

# **Dingo test data summary**

SORL

2023-04-26



# Sample and methods

- 4 (2 pairs) canine hip sample
- Groups: 1)BFX ; 2)Dingo no screw

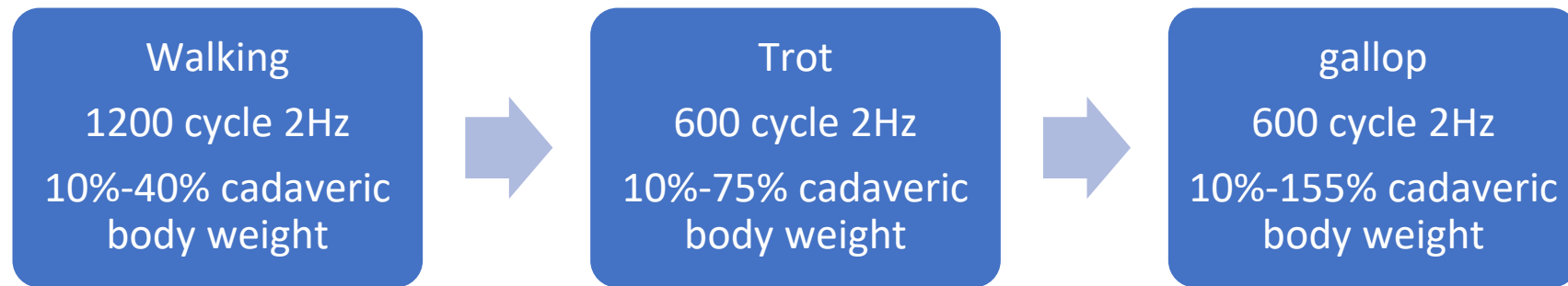
Sample	Group
Sample 1 Left	BFX
Sample 1 Right	Dingo no screw
Sample 2 Left	Dingo no screw
Sample 2 Right	BFX



# Sample and methods

## Test protocol

- Cycle test



- Failure test

Compression to failure was performed with 500N/s rate



# Sample and methods

## Endpoints

### 1: MTS data:

Actuator movement (Hip Subsidence) during cycle test (walk, trot, gallop)

Maximum failure force, Stiffness and Energy to failure

### 2: strain gauge data:

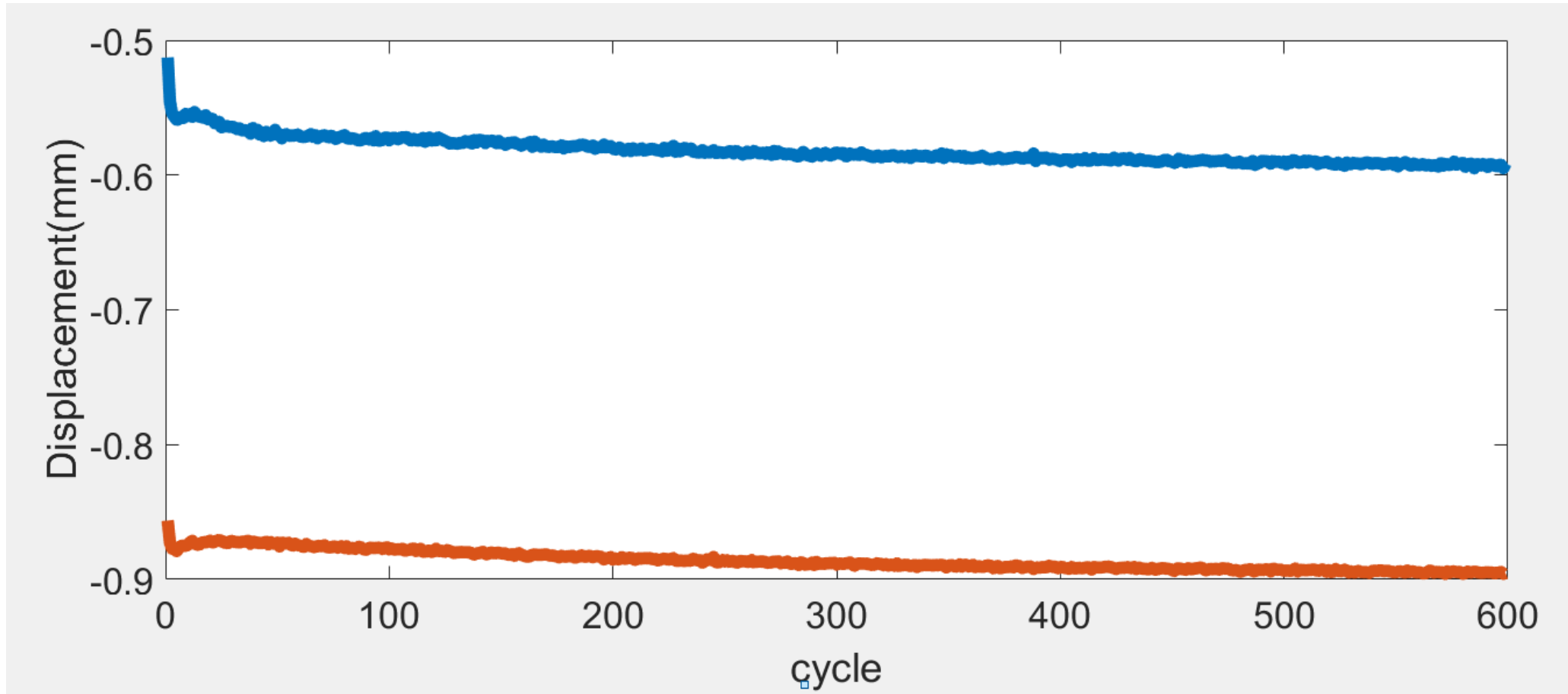
Minimum principal strain (compression) during cycle test (walk, trot, gallop)

