

# **WBMT Graft Processing Workshop**

Dr Mickey Koh

St George's Hospital, London, UK

Health Sciences Authority, Singapore

# Graft Processing

- Integral part of the transplant programme
- Specialised manpower and equipment
- Minimal to extensive processing
- Stem cell sources: BM vs PBSC vs Cord
- Essential parameter in determining engraftment; graft versus host disease; immune reconstitution; relapse

# Main functions:

- Overseeing the safe receipt/handling of donor stem cells
- Defining the product: its quality and characteristics.
- any manipulation required for the transplant
- Safe delivery back to the hospital/patient including infectious diseases
- quality assurance

# Practical considerations

- Does every transplant programme require a processing lab?
- **Number of centres; transplant numbers distances;**
- Resources: Availability of skills and manpower
- Cost: reagents/equipment/manpower vs revenue
- Hospital based vs involvement of the Transfusion Service
- Examples of processing labs in the UK and Singapore

# Outline of workshop sessions

- Teshima(5 min): overview processing in Japan
- Taylor (20): Product characteristics; stem cell enumeration
- Padley (20): Storage/Traceability/Transport
- MK Tan (15): manpower/equipment/training
- Madrigal (15) : cord blood banking and processing
- Wall (10): intro to advanced graft processing
- Srini (20): regulatory framework