

Plantar Pressure Analysis & Diagnosis


DATA ACQUISITION AND ANALYSIS

StepForce Training

Part 2

Presented By Paul Graham

Recap of last week



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Forces we live with daily



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Force pathways and Asymmetry

Representing Force or primary loading from Gravity

Representing Ground Reaction Force (Equal amount)

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How we compensate

- **Neural direction and management**
 - From postural and peripheral Inputs
- **Using:**
 - Muscle Strength
 - Connective tissue elasticity
 - Joint Mobility

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Don't judge a book by it's cover

Excess Pronation and medial weight bearing

Excess Supination and lateral weight bearing

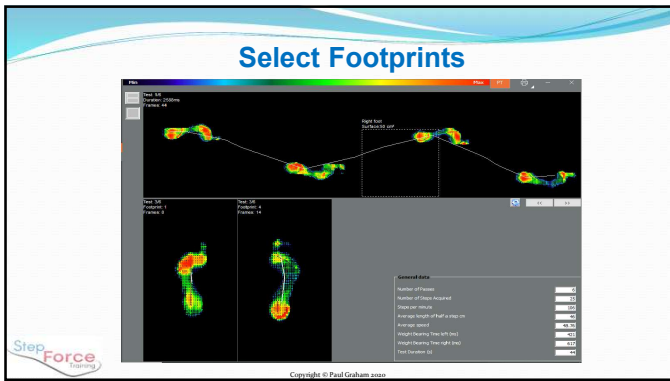
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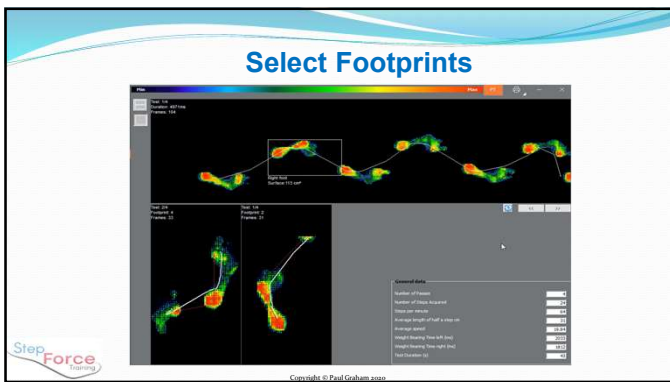
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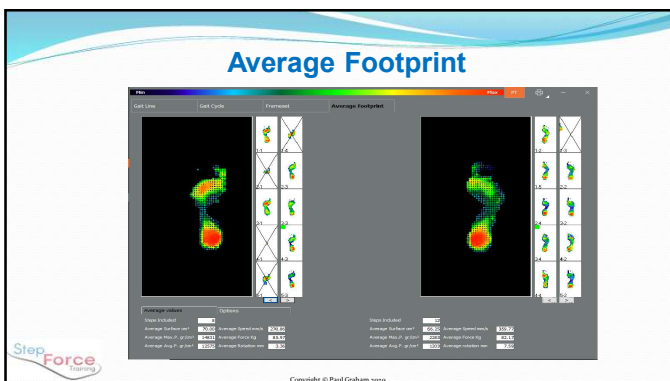




