

Patient Group	5 yr OS% 2000-05	5 yr OS% 2006-09	P Value
B-ALL	91.1 +/- 0.4% (n=6617)	92.2 +/- 0.5% (n=6078)	0.057
NCI HR	84.5 +/- 0.9%	85.0 +/- 1.2%	0.968
B-ALL	(n=1911)	(n=1946)	
NCI SR	95.2 +/- 0.3%	96.1 +/- 0.4%	0.037
B-ALL	(n=4546)	(n=4087)	

## Survival Improvements Over 20 Years: T-ALL vs B-ALL

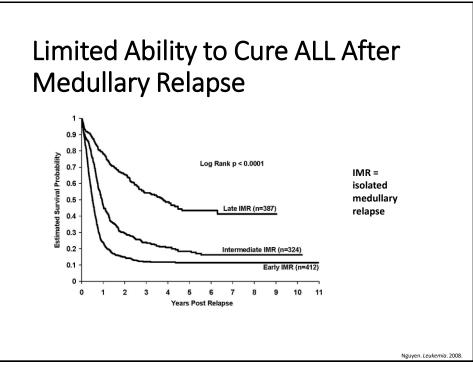
Patient Group	5 yr OS% 1990-94	5 yr OS% 2006-09
B-ALL	84.9 +/- 0.5 (n=5068)	92.2 +/- 0.5% (n=6078)
T-ALL	70.7 +/- 1.7% (n=748)	90.6 +/- 2.7% (n=449)

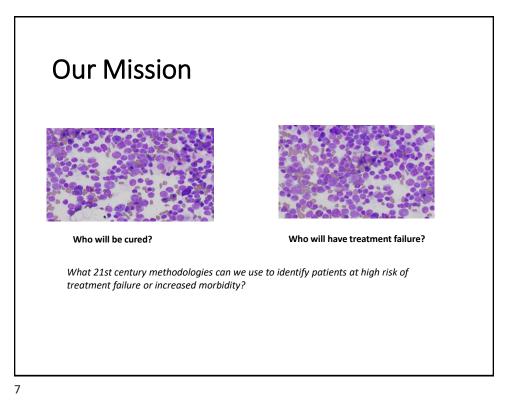
• OS difference for T-ALL vs B-ALL was 14.2% in 1990-94 and 1.6% in 2006-09

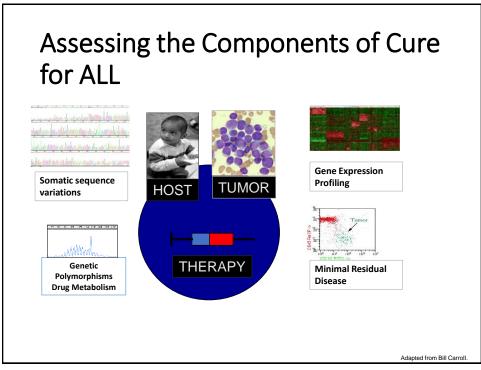
Improved survival for T-ALL likely helps to explain the improved survival for African Americans over past 20 years

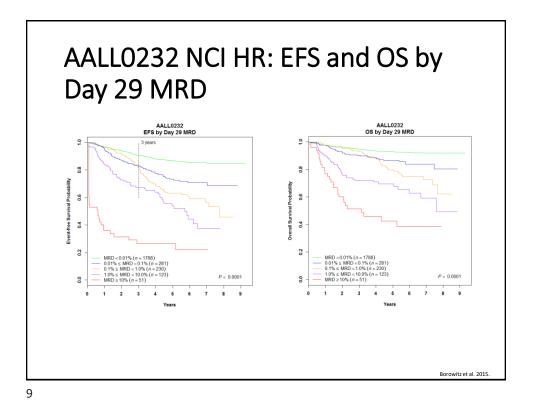
Hunger et al. JCO. 2012; SIOP. 2013.

