

Supplement 2. Example of the first-round case form for item development

Representative Nursing Case 1-1 (Examination Question 1-2 link)					
Job	F3 (Transfusion nursing)	Area of learning objectives (category)		3. Cancer management	
		Area (division)		2) Anticancer therapy nursing	
Major area	Basic, adult nursing area	Nutrition /metabolism/excretion Nursing		Breast cancer	
Integrated nursing knowledge	Execution of appropriate tests and procedure for transfusion				
<p>A 45-year-old breast cancer patient visited an emergency room with stomatitis and fever as chief complaints on the seventh day after the administration of anti-cancer drugs started. The result of a CBC test was Hb 9 g/dL, Hct 18%, and platelets 5000/mm³. Therefore, 2 units of packed red blood cells were prescribed.</p> <p>Which are the appropriate general examinations that should be performed to confirm compatibility before blood transfusion?</p> <ol style="list-style-type: none"> 1) Cross-matching test, HBsAg Test 2) Antibody screening test, HIV test 3) ABO and Rh type, cross-matching test 4) ABO and Rh type, genetic testing 5) Antibody screening test, cold agglutinin test 					
Knowledge level of question	Memorizing type	Interpreting type	Problem-solving type	Answer	Level of difficulty
Knowledge level of question	√			3	Low
Basis	<ul style="list-style-type: none"> ·Blood compatibility test before transfusion ·It should be not confused with the pretest for a blood donor. ·Knowledge of transfusion procedures and blood test results, nursing according to transfusion guide 				
Reference	Kim et al., 2013, Korean Journal of Adult Nursing, 1062-1063, Sumunsa				