

International Academy Conference -Achievements, Legacy and Continuity 2020-







Relative Age Effect among Youth Male Football Players in Singapore JOSHUA KWEE

Introduction

As the primary objective of professional football academies around the world is to identify and develop talents. Studies had identified that one of the many aspects that may influence the scope of talent identification in football: Relative Age^(1,3).

Relative Age (RA): Determined by the competition age group's cut-off date and date of birth of the athlete.

Relative Age Effect (RAE): An over-representation of players born earlier in the competition year Age^(2,3).

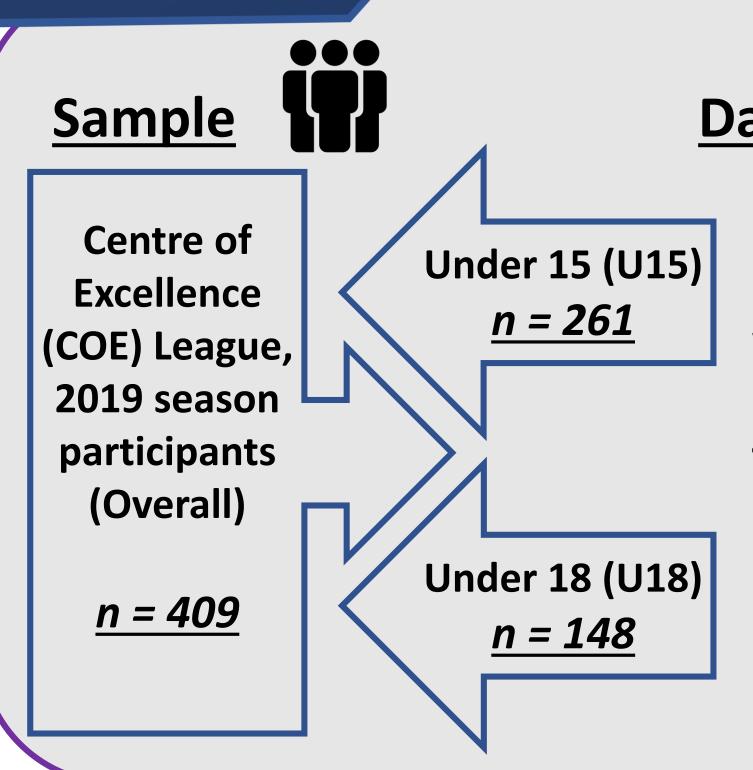
Objective

To examine RAE on player selection in youth developmental league of professional football in Singapore and its relationship with anthropometric measurements, playing positions and starting line-ups.



(+183 days)

Method



Data collection //

Player's data and match information were collected before and after the match through:

- Match reports
- Portable weighing scale & stadiometer (anthropometry)

<u>Variables</u>

- Date of Birth (DOB)
- Weight & height
- Playing position —
- Starting line-up

Goalkeeper Defender Midfielder **Forward**

Data Analysis

(+364 days)

Grouped into Birth Quarters (Q1–Q4).

- Cut-off date 1st of January
- 3 sample groups (U15, U18 & Overall)

Q1 Q2 Q3 Q4 Oct to Jul to Jan to Apr to Sep Mar Dec Jun

Competition year

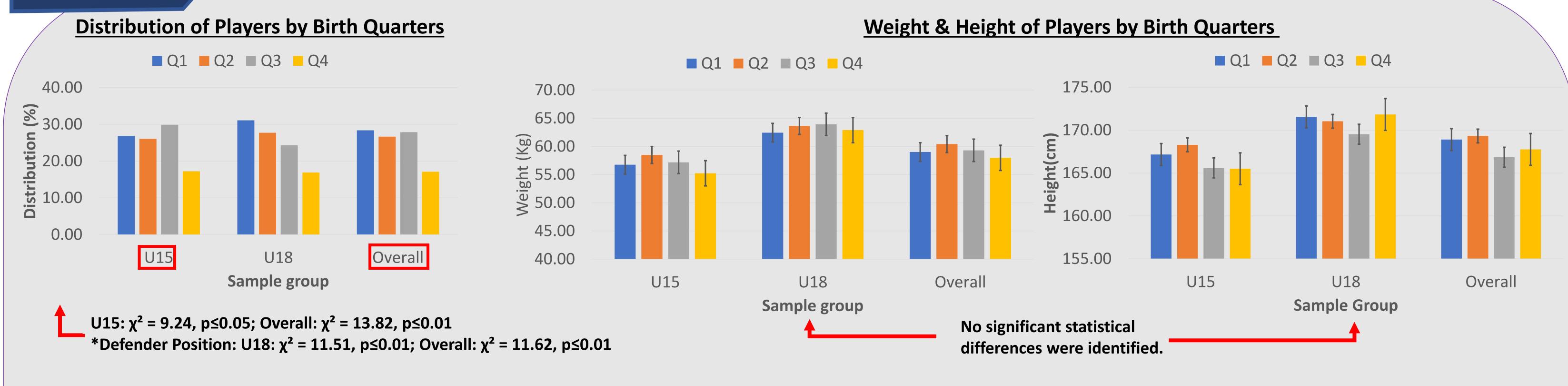
(0 days)

