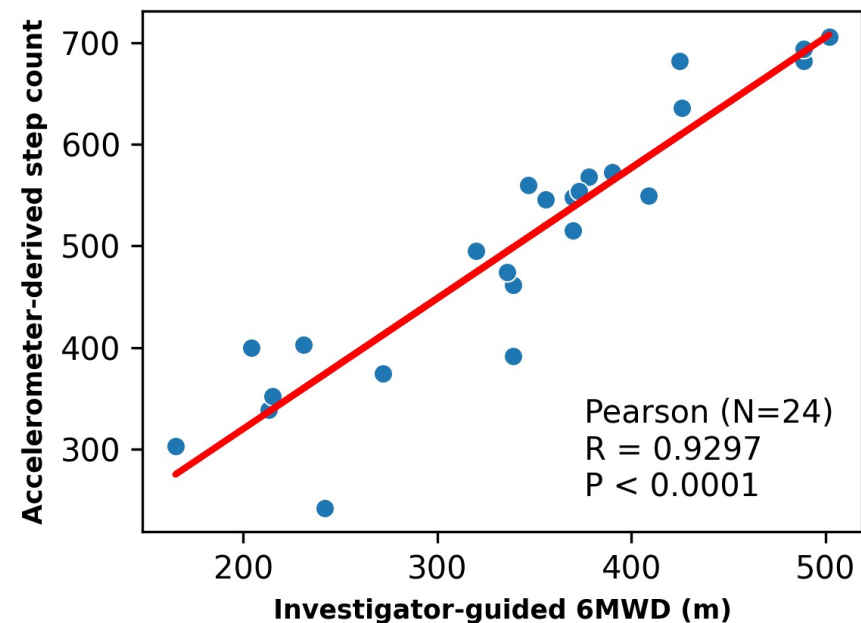
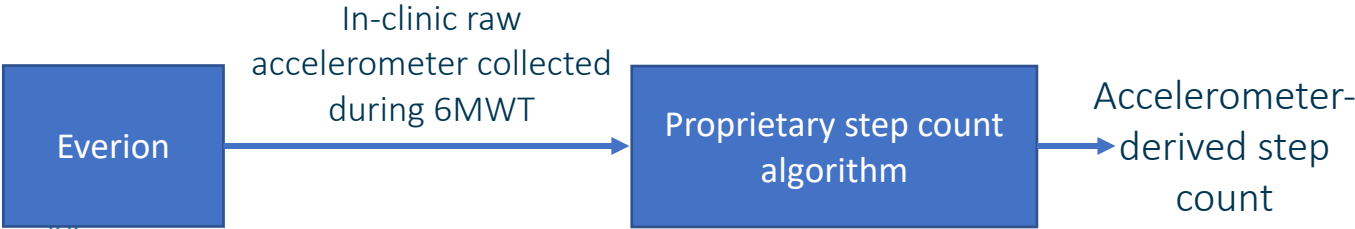


Correlation between in-clinic accelerometer-derived step count and Investigator-guided 6MWD at Week 0



- Step count derived from in-clinic raw accelerometer data collected during Investigator-guided 6MWT by wearable is strongly correlated with Investigator-guided 6MWD.



Patients not included in this analysis either do not have Investigator-guided 6MWT in eCRF or has missing Everion raw accelerometer during 6MWT.

Progress	Included in analysis	Not included in analysis
Completed	19 patients: CT003-02-002 CT003-02-013 CT003-02-003 CT003-02-015 CT003-02-004 CT003-02-016 CT003-02-005 CT003-02-018 CT003-02-006 CT003-05-001 CT003-02-007 CT003-05-002 CT003-02-008 CT003-05-005 CT003-02-010 CT003-05-006 CT003-02-011 CT003-05-007 CT003-02-012	2 patients with missing Everion raw accelerometer during 6MWT: CT003-02-001 CT003-05-003 6 patients with no 6MWD in eCRF: CT003-01-002 CT003-01-003 CT003-01-005 CT003-01-007 CT003-02-009 CT003-04-001
Ongoing	3 patients: CT003-02-019 CT003-02-020 CT003-03-001	2 patients with missing Everion raw accelerometer during 6MWT: CT003-05-008 CT003-06-001
Withdrawn	2 patients: CT003-02-014 CT003-05-004	1 patient with missing Everion raw accelerometer during 6MWT: CT003-02-017 4 patients with no 6MWD in eCRF: CT003-01-001 CT003-01-006 CT003-01-008 CT003-01-009

