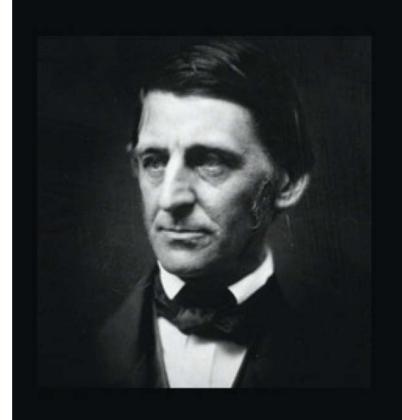


Ralph Waldo Emerson



As to methods, there may be a million and then some, but principles are few. The man who grasps principles can successfully select his own methods.

The journey to the top is anything but a stable concept.

Complex, dynamic and individualized

Athlete will generally do one of three things...

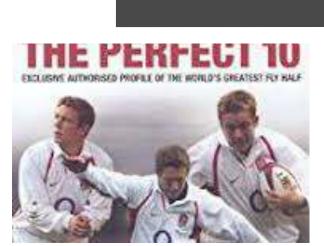
Some will achieve early and late success

Most will do one or the other









Those that fly are rare!

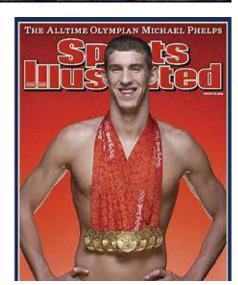




Table 1. Review of characteristics of developmental practice patterns leading to early success in adolescence and to long-term success in international senior elite sport.

Training and Competitions	Early Success	Senior Success
Early competitive success	+	0
Early start of training and competitions	+	-
Early specialization	+	-
Training intensity in childhood	+	-
Training intensity in late adolescence/adulthood		0
Aggregated training volume	+	0
In Other Sports		
Training intensity in childhood	-	+
Training intensity in adolescence/adulthood		+
Competitions in childhood	-	+
Competitions in late adolescence/adulthood		+
Aggregated volume of training and competitions	-	+

^{+ =} positive correlation with success, o = no systematic correlation, - = negative correlation with success



Home sweet home for the next two weeks

#BuenosAires2018 #YouthOlympics



04/10/2018, 20:08



High early rise often precedes train wrecks!

Motivation, burn out





gland U17s celebrate their World Cup win

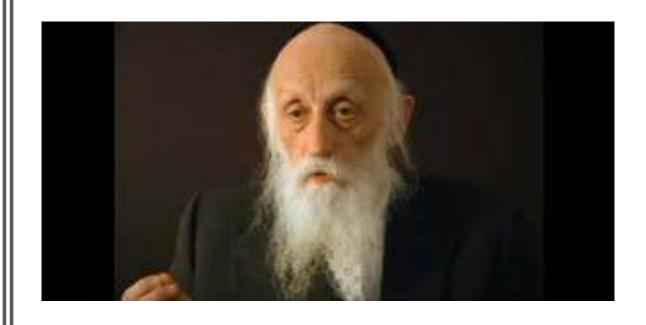
land won the U17 World Cup in India with a thrilling 5-2 final victory ${\bf r}$ Spain.



Challenge precedes progression for the long term (Rocky Road)

So... why is this happening?





https://www.youtube.com/watch?v=dcUAIpZrwog





So... in a sporting context the same applies

- Slumps and crashes (ADVERSITY) are good providing... YOU ARE PREPARED and ANTICIPATE THEM
- Conversely you may want to deliberately slow athletes up (road blocks and speed bumps... reversing an identification advantage)
- How might we be able to anticipate?

Relative Age Effect, Visualized



9 years, 6 months 0 days





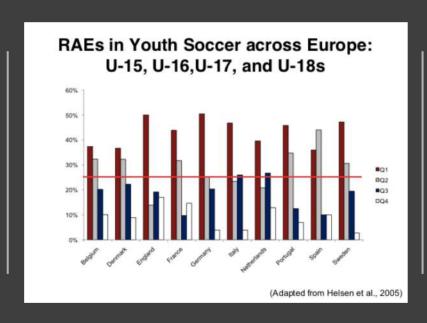




A good example of this non linear development pattern is the relative age effect



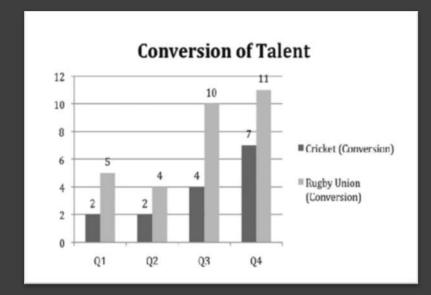


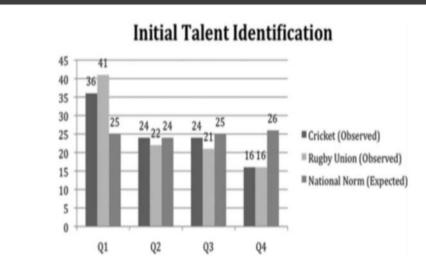




How does this play out in performance pathways?