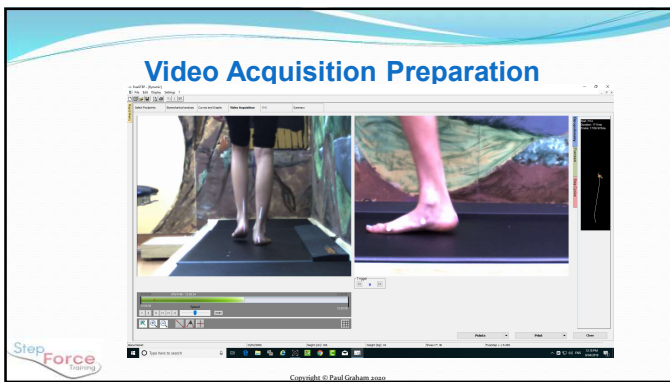


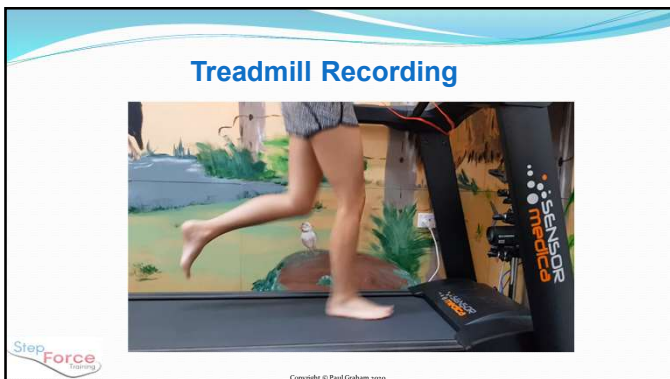




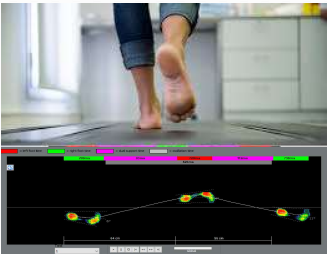








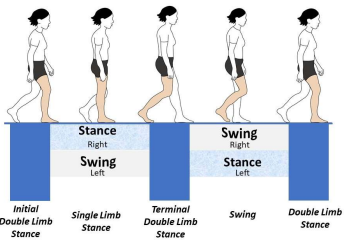
Gait Analysis Foundations



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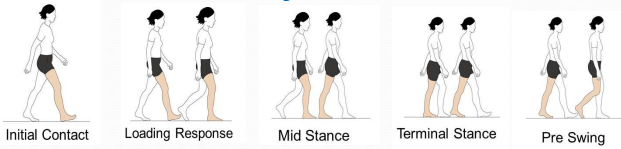
Gait Analysis Parameters



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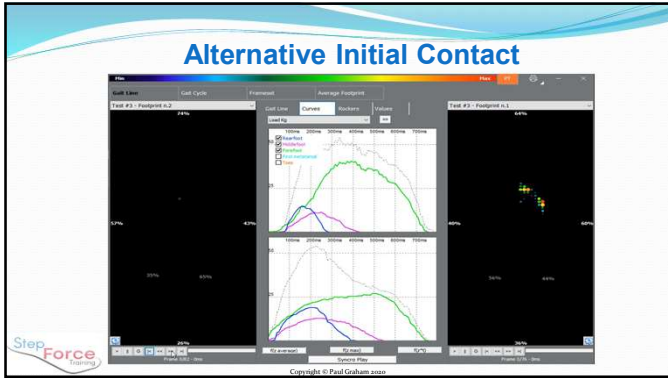
Gait Analysis Parameters

