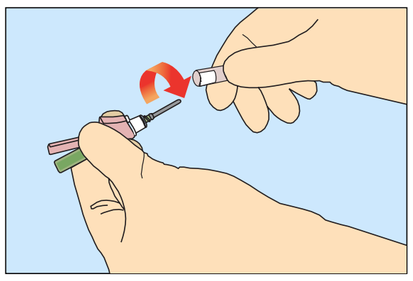
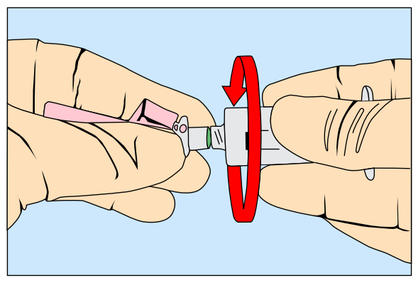
BD Diagnostics - Preanalytical Systems

Blood collection with BD Vacutainer® system

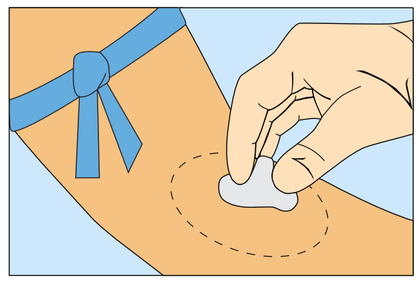
1. Patient Identification:
   - Greet the patient.
   - Identify Yourself.
   - Confirm the patient's information.



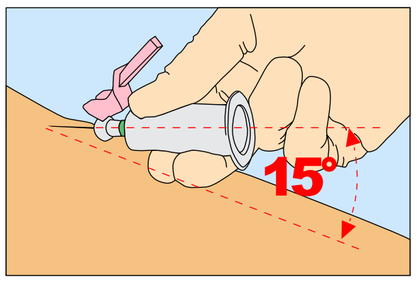
2. Visually check the sterility seal on the needle. If the seal is broken. DO NOT USE. If the seal is unbroken, twist to break and dispose of the white cover immediately.



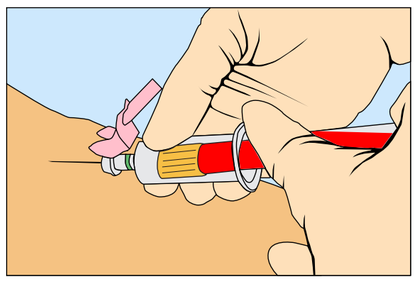
3. Screw BD Vacutainer® Eclipse™ Needle into a BD Vacutainer® One Use Holder. Flip the lavender safety shield back. Remove the coloured needle shield.



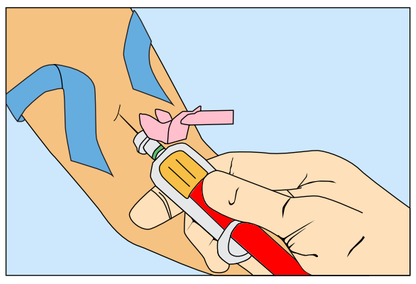
4. Apply Tourniquet 7.5 to 10 cm above site of the intended venepuncture. Disinfect the site. Allow to air dry.



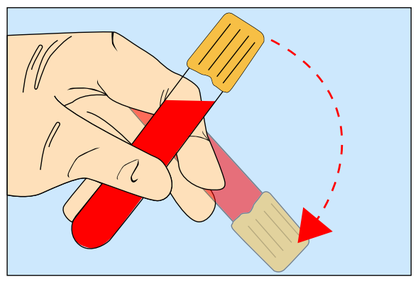
5. The bevel of the BD Vacutainer® Eclipse™ Needle is aligned with the safety shield. Perform venepuncture in the usual manner with the arm of the patient in the downward position.



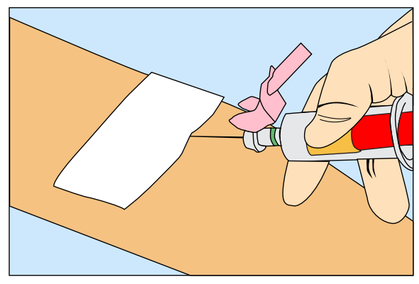
6. Introduce the BD Vacutainer® tube into the holder. Placing your forefinger and middle finger on the flange of the holder and the thumb on the bottom of the tube, push the tube to the end of the holder, puncturing the diaphragm of the stopper.



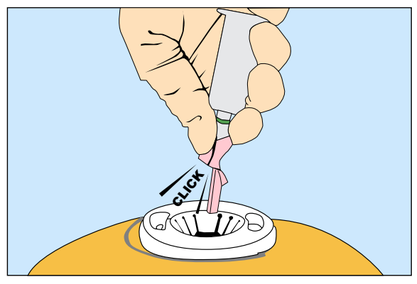
7. Remove the tourniquet as soon as blood begins to flow into the tube. The tourniquet should be applied for no longer than one minute before venepuncture is carried out.



8. Invert all tubes minimum 5 to 6 times, except citrate tubes (3 to 4 times) to ensure adequate mixing. Do not shake. Vigorous mixing may cause hemolysis.



9. As the needle is removed from the arm gently cover the punctured site with a gauze pad. Pressure on the site should be maintained for a few minutes to help seal the vein wall and prevent hematoma.



10. Activate the safety shield until an audible 'click' is heard. Dispose the needle and holder as a single unit into an approved sharps container.

BD Vacutainer® Order of Draw & Mixing Guidelines

All BD Vacutainer ® tubes require immediate mixing following collection

Colour Code	Tube Type	Determinations	Inversions
Blue  Purple	Blood Culture	Aerobic followed by anaerobic	8-10 Times
Light Blue 	Sodium Citrate	For coagulation determinations on plasma specimens	3-4 Times
Black 	ESR	For erythrocyte sedimentation rate (ESR) determinations	8-10 Times
Red 	Serum	For serum determinations in chemistry	5-6 Times
Gold 	SST™ II *Advance*	For serum determinations in chemistry - with gel seperator	5-6 Times
Orange 	RST	For serum determinations in chemistry - with Thrombin based clotting agent and gel separator	5-6 Times
Green 	Heparin	For plasma determinations in chemistry	8-10 Times
Light Green 	PST™ II	For plasma determinations in chemistry with gel separator	8-10 Times
Lavender 	EDTA	For whole blood hematology determinations	8-10 Times
Pink 	Cross Match	Crossmatch tubes for blood transfusion patients	8-10 Times
Grey 	NaF/NaEDTA	For glucose determinations	8-10 Times
Royal Blue 	Trace Element	For trace element, toxicology and nutrient determinations	8-10 Times

Insufficient mixing can result in inaccurate test results and the need to re-draw

REF: (CLSI H3-A6)

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