Statistical test?

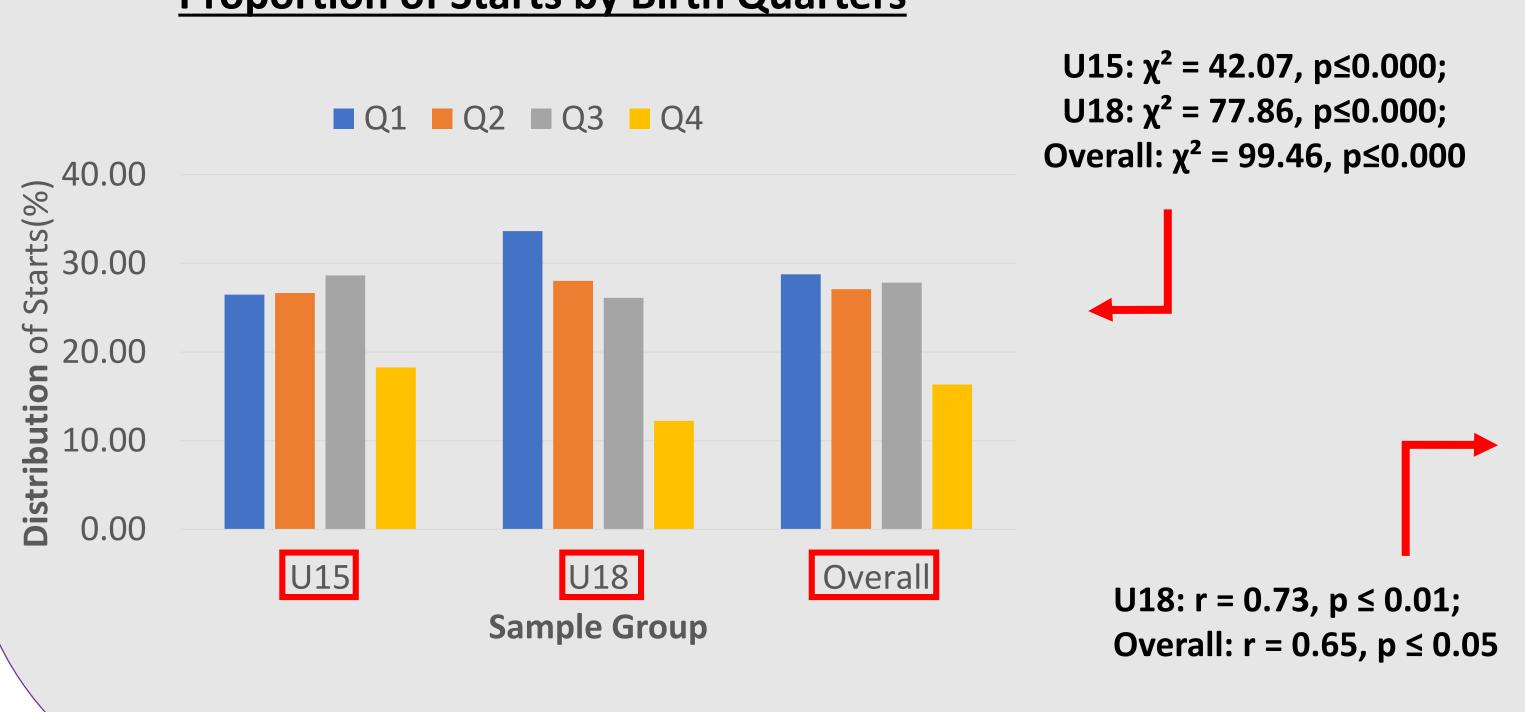
RAE:

- Chi-square test (Observed vs Expected) distribution)
- One-way ANOVA and Tukey HSD (anthropometric differences)
- Linear regression (correlation between DOB and number of starts in line-up)

