BMT is currently used predominantly in the treatment of some haematopoietic malignancies with variable efficacy.

now



There are systemic obstacles that prevent widespread adoption of BMT.

BMT has the potential to cure a diverse variety of diseases.

the future



BMT is currently used predominantly in the treatment of some haematopoietic malignancies.

Annual cases (2006)

AML	2581
ALL	1239
MDS	929
Non-Hodgkin Lymphoma	826
Non-malignant conditions	619
CML	516
Other Leukaemias	516
Aplastic Anaemia	310
Multiple myeloma	310
Hodgkin Lymphoma	103
Other malignancies	52
TOTAL	8000

Allogeneic cases only. Autologous cases are not included.



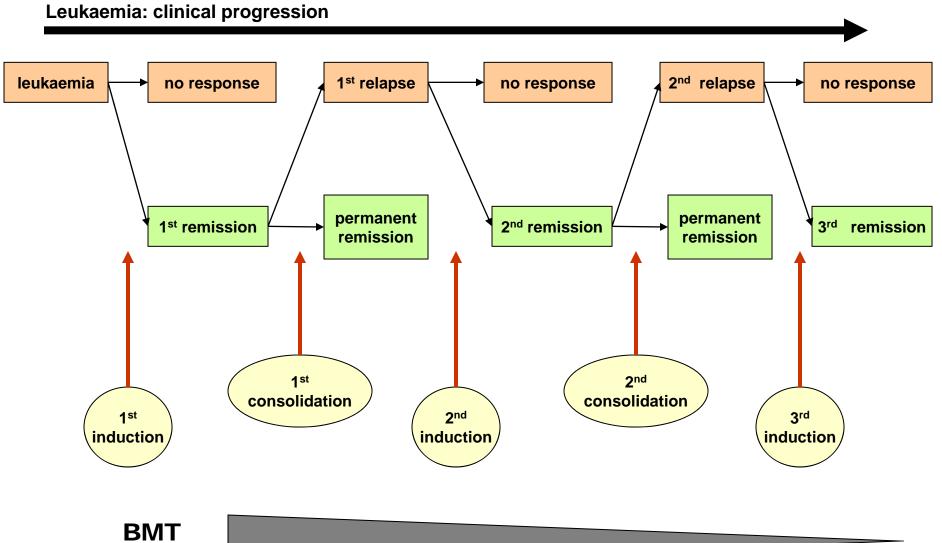
There are systemic obstacles that prevent widespread adoption of BMT.

- poor representation of minorities in donor registries
- poor quality typing
- convoluted administrative practices in donor registries increase the turn-around time

BMT has the potential to cure a diverse variety of diseases.

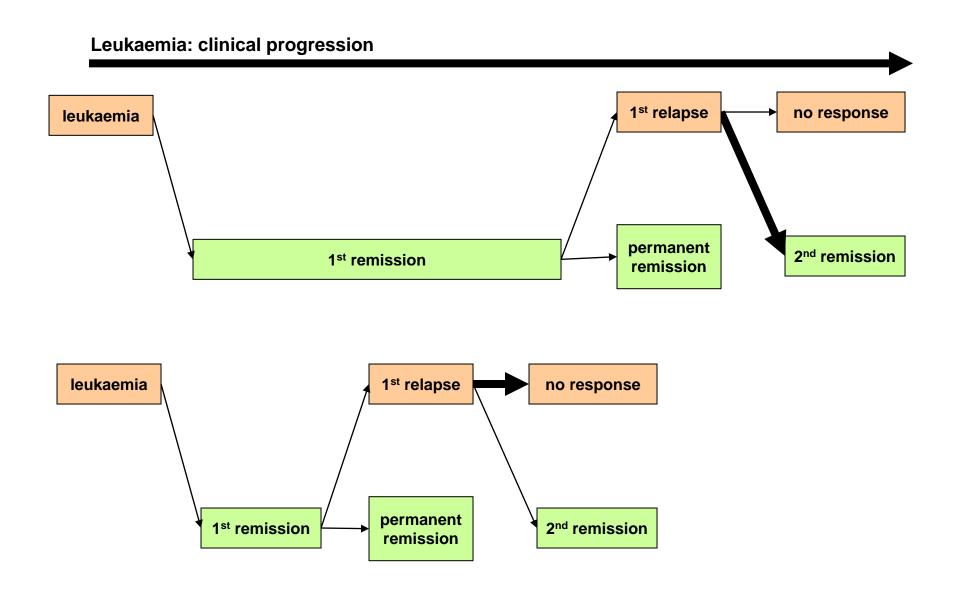
- Take advantage of efficient BMT donor registries with representation of the main phenotypes in each ethnic group.
- Create protocols for mismatching.
- Use multiple transplants for multiple purposes.
- Apply the principles and techniques of BMT for other clinical conditions.