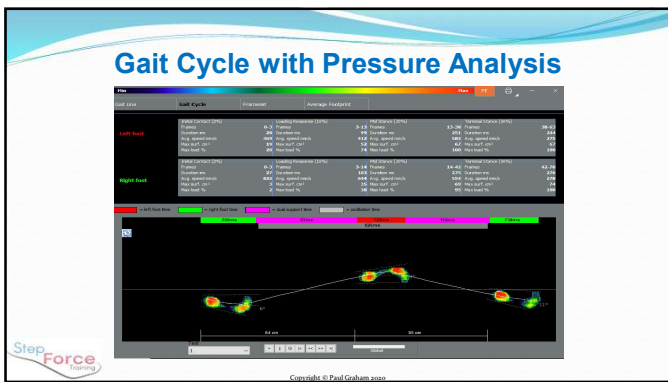


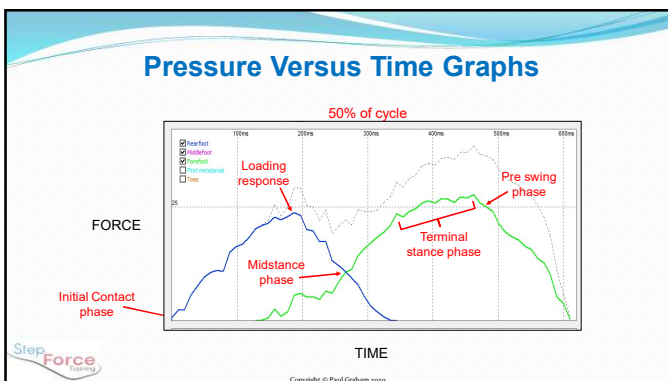
<p>Initial Contact</p> <p>Key Features</p> <ul style="list-style-type: none"> • heel rocker. • pretibial muscles draws the leg forward. 	<p>Loading Response</p> <p>Key Features</p> <ul style="list-style-type: none"> • Calcaneocuboid joint stabilisation process begins 	<p>Mid Stance</p> <p>Key Features</p> <ul style="list-style-type: none"> • Calcaneocuboid joint closepacked • Initiation of low to High gear • Ankle Rocker • Windlass initiates 	<p>Terminal Stance</p> <p>Key Features</p> <ul style="list-style-type: none"> • Windlass continues with reverse windlass on lesser toes • Medial column stabilises and High gear established • Forefoot rocker 	<p>Pre Swing</p> <p>Key Features</p> <ul style="list-style-type: none"> • Reverse Windlass Cont • Toes Rocker • Catapult function of toes
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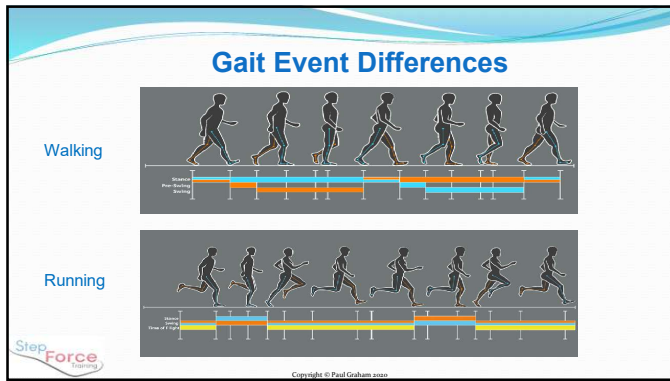
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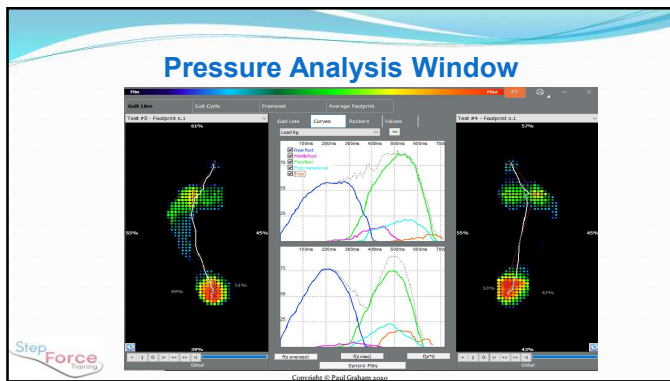


