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Retrospective review of children with osteogenic sarcoma from 1990 to 2010 at a tertiary hospital in Johannesburg

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TABLE 4. Risk factor analysis of children and adolescents with osteogenic sarcoma at CMJAH

Variables	5 year overall survival (%)	Hazard ratio	95% CI Lower	95% CI Upper	*p* value Logrank
Sex					
Male	34.8	Ref			0.265
Female	25.5	1.411	0.736	2.706	
Ethnicity					
African	29.9	Ref			0.423
Other	30.5	0.737	0.358	1.521	
Body mass index (BMI)					
BMI<18	24.3	1.793	0.858	3.746	0.165
BMI>18	40.9	Ref			
Site of Tumour					
Axial	44.4	2.032	0.842	4.908	0.044
Appendicular	30.5	Ref			
Duration of symptoms					
< Median	22.2	Ref	0.350	1.749	0.499
>Median	32.9	0.783			
Histological subtype					
Osteoblastic	30.3	1.077	0.452	2.567	0.749
Chondroblastic	37.5	Ref			
Telangiectatic	30	0.986	0.260	3.746	
Stage of tumour					
Localised	61.0	Ref			**0.0001**
Metastatic	41.0	3.879	1.971	7.633	
Site of metastases					
Pleuropulmonary	6.7	Ref			0.762
Skeletal	0	1.102	0.401	3.033	
Combination	0	0.759	0.179	3.214	
Size of primary tumour					
< 8 cm	15.6	1.209	0.475	3.077	0.655
> 8 cm	32.6	Ref			
Alkaline phosphatase					
Normal	N/A	N/A	N/A	N/A	N/A
Elevated	30.3				
Lactate dehydrogenase					
Normal	75.0	Ref			
Elevated	29.9	2.855	0.631	12.914	**0.011**
Unknown	0	10.329	1.727	61.789	
Response to chemotherapy					
>95% necrosis	52.0	Ref			0.440
<95% necrosis	23.6	1.361	0.598	3.098	

Ref denotes the reference value against which other values were compared. CI: confidence interval.