### 3: Motion capture data

Hip Subsidence, Abduction-adduction, Flexion-extension

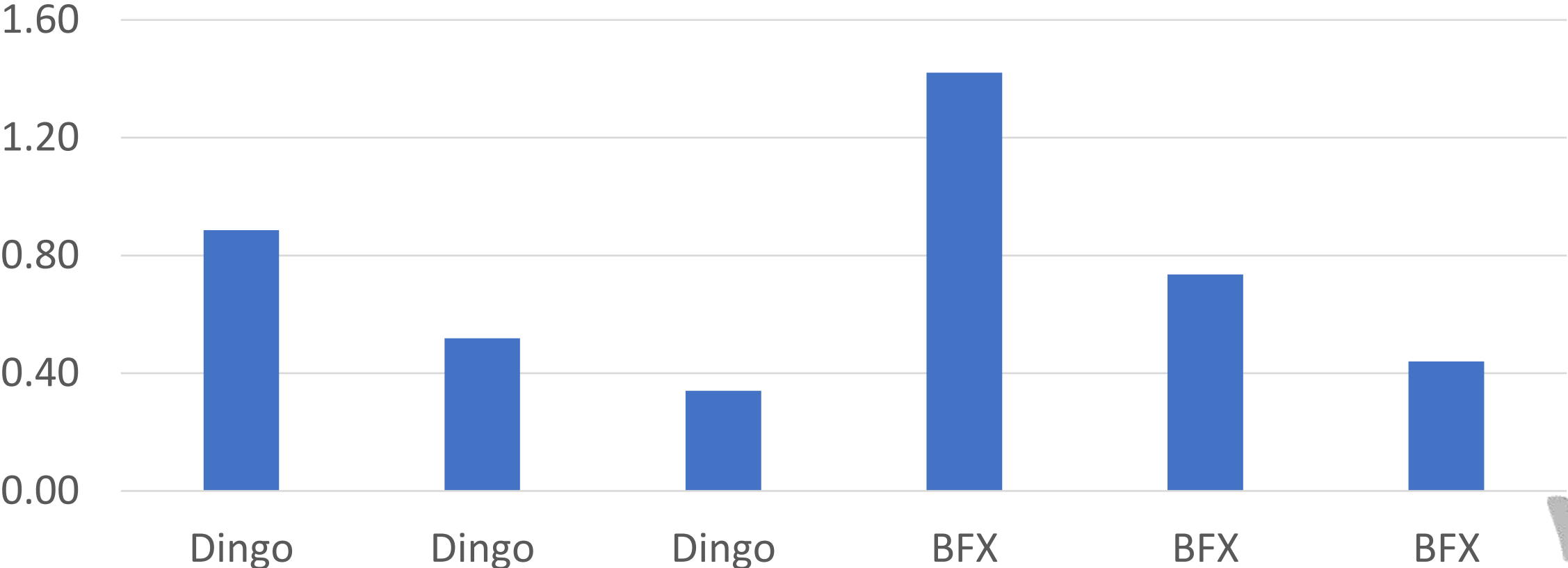


# MTS cycle test example of the gallop cycle test