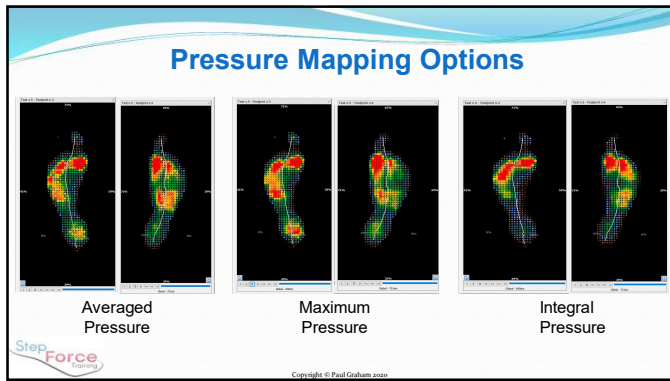


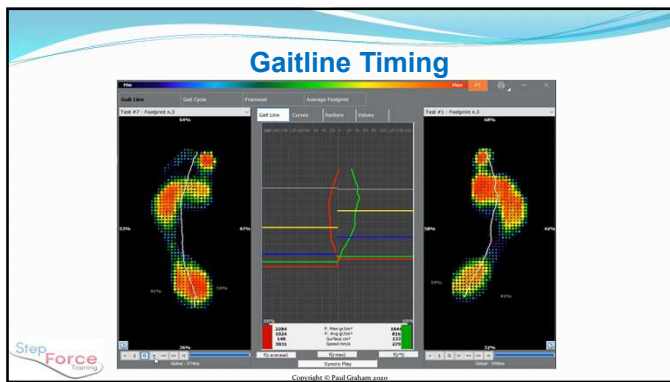


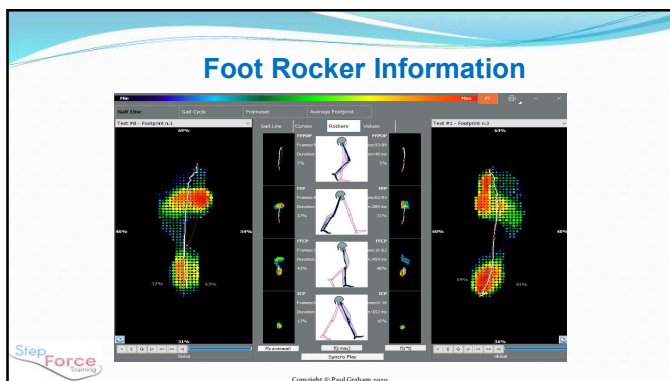


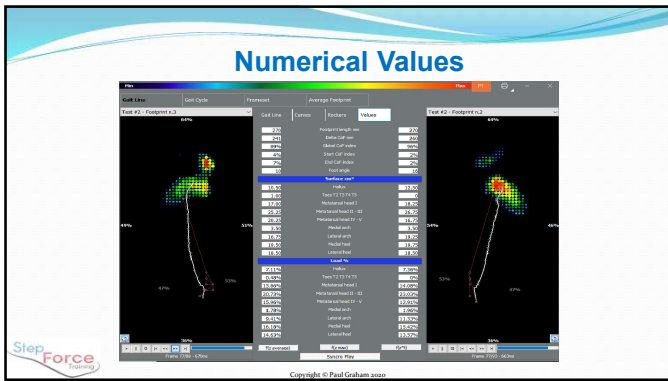


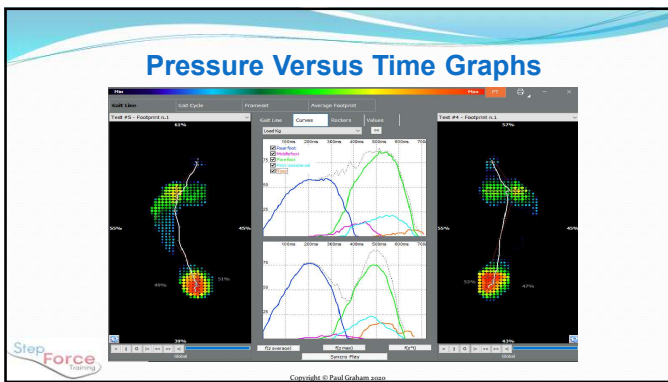


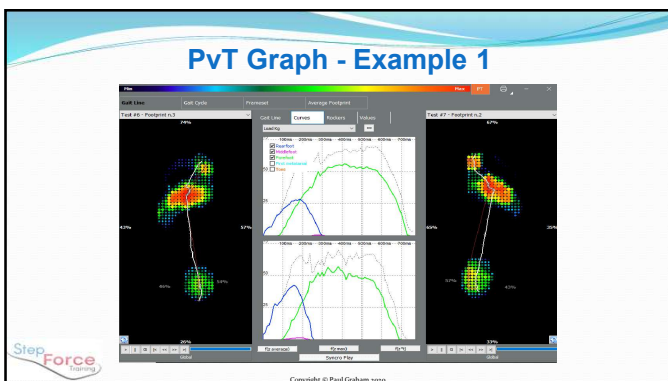


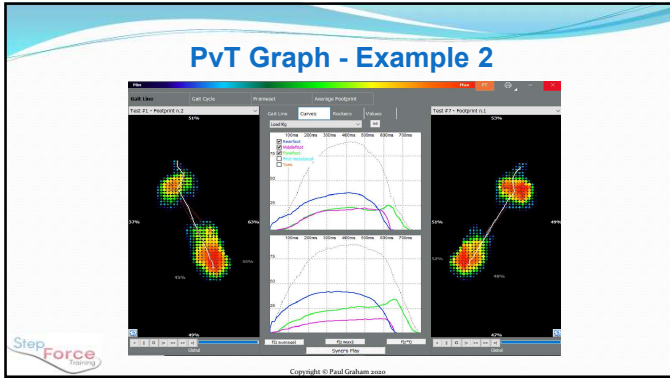


