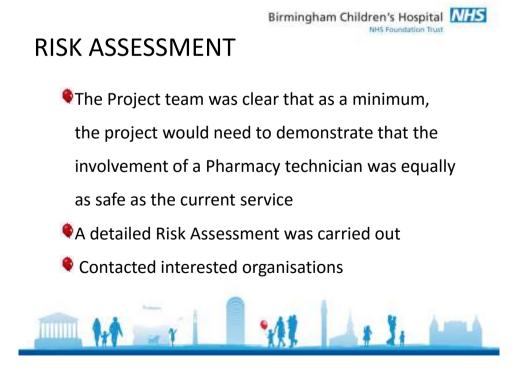


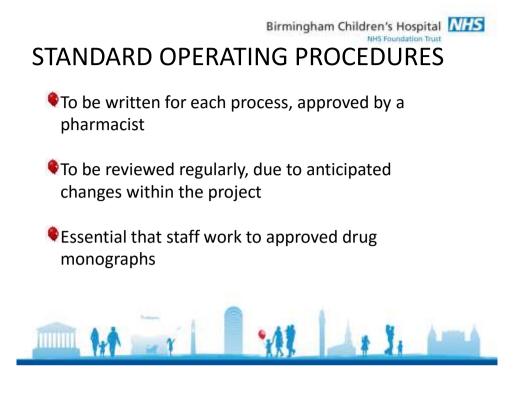
Birmingham Children's Hospital What roles do Pharmacy Technicians have now in the U.K?

- 🎈 Dispensing
- Accuracy Checking, national accreditation
- Ward Based Service, national accreditation
- Medicines Information, national accreditation
- 🎙 Clinical Trials

- Purchasing of Medicines, including Unlicensed
- Aseptic Preparation









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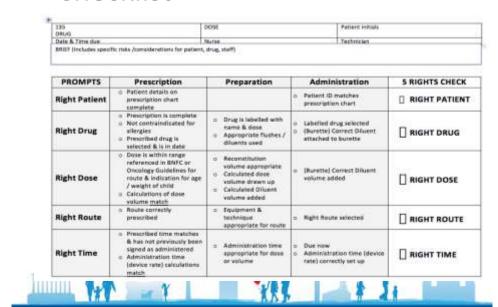
# Checklist based on the 5 RIGHTS

- RIGHT PATIENT
- 🎙 RIGHT DRUG
- 🂐 RIGHT DOSE
- 🂐 RIGHT ROUTE
- 🂐 RIGHT TIME



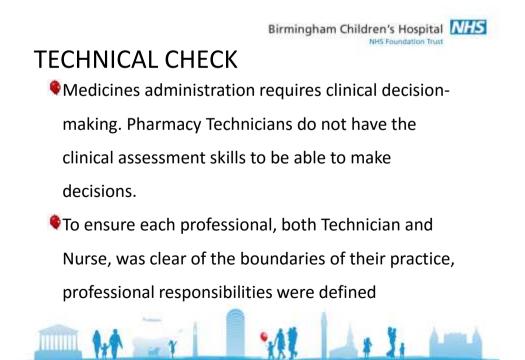
# Checklist

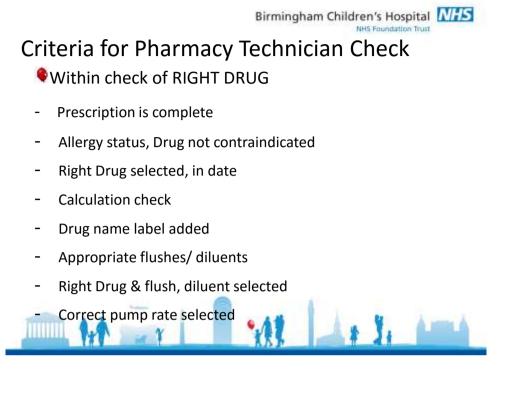
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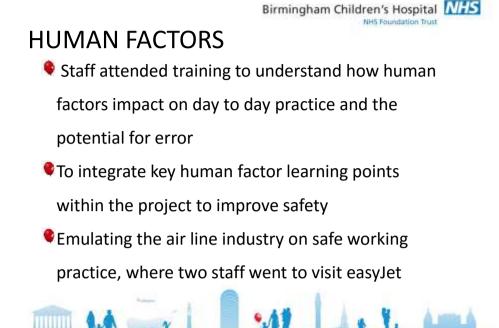
	NURSE	TECHNICIAN
Dose Volume Calculation Prescribed Dose & Medicine Strength must be in same units		Dose Volume Calculation CHECK Prescribed Dose & Medicine Strength must be in same units
Panel Sec	The second secon	Datas X Medicine = Required
lequired st	inal Volume Calculation regits & Prescribed Dose must be in the same int = =	
Jose/ Fina	a volume = screngen	Provide a strate and strategy a
Pump Rate	e Calculation e calculated is <u>mis/hr</u> ne for administration is defined in drug mono	Pump Rate Calculation CHECK Rate must be calculated in mb/hr