In-clinic accelerometer-derived estimated 6MWD and eCRF 6MWD for Investigator-guided 6MWT at Week 0

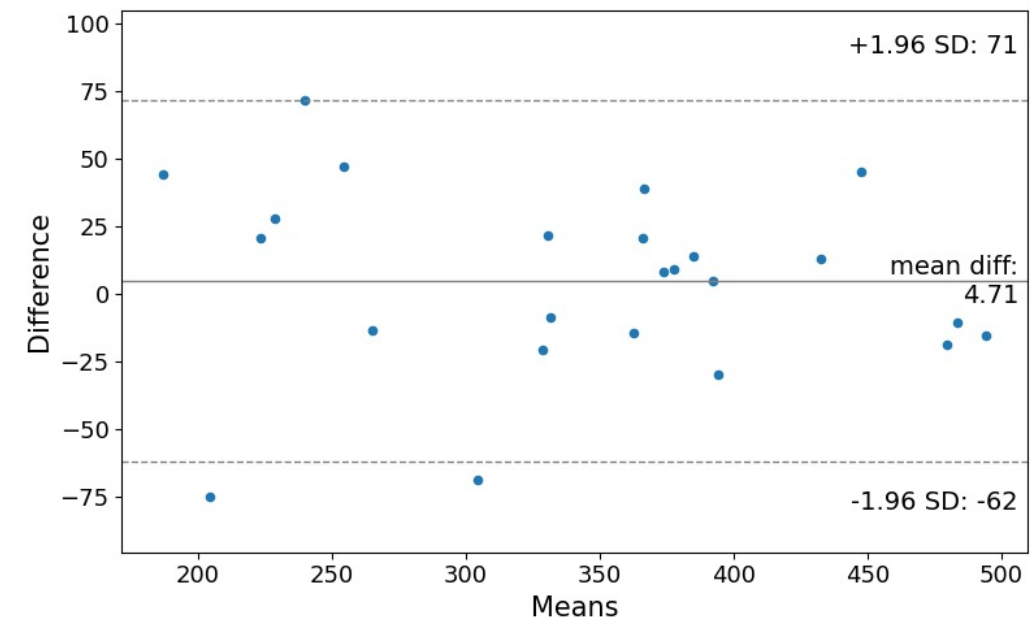


- Average step length during 6MWT for CHF patients is 0.69 m [1].
- Using the average step length of CHF patients in literature [1], the output of our step length algorithm is converted into distance using the following simple calculation:

$$\text{Estimated distance} = 0.69 \times \text{step count}$$

- With eCRF 6MWD of investigator-guided 6MWT at Week 0 (n=24) as reference, our distance estimation achieves Mean Absolute Error 27.64 m (SD 20.89 m) and mean difference 4.71 m above reference.
- With more patients recruited in the future, we can use patient data to estimate step length from patient characteristics in eCRF, such as BMI [1], or height and NYHA class [2].

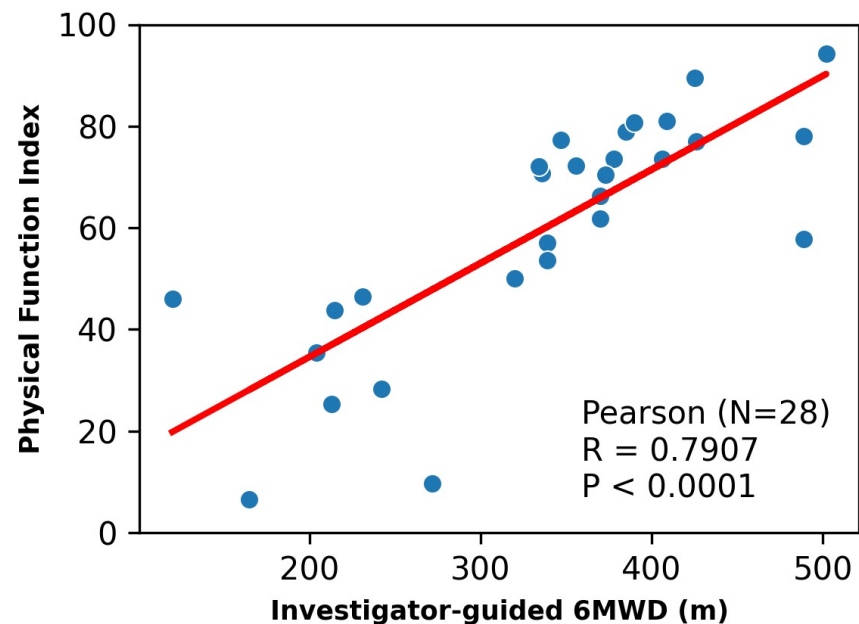
Bland-Altman plot of agreement between accelerometer-derived estimated 6MWD and eCRF 6MWD



