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Freatment phase	Characteristics of pediatric-based therapy (versus adult standard therapy)	Annotations		<b>Ann</b>
Chemotherapy (induction, consolidation, maintenance)	Corticosteroids: higher cumulative dose	Dexamethasone preferred (higher activity); Higher penetration into CNS; Toxicity: ostenoercosis lage-related), other [metabolism, hypertension, peptic ulcer, infections [fungal]]		
	Vincristine: higher injection no. and cumulative dose	Risk of neuropathy (higher doses)	Toxicities in the AYA Population	
	Asparaginase/Peg-ASP: higher cumulative dose	Peg-ASP recommended/preferred (minimum 4 injections); Careful association with other potentially hepatotoxic drugs; Toxicity (risk factors: age >45, liver steatosis, BMI >30): hepatic, metabolic, pancreatic coagulation/ thrombosis, allergy		
	Antimetabolites: more intensive use and higher cumulative dose of MTX, 6-thiopurines, cytarabine	Higher MTX dose recommended/preferred [>1.5 g/m², up to 3–5 g/m²]		
	Anthracyclines: less intensive use	Lower risk of myelotoxicity and cardiomyopathy		
CNS prophylaxis	IT chemotherapy: intensified, higher injection no.	Single agent IT MTX, cytarabine or triple IT combination (MTX, cytarabine, corticosteroids)		
	Cranial prophylaxis: omitted or in high-risk subsets only	Higher activity of systemic CNS-active therapy and IT prophylaxis; Better treatment compliance, lower risk of short- and long-term brain damage; Radiation-related risk of secondary brain neoplasms		
Freatment intensity/ adherence	Aim: higher overall intensity without undue dose reductions and treatment delay	Dedicated, well-trained staff (medical and nonmedical); Compliance to intensive chemotherapy		
Allogeneic HCT	First CR: according to MRD/risk-based strategy	More frequently used in AYA/adults (>15-18 years) compared with children		
	Salvage: standard procedure in second/ later CR	-		
LL, acute lymphoblastic leuk emission; HCT, hematopoieti	temia; AYA, adolescents and young adults; BMI, body to c cell transplantation; IT, intrathecal; MRD, minimal r	mass index; CNS, central nervous system; CR, complete residual disease; MTX, methotrexate; Peg-ASP, pegylated		

























































