

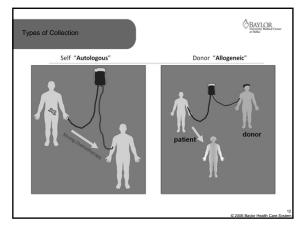
Blood and Marrow Transplantation Types of Transplants



- Autologous
- Uses patients own cells, stored prior to high dose therapy.

 Allogeneic Related
 - Family donor, usually sibling.
- Allogeneic Matched Unrelated
- National Marrow Donor Program currently over 10.5 million volunteer donors in registry.

Cord Blood





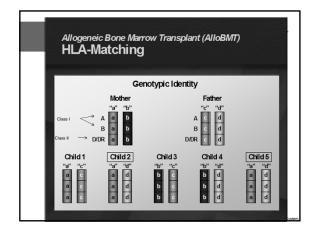
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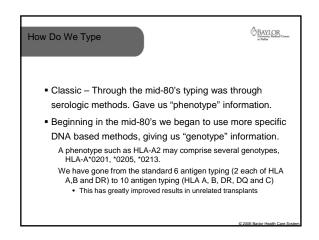
- Patient receives cells from a donor other than themselves.
 Identical twin (syngeneic) Matched sibling Matched unrelated donor
 - Less than full match (family or unrelated)
 - Haplo-match Cord blood
- Number of transplants continues to rise.
- For several diseases it remains the only curative option.

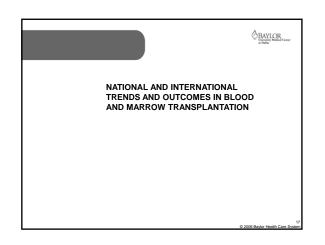
How Do We Choose a Donor

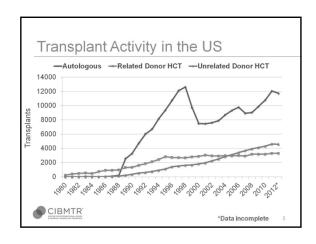
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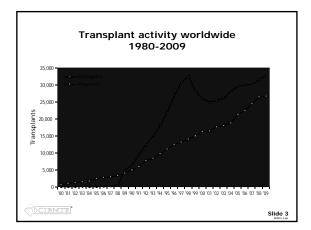
- In the early days of BMT almost all patients with a donor other than an identical twin had a severe and usually fatal complication called "secondary syndrome" marked by severe skin, gut and liver toxicity.
- It wasn't until the mid to late 1960's that an understanding of the Human Leukocyte Antigen (HLA) complex allowed us to select donors, and decrease the chances and severity of GVHD.

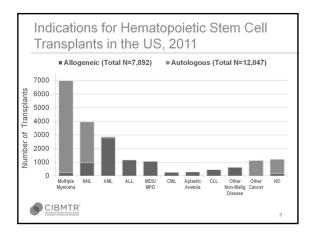


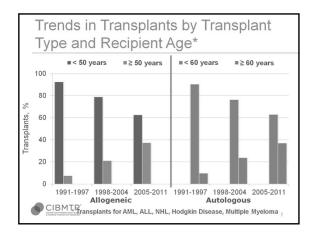


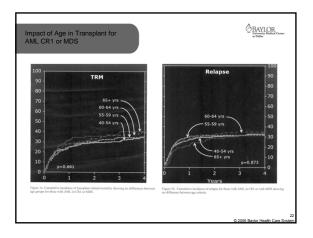


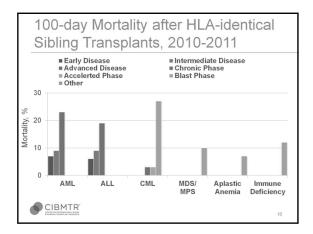


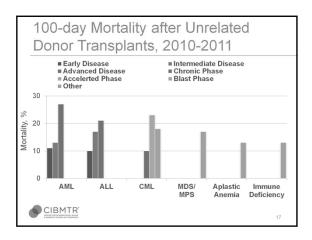












Rationale for Non-myeloablative

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- Graft v. Malignancy plays a major role in the curative benefits of allogeneic transplant.
- The combined toxicity of the preparative regimen and GVHD contribute to the overall morbidity and mortality of allogeneic transplantation.
- Attempts to decrease toxicity by decreasing GVHD have resulted in increased relapse.
- Less intense preparative regimens may decrease overall toxicity while allowing engraftment.

