

Competency Assessment for Non Medical Prescribing of Blood and Blood Components

Name of Candidate (please print).....

Ward/Department:.....

Band/Job Title:.....

Professional Registration Number.....

Date initial 'in-house' training curriculum package completed

(See Appendix 1)

Date annual e-learning package or equivalent update completed:

To be completed by the medical consultant delegating responsibility

Name of Assessor (please print).....

Ward/Department.....

Job Title

Signature

Date last transfusion update accessed

Guidance notes for the Assessors

1. The practical assessment should follow a period of clinical supervision in which the candidate gains experience and practice in assessing the patients and prescribing blood and blood components.
2. The competency assessment must be supervised by the medical consultant delegating responsibility using the attached competency assessment form.
3. Once competency assessment has been successfully completed the Specialist Practitioner of Transfusion must be notified. The applicant will then be sent a formal letter stating the date from which they can prescribe blood and blood components. This information will be then made available to the Blood Transfusion Team

Competency Assessment for Non Medical Prescribing of Blood and Blood Components

This assessment criteria is based upon the document:

'A Framework to support Nurses and Midwives Making the clinical Decision and providing the writer instruction for Blood Component Transfusion,' (Green and Price 2009)

Performance Criteria	Knowledge and Competencies	Date	Signed
Patient assessment and clinical decision making	<ul style="list-style-type: none"> • Understands the requirement to accurately document all actions and conversations with patient/carer. • Ability to link clinical picture with interpretation of blood test results. • Ability to make appropriate referral if blood transfusion refused. • Understand how to explain risks and benefits of transfusions and available alternatives. • Know how to provide patient information leaflets. 		
Interpreting blood test results	<ul style="list-style-type: none"> • Understands normal and abnormal Haematology and Biochemistry results. • Ability to interpret results, initiate treatment and know if more tests and/or further evaluation is required 		
Writing the prescription	<ul style="list-style-type: none"> • understands that the prescription must include: • Full patient details- full name, hospital number, date of birth. • A suitable infusion rate • Volume required (Units/Bags) • Any special requirements • Concomitant drugs that need to be administered • Can discuss the incompatibility of blood with other infusion fluids / IV drugs. 		
Anatomy and the physiology of blood	<p>Understands the structure, function and production of;</p> <ul style="list-style-type: none"> • Red Cells • White Cells • Platelets • Plasma 		
Understanding anaemia	<ul style="list-style-type: none"> • Can define the types of anaemia • Understands the physiological processes for iron deficiency anaemia • Knows when to refer the patient for further investigations and treatment • Knows how to order further investigations 		

<p>Pre-transfusion testing</p>	<p>Has an understanding of:</p> <ul style="list-style-type: none"> • Pre transfusion sampling process • BCSH guidelines for pre transfusion testing • Sample labelling requirements • Laboratory process for pre transfusion testing 		
<p>Indications for use of blood and blood components</p> <ul style="list-style-type: none"> • Appropriate use • alternatives 	<ul style="list-style-type: none"> • Can define the indications for the use of blood and blood components within their own areas • Can make the decision for transfusion within best evidence available and local guidelines. • Know the alternatives to consider, if appropriate • Knows when to consult with medical consultant with responsibility for the patient and/or consultant haematologist with responsibility for transfusion. 		
<p>Special transfusion requirements</p>	<ul style="list-style-type: none"> • Can define which patient groups will have special blood transfusion requirements (irradiated and/or CMV) • Understands the relevance of antibody screening and detection when requesting emergency and routine blood components • Understands the process for notification of special requirements to the laboratory and staff administering the component 		
<p>Risks and adverse events associated with transfusion</p>	<p>Understands the risk of transfusion;</p> <ul style="list-style-type: none"> • Transfusion transmitted bacterial and viral infection (TTI) • Transfusion related acute lung injury (TRALI) • Acute/delayed haemolytic reaction • Wrong blood to wrong patient • Fluid overload • Iron overload • Anaphylaxis • Can recognise the signs and symptoms of transfusion reaction • Can describe actions required in an emergency situation 		
<p>Transfusion guidelines and protocols</p>	<p>Can demonstrate knowledge of:</p> <ul style="list-style-type: none"> • Trust transfusion guidelines/policies • Speciality guidelines/policies • Patient information leaflets • Blood safety & quality regulations SI2005/50 traceability requirement 		