displacement output

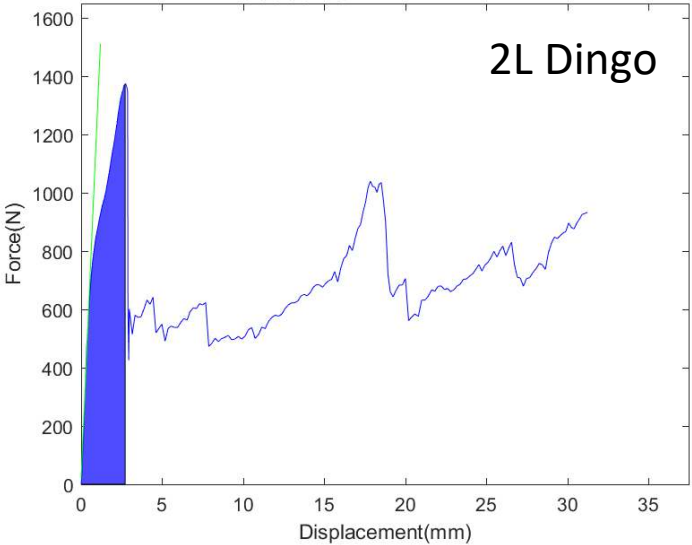
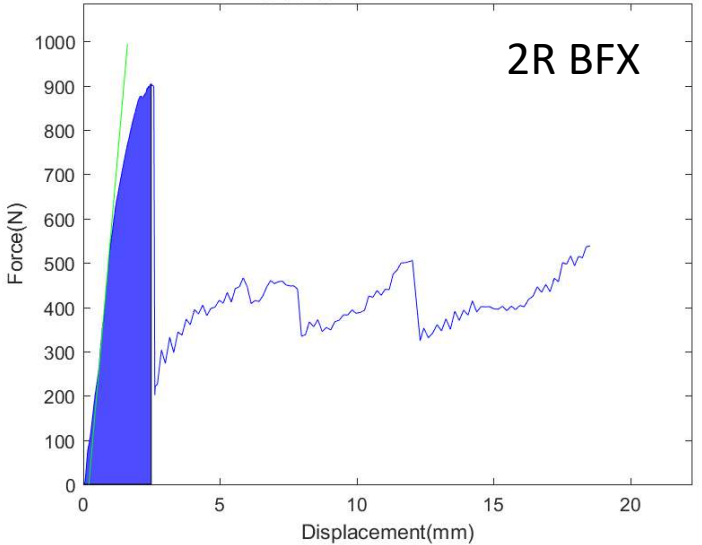
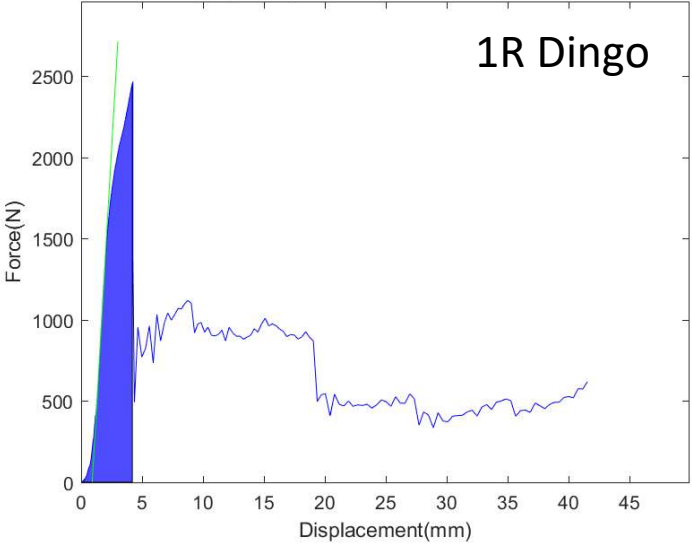
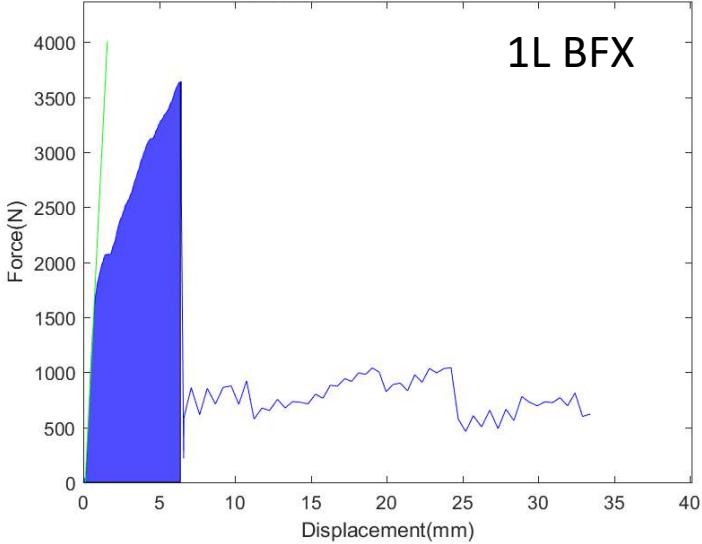