The effectiveness of BMT decreases with the stage in clinical progression

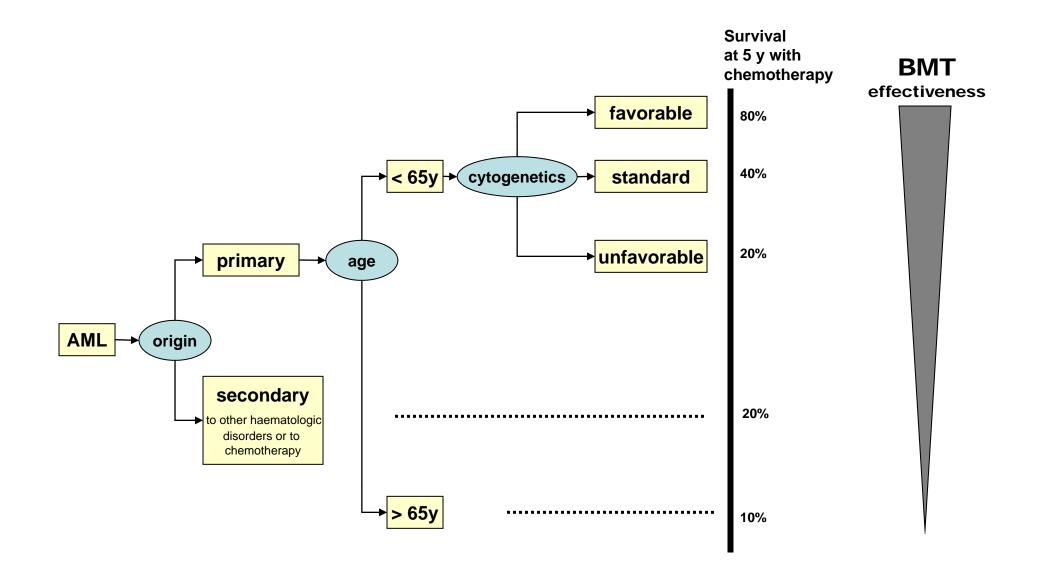


effectiveness

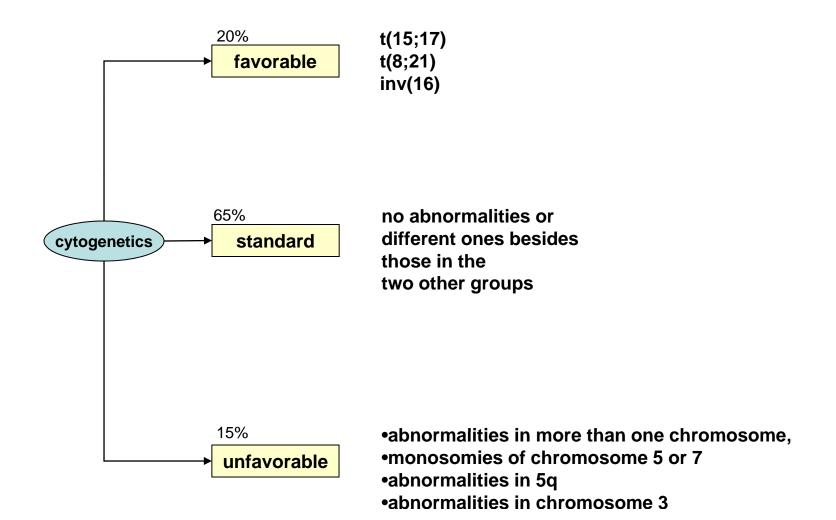
How long it takes a patient to go into relapse determines the likelihood of a second remission



AML: The effectiveness of BMT decreases with the clinical prognosis



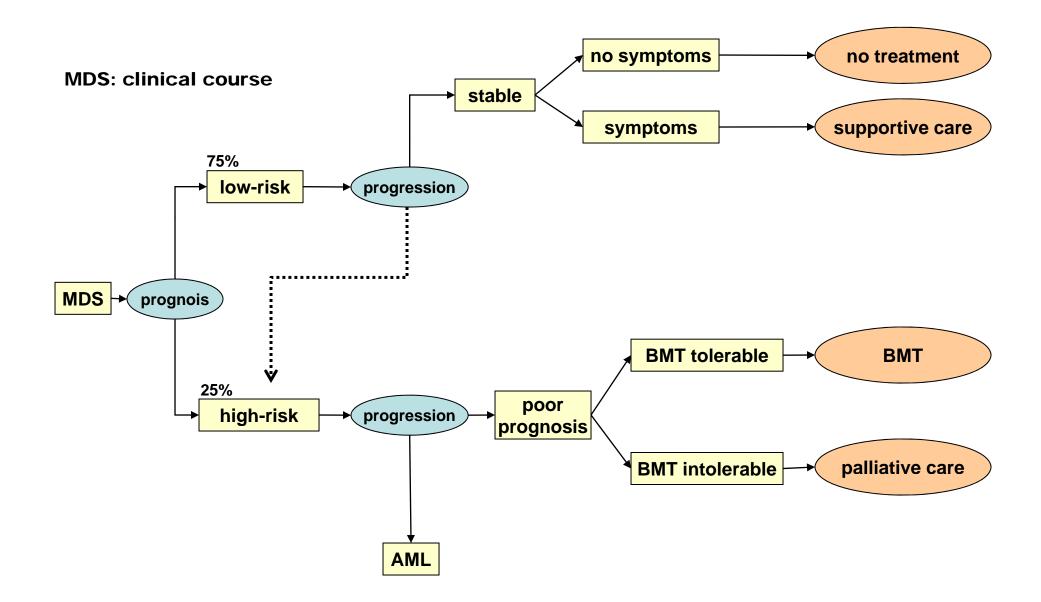
AML: clinical prognosis based on cytogenetics analysis



