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Biomechanics of Female Distance Runners – Working with Technical Feedback

Yann Kai Oh, Dr. Brian Hanley, Dr. Andi Drake, Andy Henderson Leeds Beckett University



INTRODUCTION

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SETUP

Middle-distance (n = 11)

- World Athletics points 1084 ± 90
- 800m: n = 4, 2:05
- 1500m: n = 7, 4:16

Long-distance (n = 11)

- World Athletics points 1122 ± 64
- 10k: n = 3, 33:08
- Half Marathon: n = 2, 1:11:54
- Marathon: n = 6, 2:28:58



PROTOCOL





GLOBAL STIFFNESS







WHAT DOES IT 'LOOK LIKE' IN PERSON?

INITIAL CONTACT





MID-STANCE





TOE-OFF







Long-distance

Middle-distance

AT 20 km/h...



Duty Factor



Long-distance

Middle-distance

Leg Stiffness (Normalised)





AT 20 km/h...









800m Specialists

• 1500m Specialists



AT 24 km/h...









TO RUN FASTER...





WORKING WITH TECHNICAL FEEDBACK...





Duty Factor





WORKING WITH TECHNICAL FEEDBACK...





Duty Factor





WORKING WITH TECHNICAL FEEDBACK...

INITIAL CONTACT





MID-STANCE





TOE-OFF









TIME TO HEAD UPSTAIRS TO THE HUMAN MOVEMENT LAB!