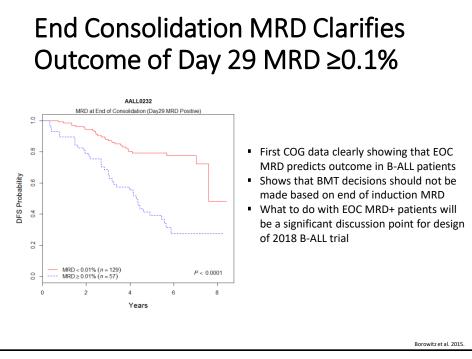


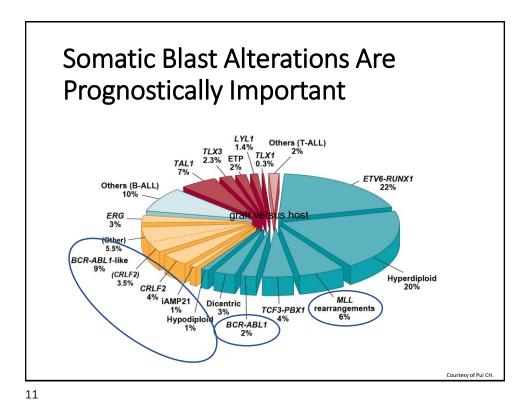


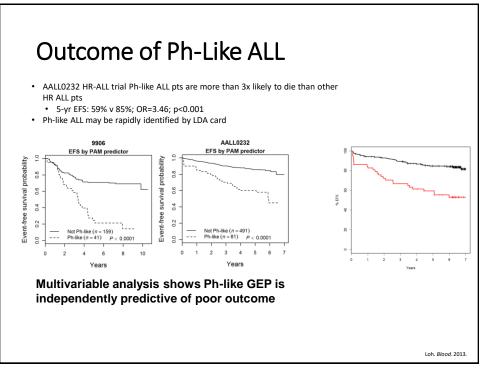


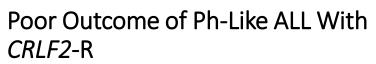


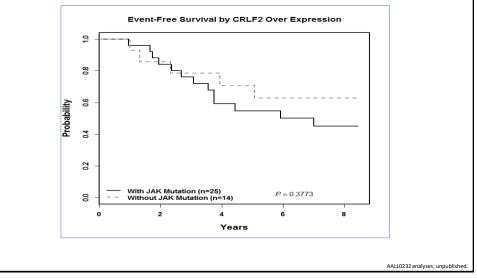


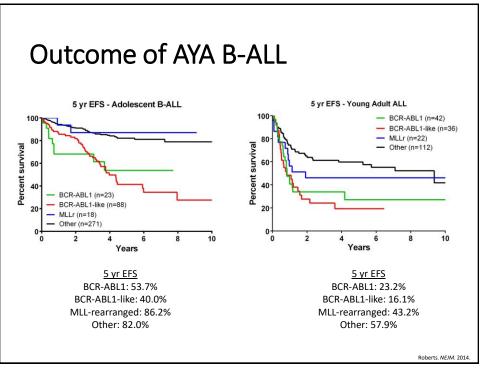


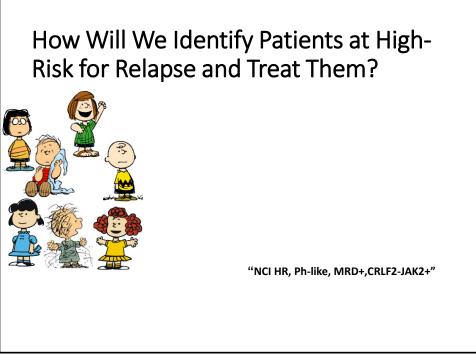


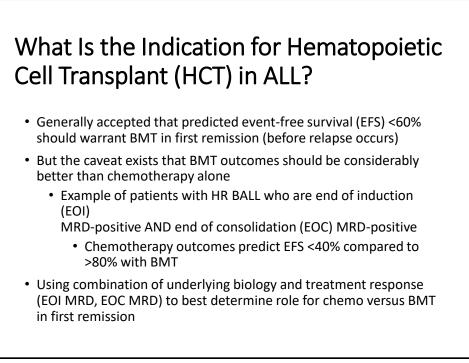






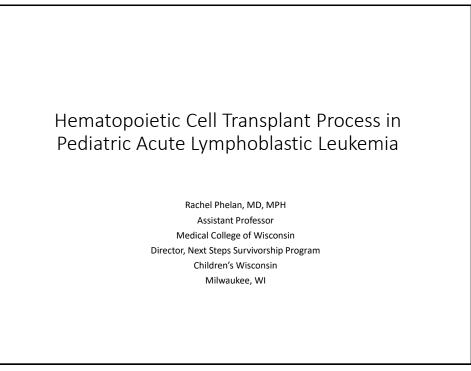


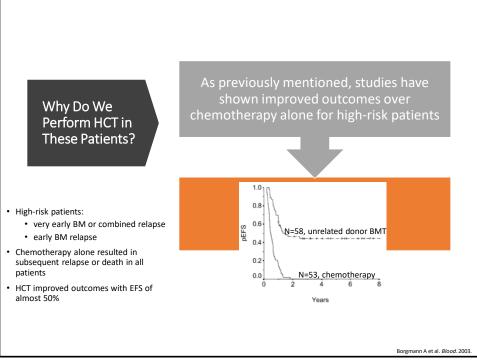


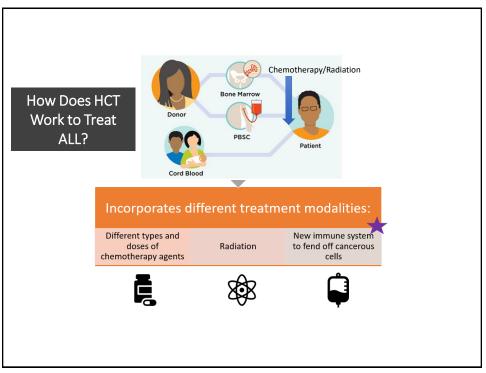