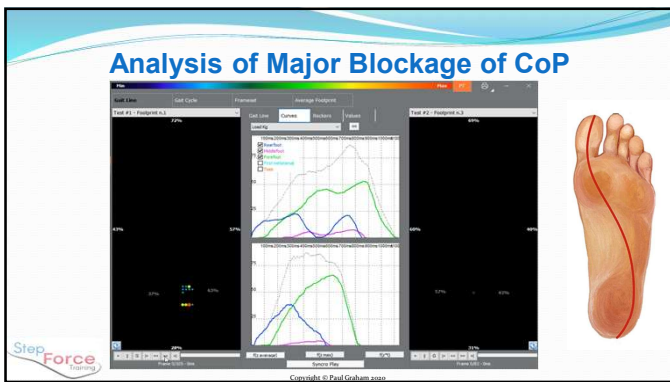


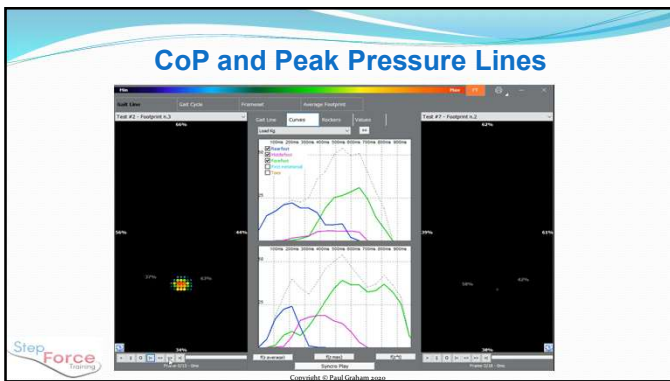




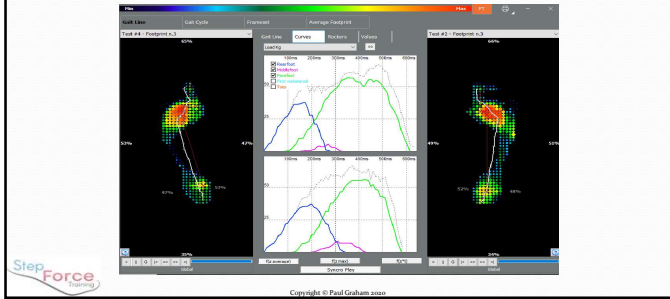




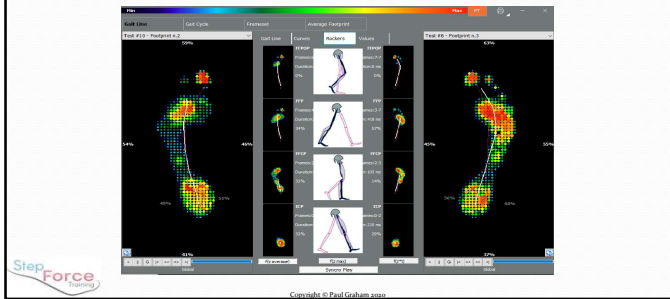




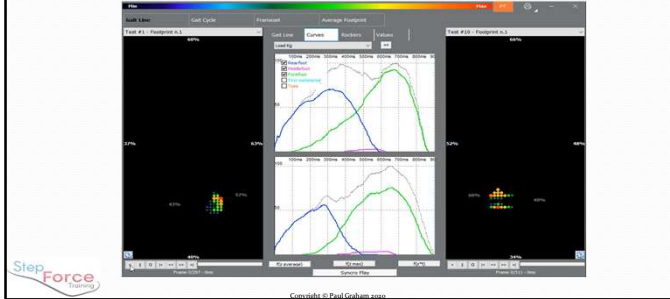
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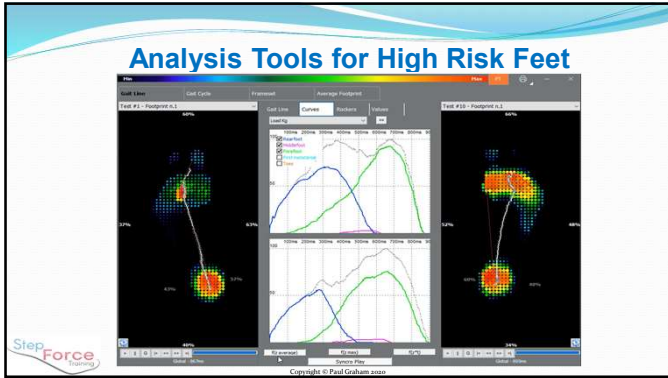