<p>Legal responsibilities</p>	<ul style="list-style-type: none"> • Has knowledge and understanding of relevant professional standards of conduct, performance and ethics • Can explain why the reason for transfusion must be recorded within the patients notes • Can explain why all actions must be documented in the patients notes 		
<p>Ordering blood and blood components</p>	<p>Has knowledge of trust guidelines for ordering of blood and blood components and is aware the laboratory requires the following information:</p> <ul style="list-style-type: none"> • Family and given name • Hospital number • Date of birth • Date/time required • Special transfusion requirements • Diagnosis/reason for transfusion • Contact name and bleep/telephone number 		
<p>Administration process</p>	<ul style="list-style-type: none"> • If applicable to role, has current three yearly competency for the administration of blood and blood components as required by the NPSA SPN14 • Can described the principles of positive patient identification • Knows the process for collection of blood components for transfusion • Can described the process for checking blood component and patient compatibility • can described the procedure for monitoring the transfused patient • understands the legal requirements for documentation and traceability 		

Criteria for Blood and Blood Components transfusion prescription by the Advanced Nurse Practitioner

Principle: Minimise the need for blood/blood products transfusion.

- Utilising good clinical practice the advanced nurse practitioner shall only prescribe blood products if it is to benefit the patient
- The decision to prescribe shall be based upon set clinical guidelines and the need of the patient. The reasons for giving blood products shall be clearly documented within the patient's medical records (if the patient has a problem later on that could be related to transfusion, the medical records will show who ordered the products and the reasoning why).

Situations where the Advanced Nurse Practitioner maybe required to prescribed blood and blood products.

Planned prescription requirement of blood

- Elective transfusion for patients with chronic anaemia or anaemia due to malignant disease.
- Pre-operative orthopaedic trauma.
- Patients undergoing large intra-abdominal surgery.
- Post operative anaemia

Emergency prescription requirement of blood

- Upper gastro-intestinal bleeding
- Lower gastro-intestinal bleeding
- Trauma
- Post operative bleeding
- Chest pain or Angina secondary to anaemia

Planned prescription requirement of blood products(FFP, Plts)

- anti-coagulation optimisation
- Prophylaxis prior to invasive procedures

Emergency prescription requirement of blood products (FFP, Plts)

- haemorrhaging patient

Appendix 1

Training scheme of work / curriculum to
Prepare the Advance Nurse Practitioners' to authorize blood components

Learner Group ANP's / trainee ANP's	Content / learning outcomes	Facilitator	Teaching strategies Resources	Assessment/evaluation of understanding
Session 1 Haemovigilance and SHOT reporting criteria	To ensure staff understand their personal responsibilities and legal obligations within the transfusion process. Discussing; <ul style="list-style-type: none"> • SHOT & BSQR • Recognition of a potential transfusion reaction/event. Who, when, how and what should be considered as a reportable event/incident		PowerPoint presentation Informal classroom/meeting presentation in small groups Resources Laptop & safe stick Summery hand outs Copies of past SHOT reports	Informal, objective and continuous evaluation throughout the session Formal assessments included in skills and knowledge assessments completed annually with medical lead
Session 2. Roles and responsibilities	To ensure staff understand their personal responsibilities and comply fully within their role boundaries. Ensuring the best and safest provision of donor blood components to our patients. Emphasising on;		Informal classroom/meeting presentation in small groups Resources Laptop & safe stick Summery hand outs Examples of poor prescribing	Informal, objective and continuous evaluation throughout the session Formal assessments included in skills and knowledge assessments completed annually with medical lead

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Author: The Advance Nurse Practitioners and Hospital Transfusion Practitioner

Implementation Date: Jan 2012

Review Date:

	<ul style="list-style-type: none"> • Patient assessment and clinical decision making • Treatment choice / when to escalate • Documentation • Sample labelling criteria <p>Prescribing</p>			
Session 3. Detection and care of patients with antibodies	<p>To ensure staff have a basic understand of the laboratory staff blood screening procedures;</p> <ul style="list-style-type: none"> • A&P of blood cells and antibody detection • Sample viabilities • Cross match options, manual, EI or emergency release <p>How to deal with a patient with known antibodies</p>		<p>Informal presentation and group discussion</p> <p>Resources flip chart PowerPoint presentation</p> <p>Visit to blood bank with a brief introduction to basic lab working practices</p>	<p>Questioning and continual evaluation of understanding throughout the session</p>
Session 4 Multi directorate case study presentations	<p>Two way demonstration of knowledge and experience.</p> <p>ANP's from both medical and surgical side to present a short case study DCL to give feed back and present a typical haematology patient</p>		<p>Informal presentation and group discussion of case studies from both surgical and medical perspective</p> <p>Resources Case study summery material and/or presentation slides</p>	<p>Continuous evaluation of knowledge, understanding and experiences throughout the session</p>

Knowledge and skill competency assessments to be completed with individual lead consultants annually as with all other ongoing skills assessment requirements for this staff role.

