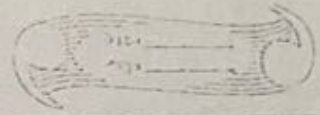


Chapter : 7



* clear tube :-

→ dead space of vacutainers may cause error in blood sample collection mainly in citrate bulb.

↓

Because remained citrate interfere in the clotting pathway.

↓

So to avoid this tube - clear tube is used.

sequence

Table : 7.2

why → For proper mixing

↓

inversion

Color	Content	Number of Inversions
1 st Yellow	culture	8 times
2 nd clear (discard)	sterile tube	0
3 rd Blue	No additive	3 to 4
4 th Red	citrate	5
5 th Red	heparin, NO additive	5

glass

↓
nothing

↓
Not require any additive

↓
glass tube itself activate extrinsic clotting pathway.

plastic

↓
silica

↓
without clot activator.

plastic/glass

↓
with silica/clot activator

(thrombin)

↓
if tube has no additive it has to contain silica.

- 5th Green → heparin → 8
- 6th Lavender → EDTA
- 7th Gray → Fluoride

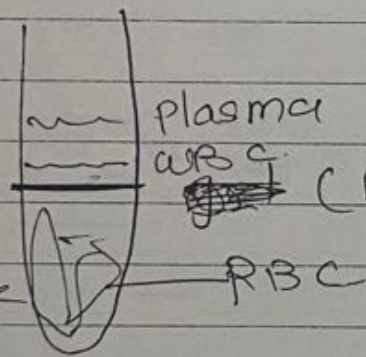
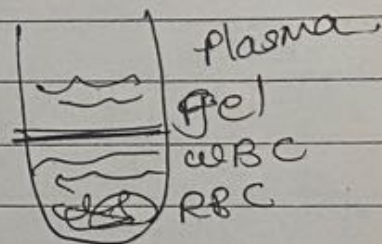
* Thixotropic :-

density

ex:- if plasma → 1.05
 gel → 1.05
 RBC → 1.1

Ex:- ficoll :-

In gel



which should not be water soluble

(Ficoll) → can not be use in laboratory

↓
 ଧୂଳି ଚାଲି ଶୁଣି ଚାଲି

if High pressure on that → solid / thick compound become less viscous / liquid formation

↓
 so it becomes between plasma & RBC

→ due to venous occlusion → all compound related to protein increased due to regional hemoconcentration

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⑥

Pumping or fist ~~dist~~ before venipuncture

↓
causes ~~to~~ muscle activity

↓
anoxia

↓
cause ↑ lactate concentration

↑ K^+

↑ PO_4^{2-}

X | Urine cell contains ?



↓ (Transfer. ~~st~~)
Then One Vacutainer is these which attached to the the container & then vacutainers are filled. from & test are done.

→ Urine can be directly collected from Foley's catheter by lens-lock ~~test~~ adaptor.

→ Size of label, content of label & position on label & barcode have specific guideline