# MTS cycle test (sample 1R and 2R)

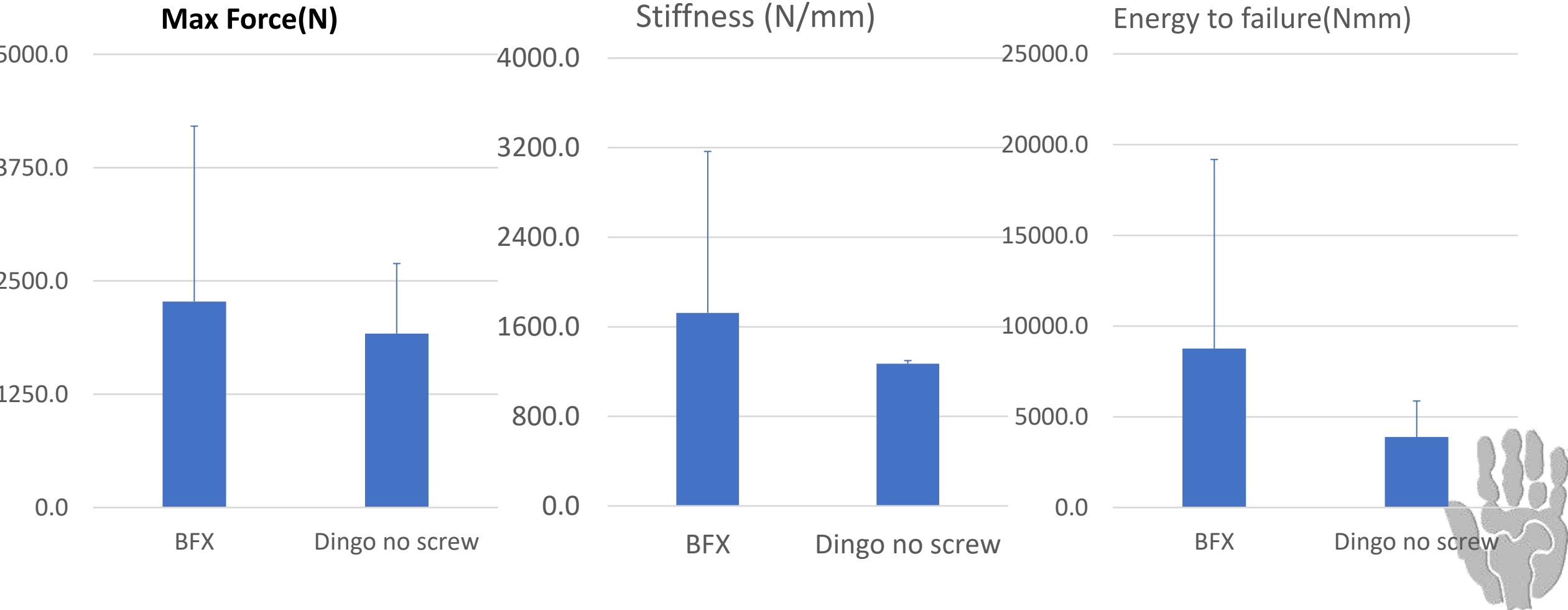
## Hip Subsidence



# MTS failure test raw graph

