

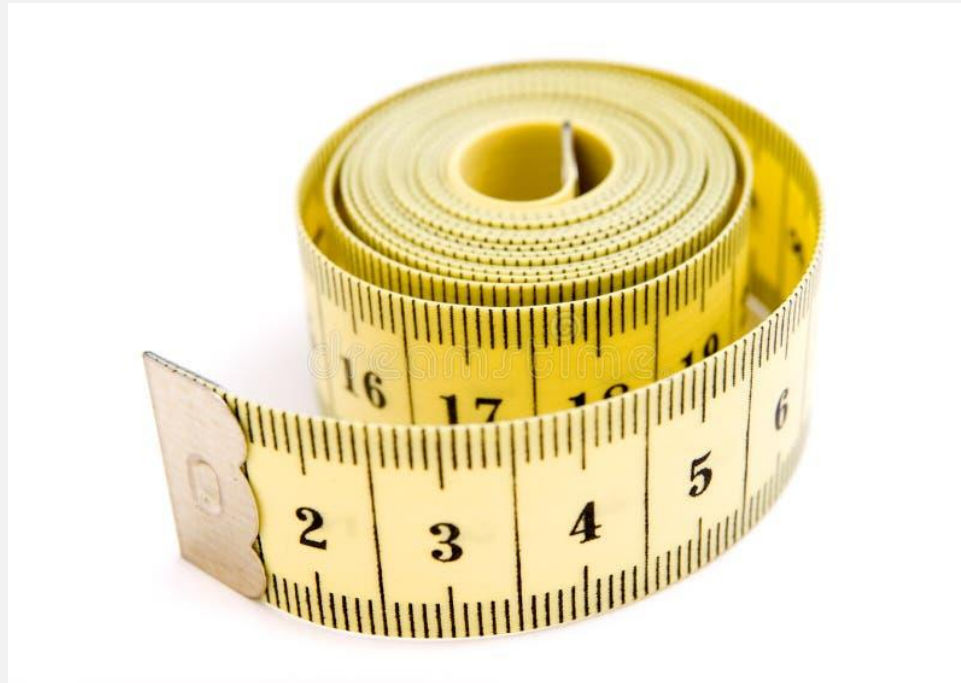
Mid-Upper Arm Circumference (MUAC) and Muscle Strength



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Effects of Elexacaftor/Tezacaftor/Ivacaftor (ETI) on Mid-Upper Arm Circumference (MUAC) and Muscle Strength in Pediatric Cystic Fibrosis Patients: A Single Center Retrospective Analysis

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What is known and unknown?

- ETI: effect lung function and weight
- Effects on MUAC and Muscle Strength?
- MUAC: outcome nutritional status and muscle mass
- Aim: describe effect ETI (1 year or more) for children 10-18 years old



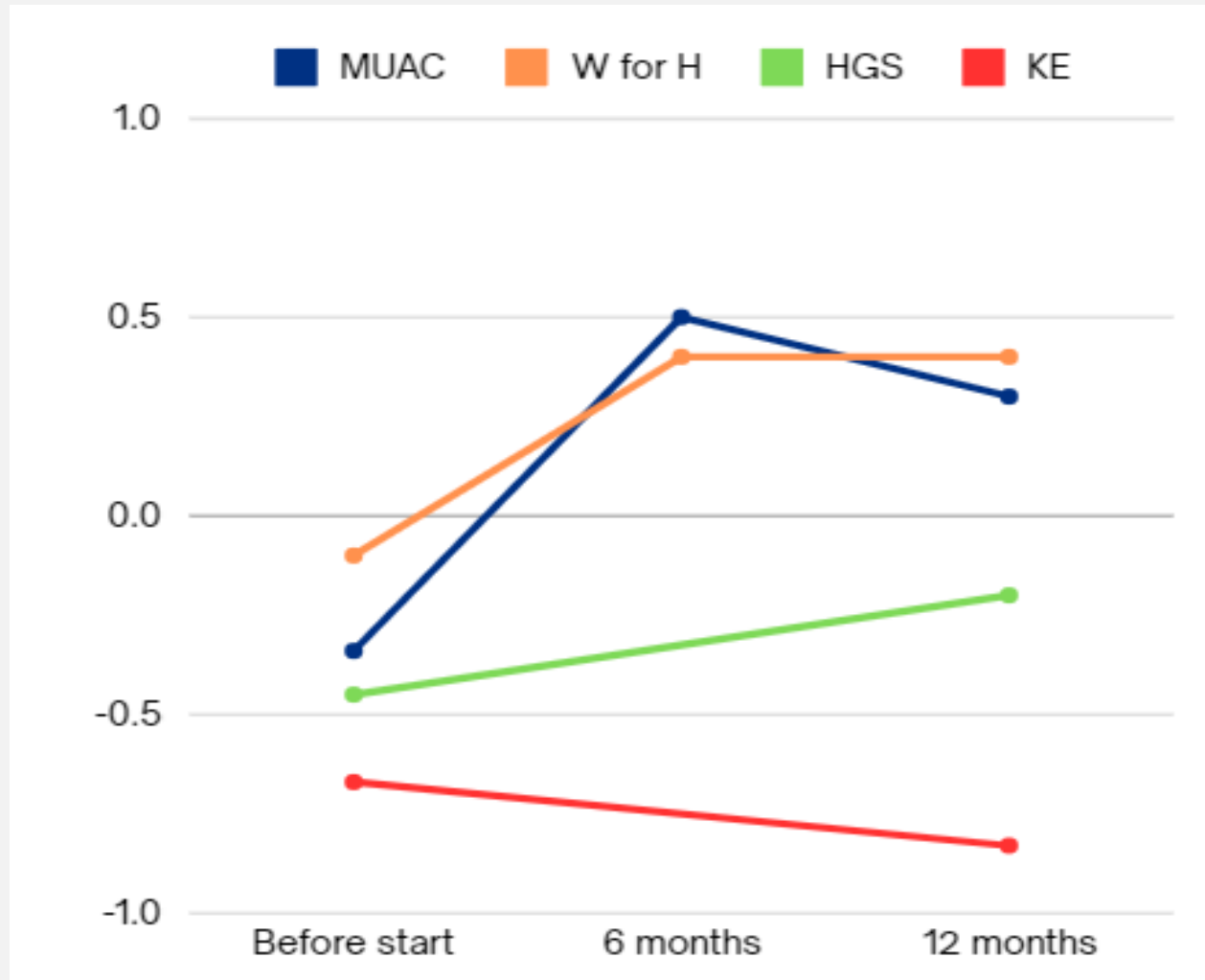
Methods

- Single center retrospective analyses
- MUAC
- Weight for height
- Muscle strength (Handgrip strength (HGS) and Knee Extension (KE))
- Before ETI, 6 months and 12 months after start
- 24 children with CF
- Aged 10-18 years old

Results

	Baseline (N=24)		6 months (N=24)		12 months (N=24)		
	Mean	SD	Mean	SD	Mean	SD	P
MUAC	-0.14	1.42	0.49	1.53	0.27	1.74	0.004
Weight-for-height	-0.10	1.17	0.35	1.07	0.40	1.08	<0.001
HGS	-0.45	1.53	N.A		-0.21	1.75	0.65
KE	-0.67	0.68	N.A.		-0.83	0.73	1.0

Results



Conclusion

- Significant increase MUAC and Weight for height
- Better nutritional status and increased muscle mass
- But not a significant increase of muscle strength

Discussion

- The improved nutritional status is the effect of ETI
- A longer follow up of patients with CF using ETI
- A target physical treatment program in CF care



Questions?