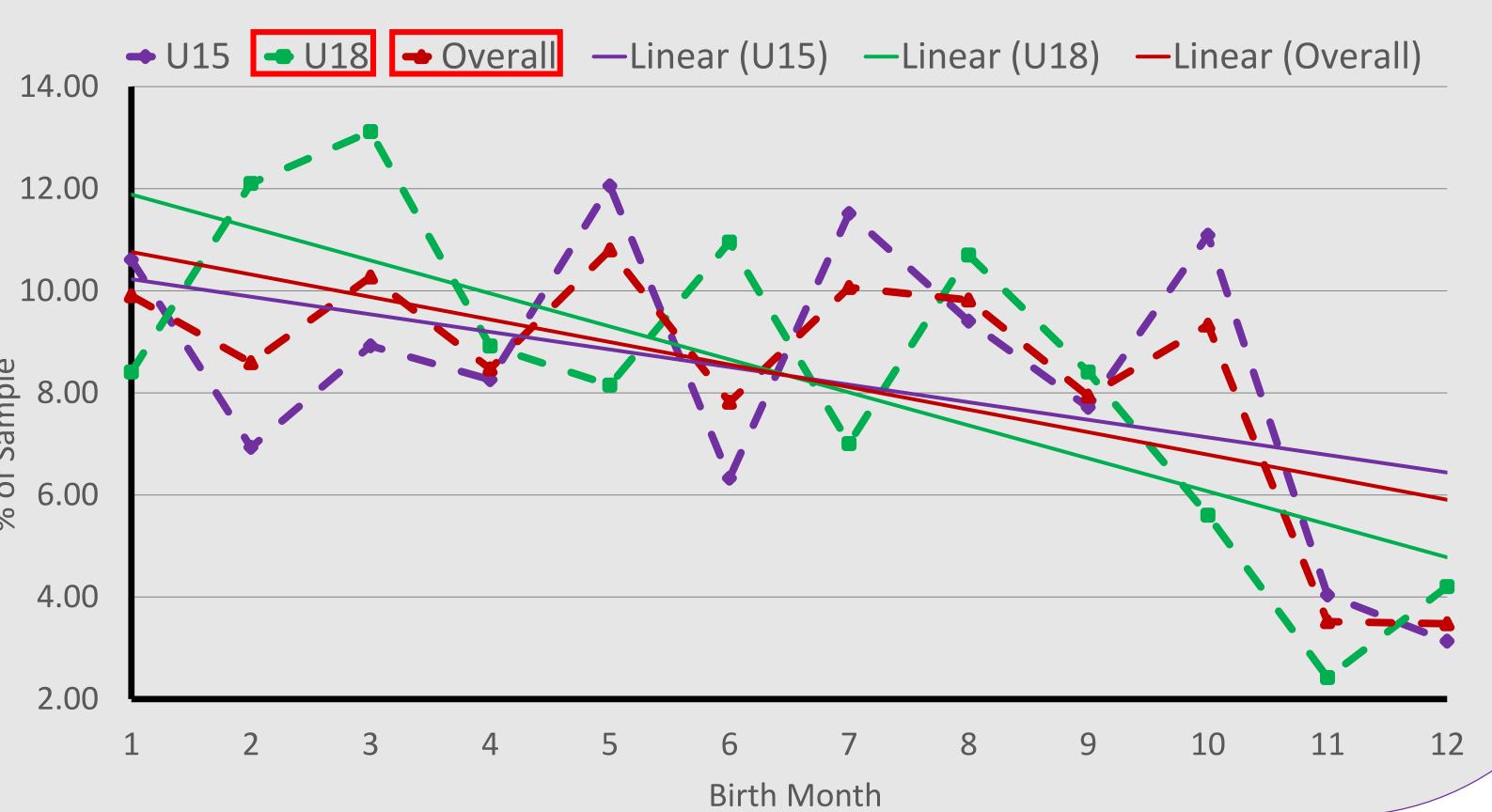
Results



Proportion of Starts by Birth Quarters



Correlation between Proportion of Starts & Month of Birth



Conclusions

- RAE was identified in youth developmental teams of Singapore professional football clubs.
- Selection bias towards chronologically older players exist at the youth level while also noting the trend fades as age group gets older.
- While height and weight did not differ significantly, the defender position was found to consist of players born earlier in the competition year.
- Older players were more often selected in starting line-ups, which may lead to less playing time for younger players.
- This phenomenon may cause younger players to quit the sport early. A missed opportunity for teams to uncover potential talents.