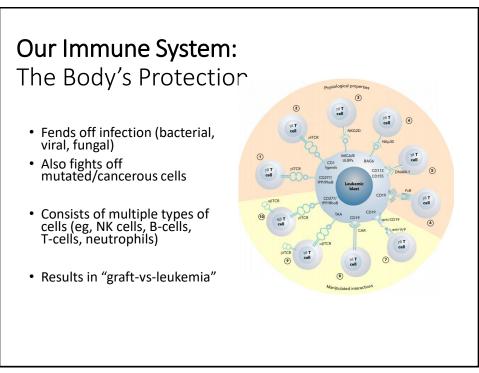
## What Is the Indication for BMT in ALL?

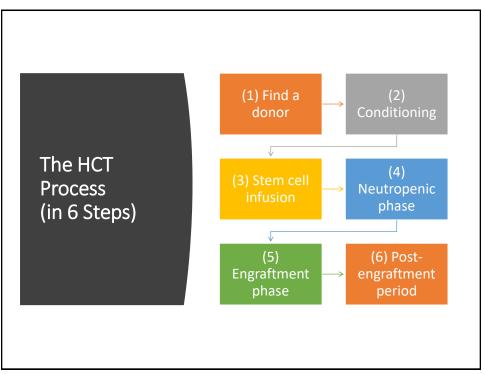
- Any first relapse within 3 years from the diagnosis of ALL is an indication for BMT
- Any first relapse after 3 years from diagnosis of ALL where the MRD is >0.1% after re-induction chemotherapy is an indication for BMT
- Any relapse of TALL, Philadelphia chromosome– positive ALL or infant ALL is an indication for BMT