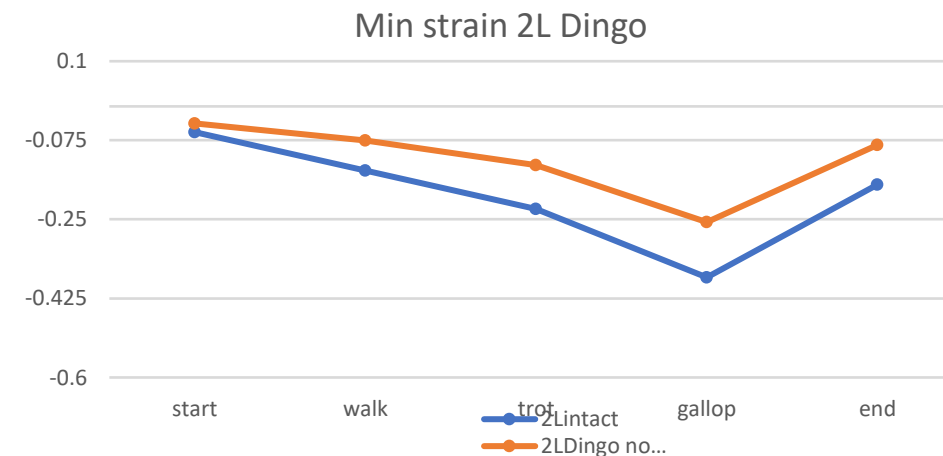
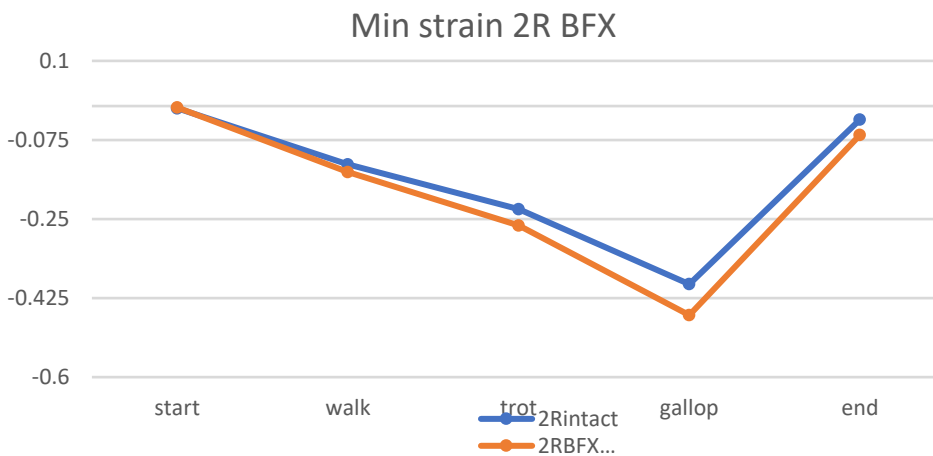
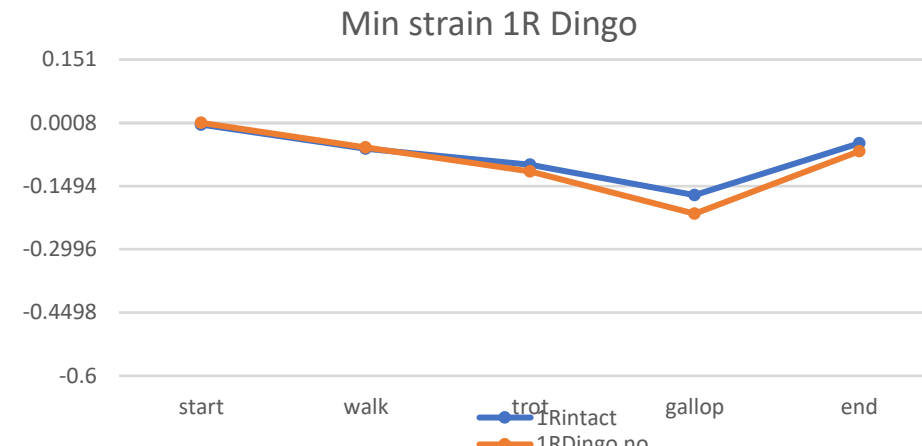
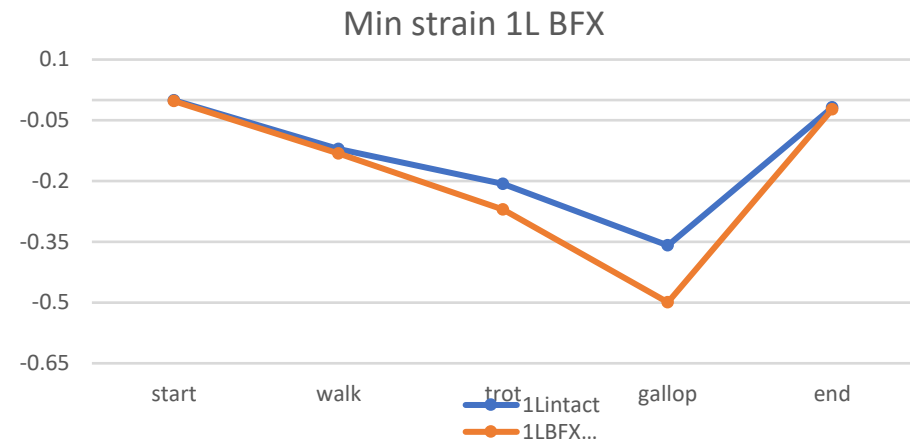