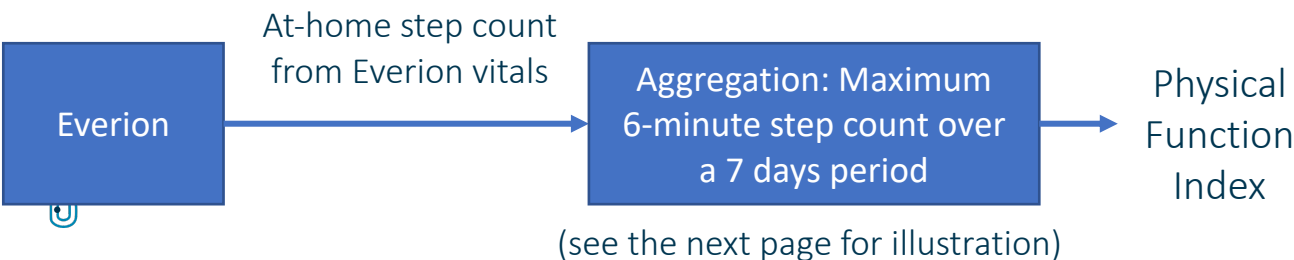
[1] Pepera, Garyfallia K., et al. "Influence of step length on 6-minute walk test performance in patients with chronic heart failure." *Physiotherapy* 98.4 (2012): 325-329.

[2] Davies, S W et al. "Short-stepping gait in severe heart failure." *British heart journal* vol. 68,5 (1992): 469-72.

Correlation between at-home Physical Function Index and Investigator-guided 6MWD at Week 0



- Physical function index derived from at-home step count data passively collected at-home by wearable is strongly correlated with Investigator-guided 6MWD.



Patients not included in this analysis either do not have Investigator-guided 6MWT in eCRF or has missing Everion vitals in the first 7 days of trial:

Progress	Included in analysis		Not included in analysis
Completed	20 patients: CT003-02-001 CT003-02-012 CT003-02-002 CT003-02-013 CT003-02-003 CT003-02-015 CT003-02-004 CT003-02-016 CT003-02-005 CT003-02-018 CT003-02-006 CT003-05-001 CT003-02-007 CT003-05-002 CT003-02-008 CT003-05-003 CT003-02-010 CT003-05-006 CT003-02-011 CT003-05-007		1 patient with missing Everion vitals in the first 7 days of trial: CT003-05-005
	6 patients with no 6MWD in eCRF: CT003-01-002 CT003-01-003 CT003-01-005 CT003-01-007 CT003-02-009 CT003-04-001		
Ongoing	5 patients: CT003-02-019 CT003-02-020 CT003-03-001 CT003-05-008 CT003-06-001		
Withdrawn	3 patients: CT003-02-014 CT003-02-017 CT003-05-004		4 patients with no 6MWD in eCRF: CT003-01-001 CT003-01-006 CT003-01-008 CT003-01-009

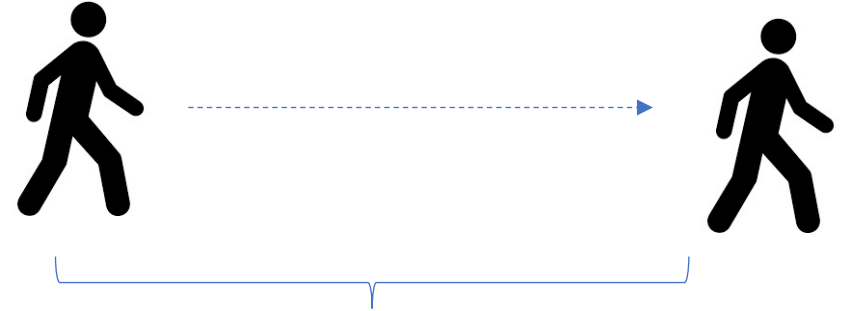
Physical Function Index Derivation (Version 1)

1

Intended Use:

Physical Function Index (version 1) is developed to be able to passively monitor and quantify patient activity

2



Passively capture total **STEP COUNT** in 6 minutes window

3



Physical Function Index is the maximum **STEP COUNT** in 6 minutes over a continuous 7 days period

