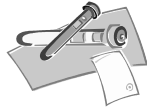


COMPLICATIONS IN BLOOD COLLECTION



FAILURE TO DRAW

- Needle too shallow
- Needle through vein
- Bevel against wall of vein
- Losing vacuum in tube
- Rolling veins



VASCULAR COMPLICATIONS...

- Hematoma
 - Signs: swelling, pain
 - Reasons:
 - needle completely through vein
 - bevel partially in vein
 - inadequate post-procedure pressure
 - Action:
 - remove tourniquet STAT
 - remove needle
 - apply pressure



VASCULAR COMPLICATIONS...

- Petechia
 - small, red spots on skin
 - coagulation abnormality
- Excessive bleeding
 - anticoagulant therapy
 - high dosages of anti-inflammatory medications
 - never leave patient until bleeding stopped or qualified person takes over
- Sclerosed veins
 - hardened veins due to disease, repeated punctures



VASCULAR COMPLICATIONS...

- Hemoconcentration
- Hemolysis
- Thrombosis



Red Blood Cell

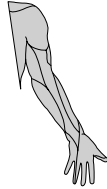
VASCULAR COMPLICATIONS

- Collapsed veins
 - needle misplacement
 - excessive vacuum
 - excessive force on syringe plunger
 - withdrawing too quickly with syringe
 - inappropriate needle selection
 - cannot always be corrected while still in the vein



NEUROLOGICAL COMPLICATIONS

- Syncope
- Seizure
- Nerve damage



BODY FLUID CONSIDERATIONS

- IV's
- Edema
- Mastectomy



OTHER CONSIDERATIONS...

- Burns / scars
- Reflux



SPECIMEN REJECTION

- Hemolyzed specimen
- Nonfasting specimen
- Anticoagulated specimen with clots
- Improper specimen transport
- Improper tube selection
- Quantity of specimen insufficient
- Requisition & tube label discrepancies
- Unlabelled tube
- Outdated equipment
- Contaminated specimen



SUMMARY

- Complications can occur in blood collection
- Know how to avoid complications if at all possible
- If complications are unavoidable decrease the negative impact of complications on:
 - the patient
 - the quality of the blood sample