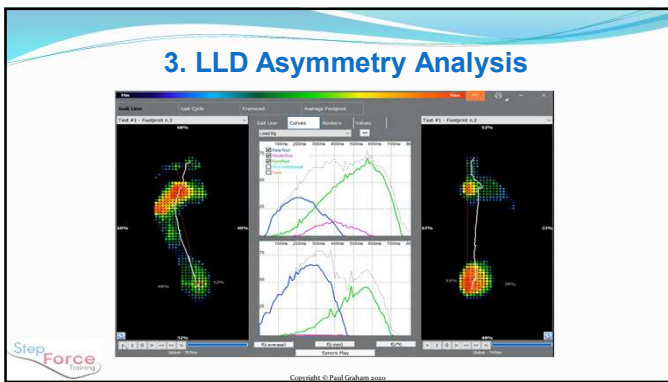
Non-Compensated Forefoot Supinatus

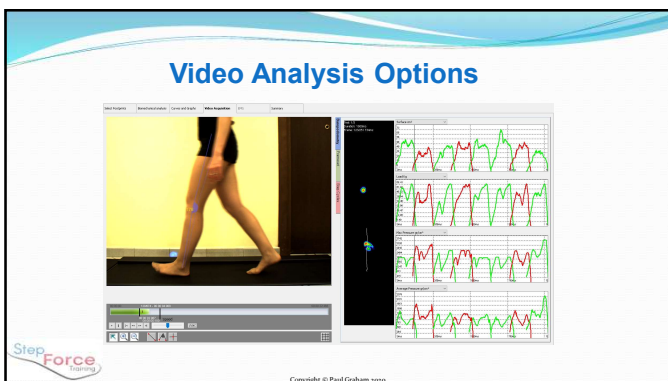


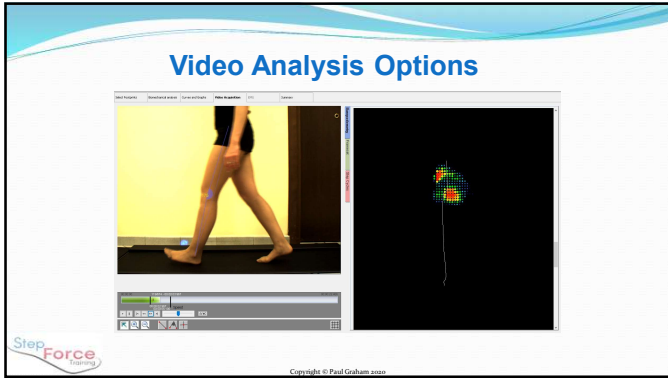
2. Analysis of High Risk Feet

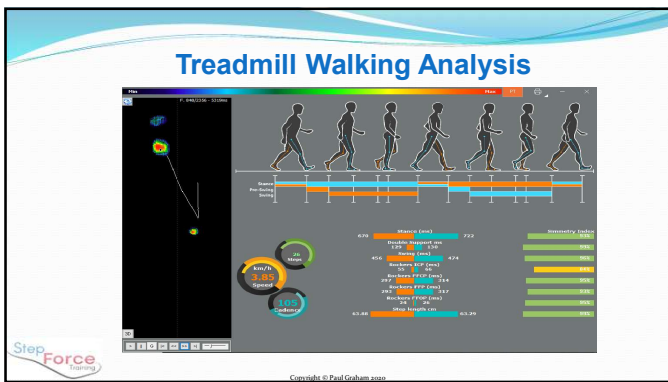


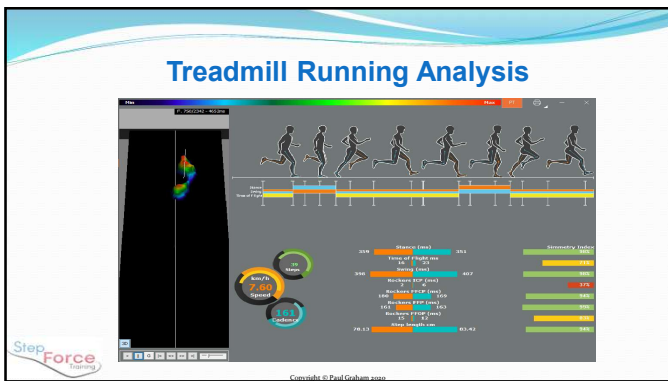


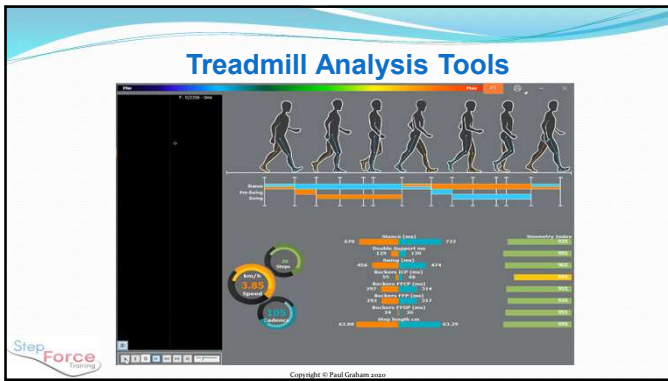