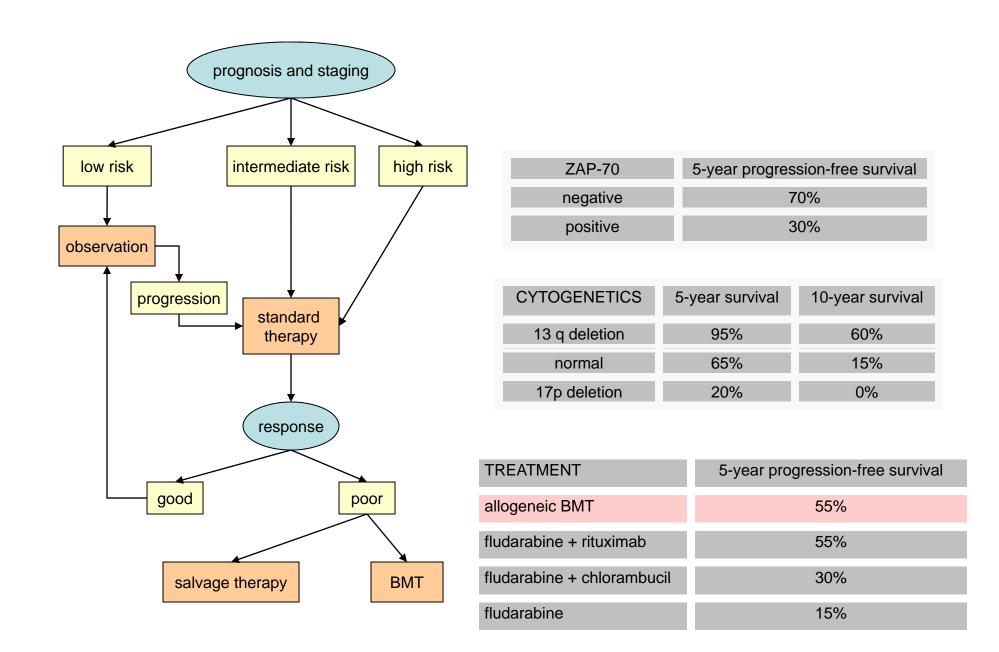
ALL: BMT treatment

Children ALL- Philadelphia chromosome positive	TREATMENT	5-year progression	on-free survival
	BMT: HLA-id. sib.	359	%
	chemotherapy	189	%
BMT - HLA-identical sibling	DISEASE STAGE	5-year progression	on-free survival
	first complete remission	559	%
	beyond first remission	279	%
BMT - HLA-identical sibling 5-year survival and prognosis and age	PROGNOSIS	20 y. or less	more than 20 y.
	early	55%	40%
	intermediate	50%	30%
	advanced	25%	18%
BMT: 3-year survival in adult ALL and HLA matching	PROGNOSIS	HLA-ident. Sib.	MUD [matching?]
	early	60%	48%
	intermediate	52%	39%
	advanced	29%	17%

MDS: BMT is the only curative treatment

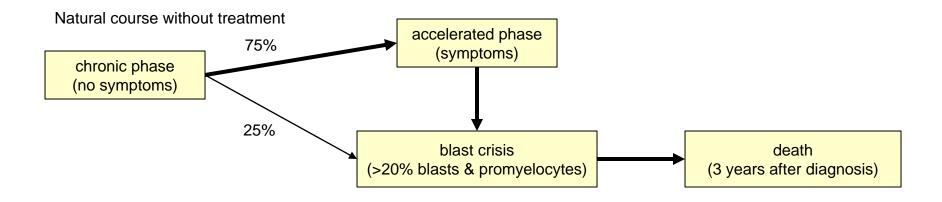


CLL: a disease of the elderly (90% over 55 y.) with long-term clinical course



CML: cured with imatinib (Gleevec / Glivec) or with BMT

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	haematologic remission	cytogenetic ressponse
IFN-alpha	75%	25%
Imitanib	98%	92%

BMT (2-haplotype-matched siblings)

	5-year survival
chronic phase	85%
accelerated phase	15%
blast crisis	10%

Severe aplastic anaemia	80% cure rate
Congenital immunodeficiencies	90% cure rate
Thalassaemia major	80% cure rate
Sickle-cell disease	90% cure rate
Multiple sclerosis	74% survival without disease progression
Systemic lupus erythematosus (treatment refractory)	84% 5-year survival 50% disease free at 5 years