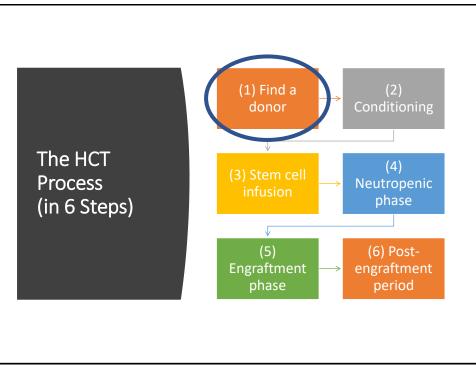


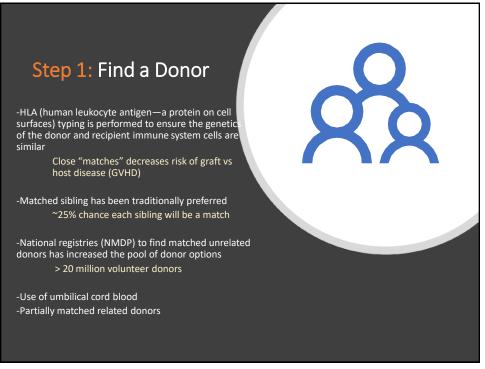


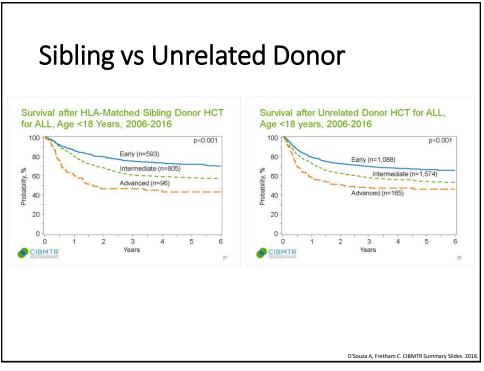


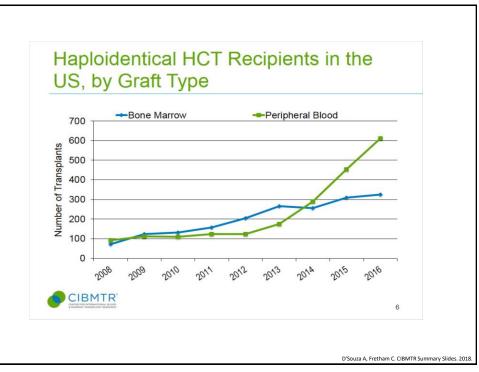


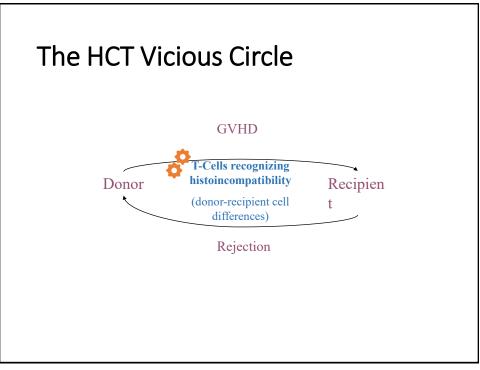


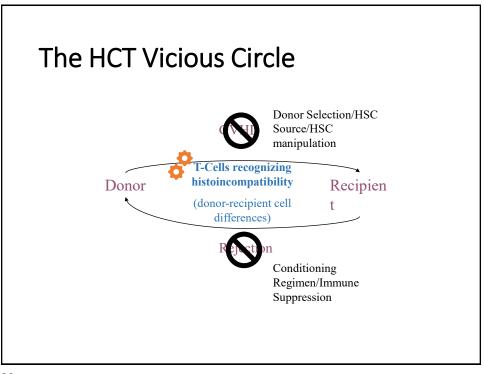


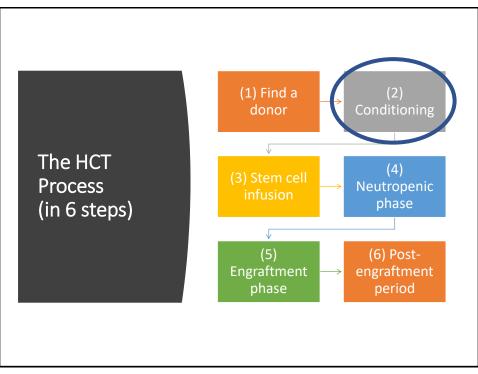


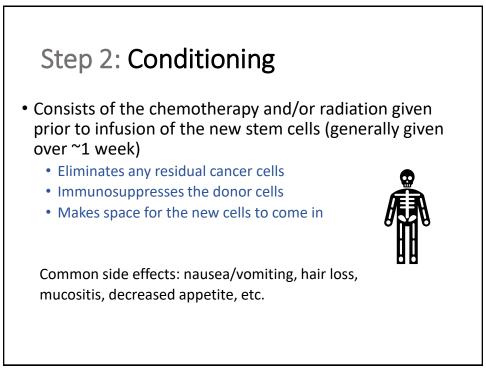


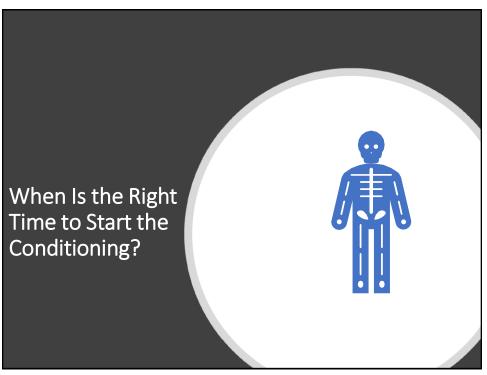


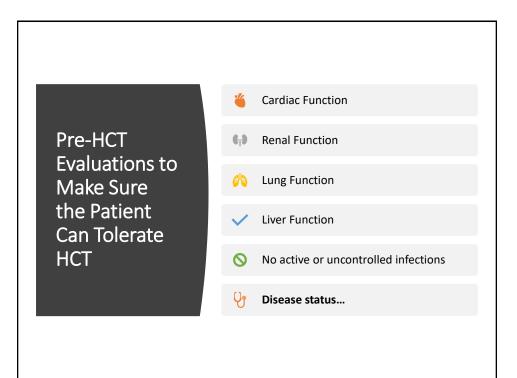


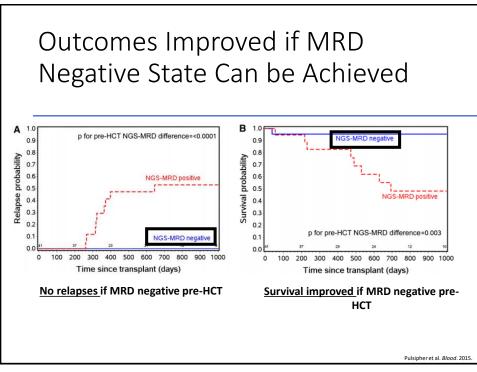


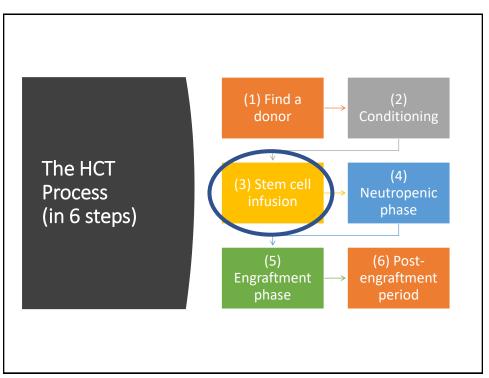


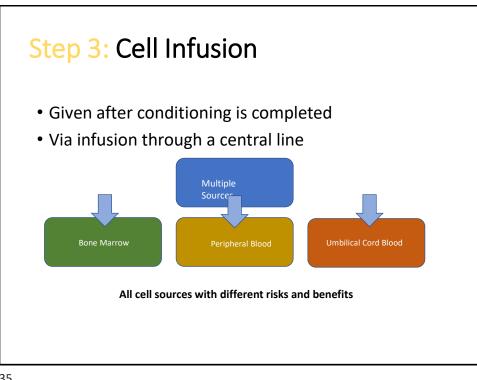