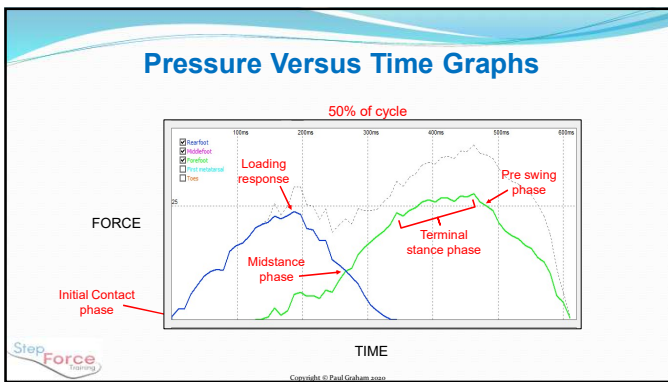




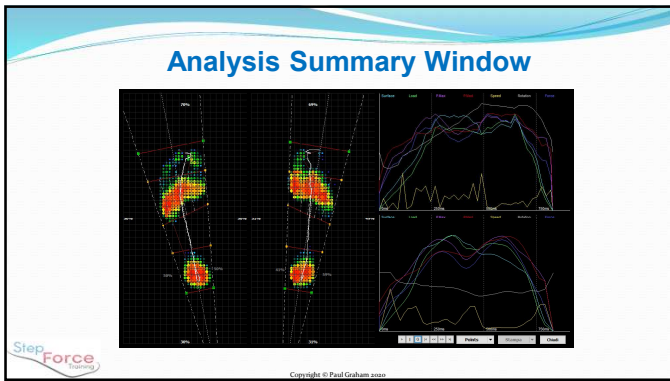


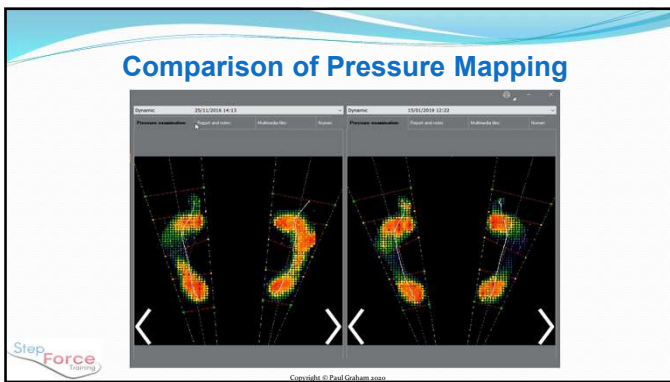














Q and A Discussion



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Health

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