

"Minimal requirements of an effective HCT program"



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**Stem Cell Transplantation is
the only curative therapy for
a number of malignant and
non-malignant diseases**

**Children...first indication
VHR ALL in 1CR and 2CR**

General Goals

- **Increase life expectancy in children with malignant and non-malignant diseases**
- **Increase availability of HSCT by time**
- **To decrease the morbidity and mortality of HSCT despite increasing complexity**

Before starting a HSCT program (PINDA-HLCM) How?

- **Goals and objectives**
- **“Minimal Infrastructure”**
- **“Institutional Facilities”**
“on site or not”

What is “Minimal Infrastructure”?

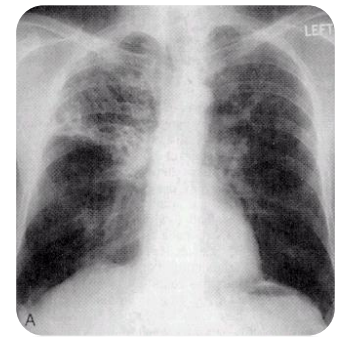
- **In patient ward with positive pressure and HEPA filtration**
- **A clinic ward that allows isolation and infections prevention: inpatient and outpatient**



- **HLA typing**
- **Stem cell collection INCLUDING Aphaeresis unit**
- **A stem cell processing laboratory**

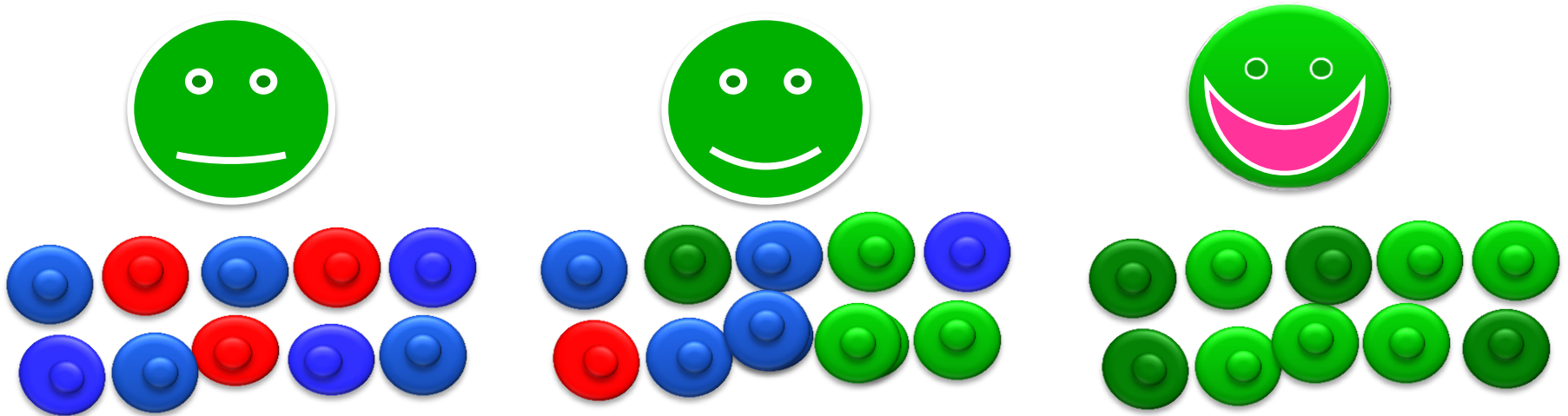
What is “Institutional Facilities” ?

- 24 hrs blood bank services (blood and platelet availability, filtrated and irradiated)
- Pharmacy 24 hrs available with access to all chemotherapy and others
- Other specialties such as
 - PICU
 - Dermatology
 - Gastroenterology
 - Pulmonary
 - Cardiology
 - Nephrology capable of Dialysis



On site or not facilities

- **HLA laboratory**
(Local/National/International accredited)
- **Chimerism**
- **Radiation**



Multidisciplinary Team

- **Trained transplant Physicians**
- **HSCT trained Nurses**
- **HSCT Coordinator**
- **Data Manager**
- **Research Nurse**
- **HSCT Lab director**
- **Medical Technologist**
- **Nutritionists**
- **Clinical Pharmacy**



- **Social Workers**
- **Clinical Psychologist**

Regulations and Accreditations

When a country is performing HSCT, it should be able to meet international criteria such as **NMDP, FACT, JACIE**

Why ?

- 1. Share donors**
- 2. To use international donor**
- 3. To have access to Umbilical cord blood banks**
- 4. To be able to publish results**



¿Accreditation?



Clinical



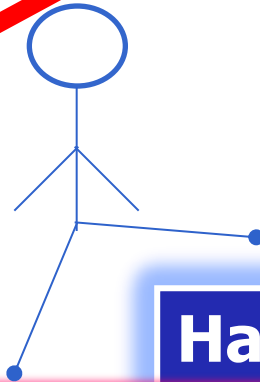
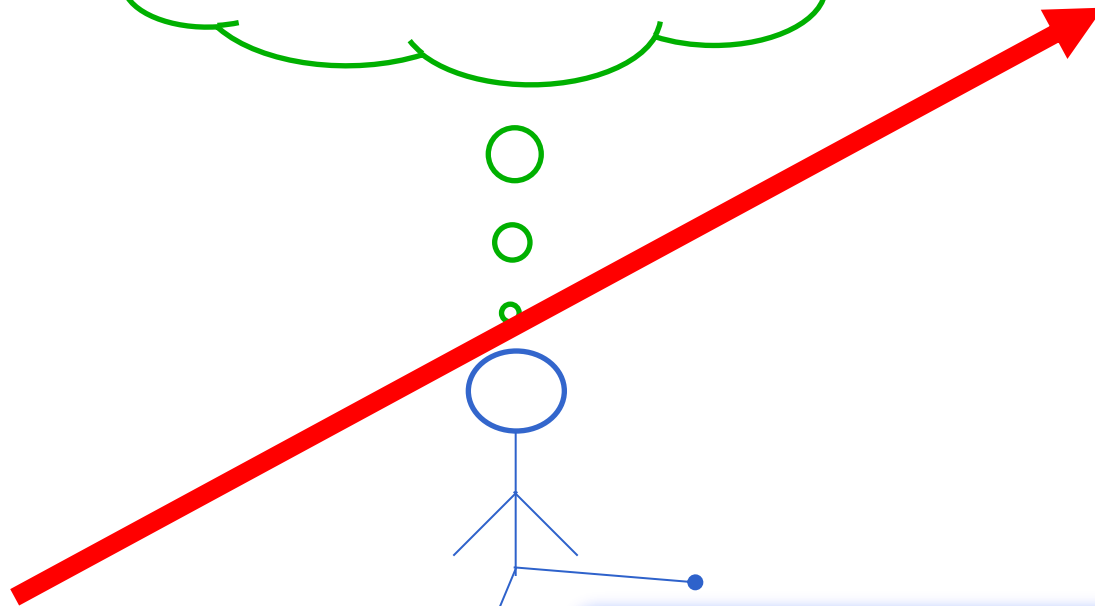
Cell collection

Cell Processing

Ask yourself:

- **Is my transplant center ready to do quality HSCT? All types?**
- **Do I have the appropriate infrastructure?**
- **Do We have the right staff?**
- **Can we meet the international regulatory agencies requirements?**

Quality



Haplo

UCB

UD BM

MSD and MFD (A-HSCT)

Ask yourself about children's rights in your center



Friendly health care attention model

