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From Variability to Consistency: Improving Hypospadias Surgery Outcomes via Protocols in a Rural Kenyan Setting

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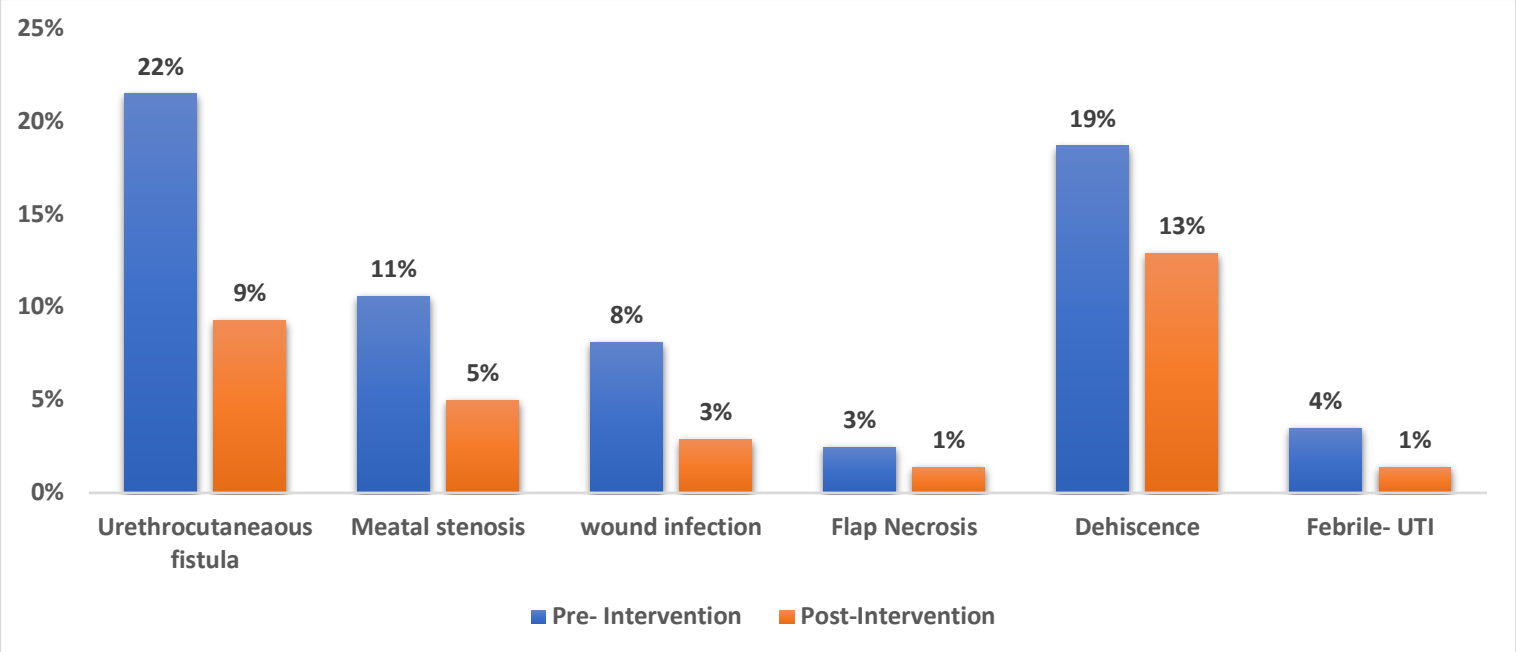
Introduction: Hypospadias surgery has a complication rate ranging from 5-60% reported. To reduce complications, a standardised protocol was developed and implemented in 2021 in the study institution.

Protocol: Pre-operative, intra- operative and post-operative components implemented.

Result: Mean age in years was 3.70±3.95 [0.3 – 23.9yrs], P=0.02.

Variables	Pre-protocol (n=284,47.6%)	Post-protocol (n=313,52.4%)	Total (n=597, %)	P-value
Proximal	179(52)	165(47.9)	344(59.4)	<0.001
Distal	105(41.8)	146(58.1)	251(40.6)	0.06
Day case	3(1.1)	226(72.2)	229(38.4)	<0.01
Admission	281(98.9)	87(27.8)	368(61.6)	<0.01
Length of admission, Mean	5.49±2.94	0.89±1.76	3.06±3.31	<0.001
Hospitalization cost(USD)	165±106	80±91	(54,116)	<0.001
Complication	151(53.2)	94(29.9)	254(41)	<0.01

Overall complication rates dropped from 53.2 % in the pre- protocol to 29.9 % post-protocol (p<0.001) value). The cost of hospitalisation dropped by 50% p<0.00.



Conclusion: The use of a standardised protocol in hypospadias care significantly reduced the post operative complication rate and the cost of hospitalization.