



## Case Study

### Nitroglycerine study

(Tmax: 6–7 minutes)

Extensive Planning and coordination with different dept for Manpower and Infrastructure.

Challenges	Planning and Execution
Sublingual administration of IP with observation up to 10 minutes to ensure proper dosing.	Dedicated doser and supervisor for each subject.
Every minute blood sample collections till peak level of Cmax (10-15 minutes).	Dedicated phlebotomist for each subject with standby phlebotomist.
Centrifugation within 2 minutes of sample collection	Dedicated centrifuge machines for each time point arranged near to collection area with standby.
Plasma samples to be immediately shock frozen in a Ethanol/dry ice bath $-75^{\circ}\text{C} \pm 15^{\circ}\text{C}$	Arrangement of racks containing dry ice / Ethanol with attached data logger for continuous temperature monitoring at the sample separation site.
Specially treated glass tubes for plasma and overseas shipment	Procured from Bioanalytical facility and shipped in specially designed Armcool boxes and wrapped to avoid breakage.