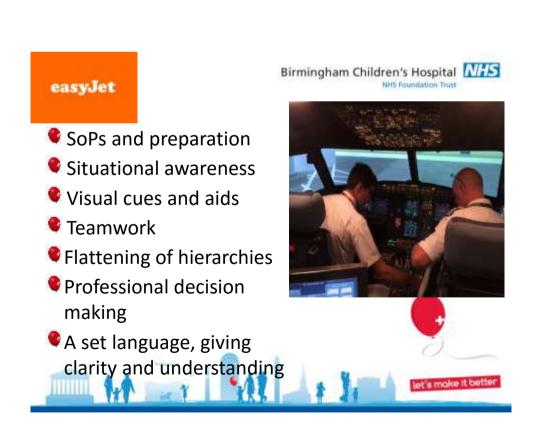
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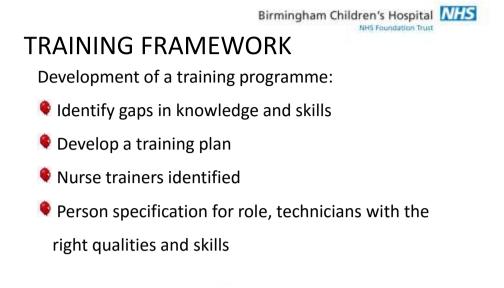














### Birmingham Children's Hospital MHS Foundation Trust TRAINING PROGRAMME - underpinning

- Attend IV clinical skills & drug admin study day
- Complete e learning modules
- Attend Human Factors Training Day
- Read Trust Policies & SOP's, Trust, Ward and Pharmacy





# **Training Programme - practical**



Birmingham Children's Hospital MHS Foundation Twee TRAINING PROGRAMME – Supervised Practice on Ward Observation and supervised practice of dose

checking, IV preparation, checking & administration

including pump checking

- Completion of Checklist
- Reflections on practice and weekly 1:1's
- Complete a log & Competency assessment
- 🎈 Sign off







### Birmingham Children's Hospital **NHS** Day to Day - Administration

- Accompany nurse to the bedside
   Confirm patient ID
   Checks, pump rate, correct fluid, timings of bolus injections
   Checklist
   Nurse administers
   Records complete
- Getting to know the patient







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- Patients and Parents They have shown a real interest in the project and think that it is a 'good idea'
- Nursing Staff Technicians offer reassurance and confidence particularly to junior staff when faced with complex calculations. Protocol-driven approach is welcomed. The team are well integrated
- Technicians 'Working on the IV project has been at times scary, exciting and eye opening. I have gained new skills and developed my knowledge. Working with the nurses so closely has increased collaboration and a deeper understanding of the important roles we all carry out on the wards to help to achieve an outstanding level of patient care'.



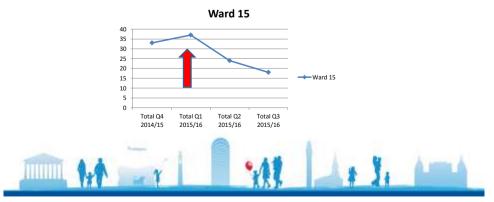


## **Medication Safety Incidents**

The arrow indicates the start of the project. You can see that there has been a noticeable reduction in Medication Safety Incidents since that time on the project ward. It is too soon to draw conclusions. Nevertheless the data is dramatic.

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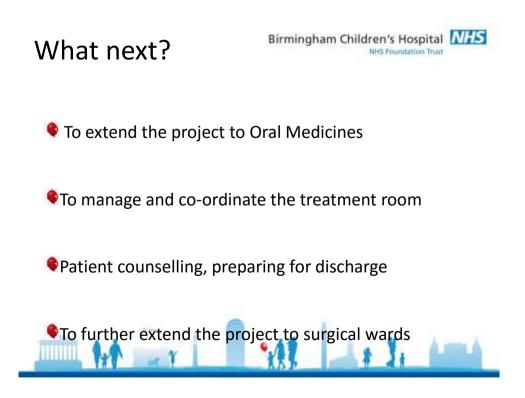




# Outcomes

- New Approach
- Protocol driven
- Controlled environment
- Calculations finalised at onset, not at the bedside
- A transferrable model to other wards
- Timely administration of medicines, a collaboration of the Team
- A truly multi professional skill mix approach to patient care
- Improved medicines management on wards
- Technician skills broadened





# Conclusion Fechnicians can safely partner a nurse in the I.V medicine process, releasing time to care Improving patient safety by introducing a quality systems approach Benefit of inter professional skill mix Potential to adopt across all ward areas Improved Medicines Management on the ward Uniquely a pharmacy technician development



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### With Special thanks to the Nurse/Pharmacy Team

Heather Petts Lead Oncology Nurse e Dawn Forbes Nurse trainer Jo Correa Senior nurse, Medicines Management 8 Anthony Sinclair Chief Pharmacist . Jason Patel Lead Oncology Pharmacist 8 Ruth Shuard Lead Pharmacy technician • Maya Patel Senior Pharmacy technician Katie Mudd Pharmacy technician Daniel Pygall **Pharmacy Technician** Debbie Butler Quality lead Technician



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- Could Pharmacy Technicians partner Nurses to prepare, second check IV medicines for administration?
- Does the introduction of a Checklist for the IV medicine process improve patient safety?
- Could this be the start of a defined clinical support role for Pharmacy Technicians?

