Ethical Issues in Pediatric BMT as Demonstrated by Two Unique Case Studies

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Disclosure

• I have nothing to disclose
Objectives

- Review the Ethical Principles of Medicine
- Case #1: substance abuse and transplant
- Case #2: eating disorder and transplant
Ethics

• “Ethics is knowing the difference between what you have a right to do and what is right to do” — Potter Stewart
Ethics Principles

• 1. Respect for autonomy
• 2. Beneficence
• 3. Nonmaleficence
• 4. Justice
Respect for autonomy

• Definition:

• All patients have the right to decide which interventions they will accept and which interventions they will refuse.
Beneficence

• Definition:
• Act for the good of the patient.
Nonmaleficence

• Definition:
  • To do no harm.
Justice

• Definition:
• Greatest good for all people.
Pediatric BMT

• MANY Ethical issues
Case #1: SC

- 20 year old female with Severe Acquired Aplastic Anemia
- Diagnosed initially with ITP in 2015, progressed to pancytopenia
- January 2017 BM revealed hypocellular marrow
- Initially began ATG (equine) and Cyclosporine
- Poor adherence to CSA per patient report
- No biologic siblings
- NMDP search
- Haploidentical Transplantation (mother)
Case #1: SC

• HIGH RISK TRANSPLANT
• History of drug use, cigarette smoking, mood disorder, medication non-compliance and inconsistent home support
Case #1: SC

• Ethical principles:
Case #1: SC

- Transplant: ATG, Fludarabine, Cyclophosphamide, thiotepa and Id TBI
- GHVD/risk for graft rejection: Tac, MMF, post transplant Cyclophosphamide
Case #2: SC

• Outcome/Post transplant
Case #2: MS

• 18 year old female with monosomy 7 MDS and a GATA2 germline mutation
• Long-standing leukopenia and thrombocytopenia dating back to at least 2010
• While inpatient at OSH for eating disorder, Hematology consult with Bone Marrow showed Dec 2017- confirmed MDS
• Paternal Haploidentical PSCT with TCR alpha/beta Tcell and CD19+ B cell depletion
Case #2: MS

• HIGH RISK TRANSPLANT

• History of eating disorder dating back to 14 years of age
  • At one point, she reached a low of 72 lbs.
Case #2: MS

• Ethical Principles
Case #2: MS

- Transplant: Busulfan, Fludarabine, ATG and Cyclophosphamide
- GVHD/risk for graft rejection
Case #2: MS

• Outcome/ Post Transplant
Questions/Comments?

• Thank you!
Resources