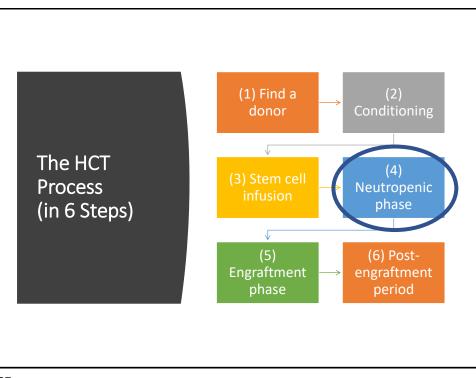


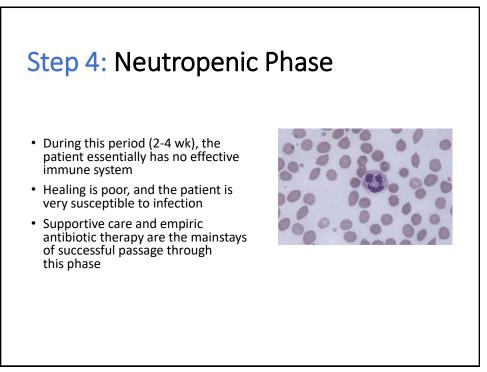


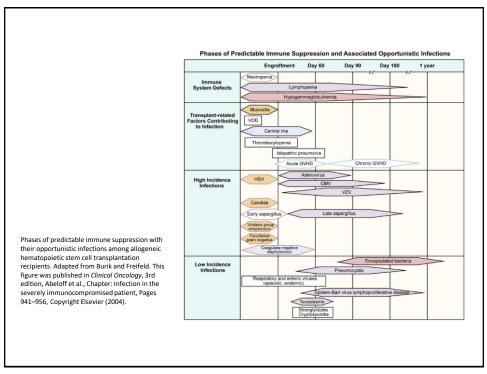


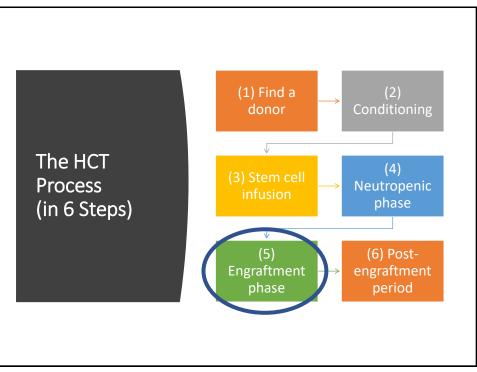














- During this period (several weeks), the healing process begins
  - Resolution of mucositis and other lesions acquired
  - Fever begins to subside and infections often begin to clear
  - The greatest challenges at this time are management of GVHD and prevention of viral infections (especially CMV)

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