# MTS failure test mean and STD

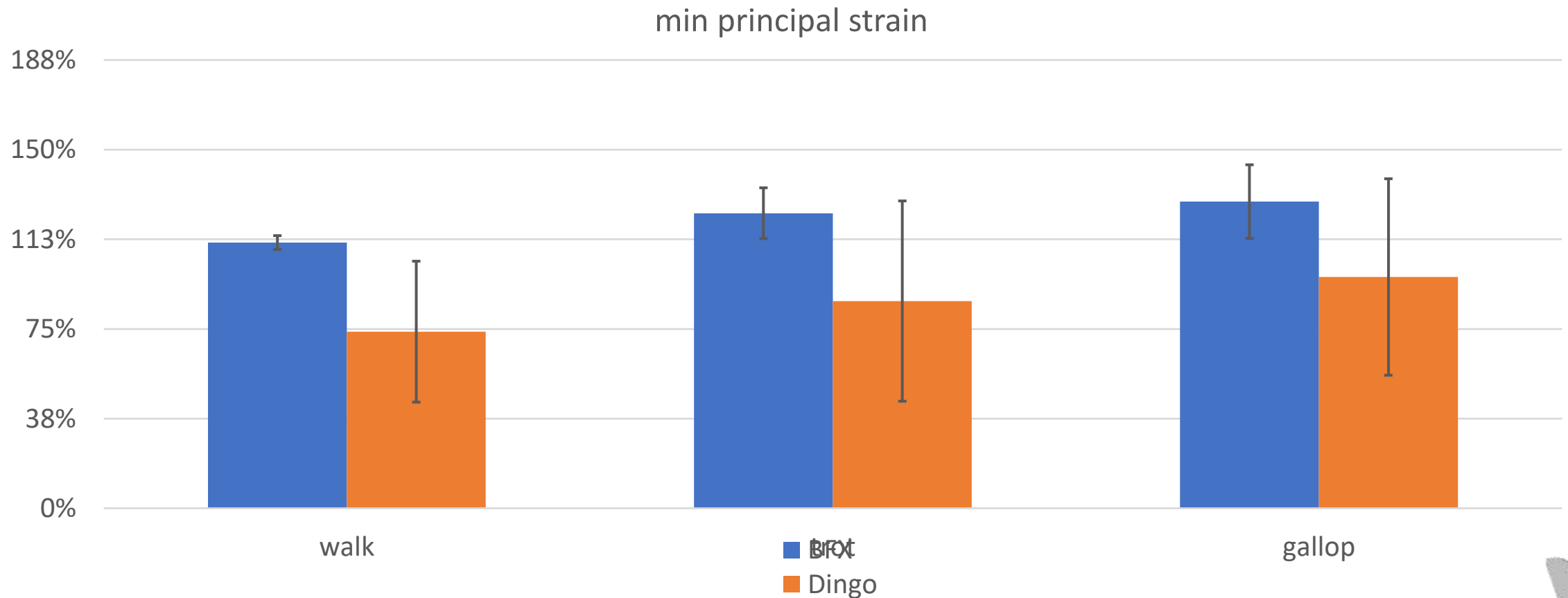




# Min principal strain of each sample intact vs treatment



# Min principal strain percentage (treatment / intact %) of each group



# Motion capture

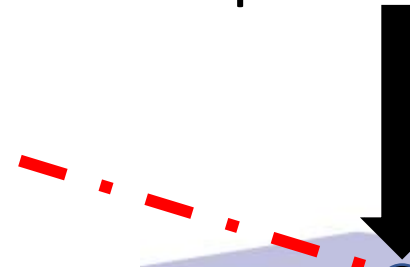
Hip Subsidence

Flexion-extension



Abduction-adduction

Hip Subsidence



Abduction-adduction

Flexion-extension