Performance Pathway's (Rugby & Cricket)







Why is this happening?

- Developing evidence the long term affects may not be such an issue for the relatively young.
- Greater injury rates for the relatively old (Ashworth & Heynolds, 2007)
- Higher salaries (Ford & Williams, 2011)
- Education & business output attainment (Roberts & Stott, 2015; Du, et al. 2011)
- Greater psychological growth through overcoming selection bias? (Gibbs, 2011, (McCarthy et al, 2014; 2016)

The Rise of the Underdog? The Relative Age Effect Reversal Among Canadian-born NHL Hockey Players: A Reply to Nolan and Howell

> Start hard, finish better: further evidence for the reversal of the RAE advantage

Neil McCarthy, Dave Collins & David Court

Initial identification & selection bias versus the eventual confirmation of talent: evidence for the benefits of a rocky road?

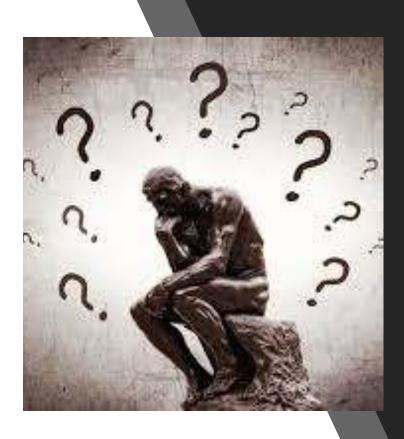
NEIL MCCARTHY1 & DAVE COLLINS3

¹Lalcester Tigers, Leicester, UK and ²University of Central Lancashire, Preston, UK

(Accepted 22 March 2014)

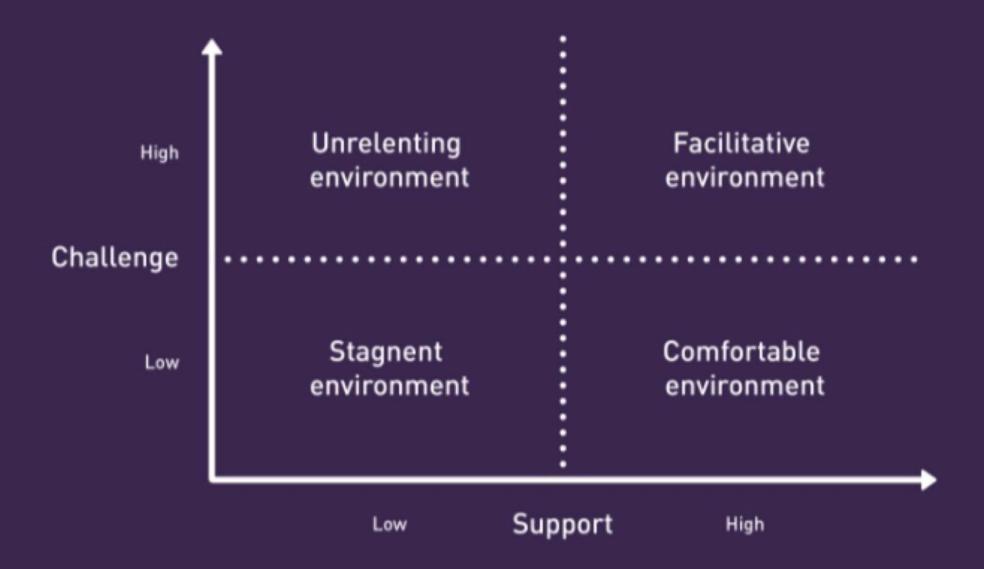
The relative age effect (RAE), whereby earlier birthdate children within a selection year are more commonly selected as talented, has been highlighted in the literature. As a consequence, these young athletes get into specialised training earlier and in greater numbers, leading (it is suggested) to a disproportionate opportunity for success. However, this disproportionality seems not to be manifest in senior teams. Accordingly, we examine the identification and conversion rates for academy regist players, examining a sample of all players passing into and either graduating, or being dismassed from, a major English regby academy. Data demonstrated a reversal of the RAE "benefit", whereby late-barth players were less likely to be selected, but more likely to achieve senior professional status. Possible reasons are explored and, on the basis of our data, we propose a psychologically based explanation of greater "growth" due to additional challenge experienced by these initially disadvantaged younger players.

Keywords: talent identification, talent development, talent pathenays

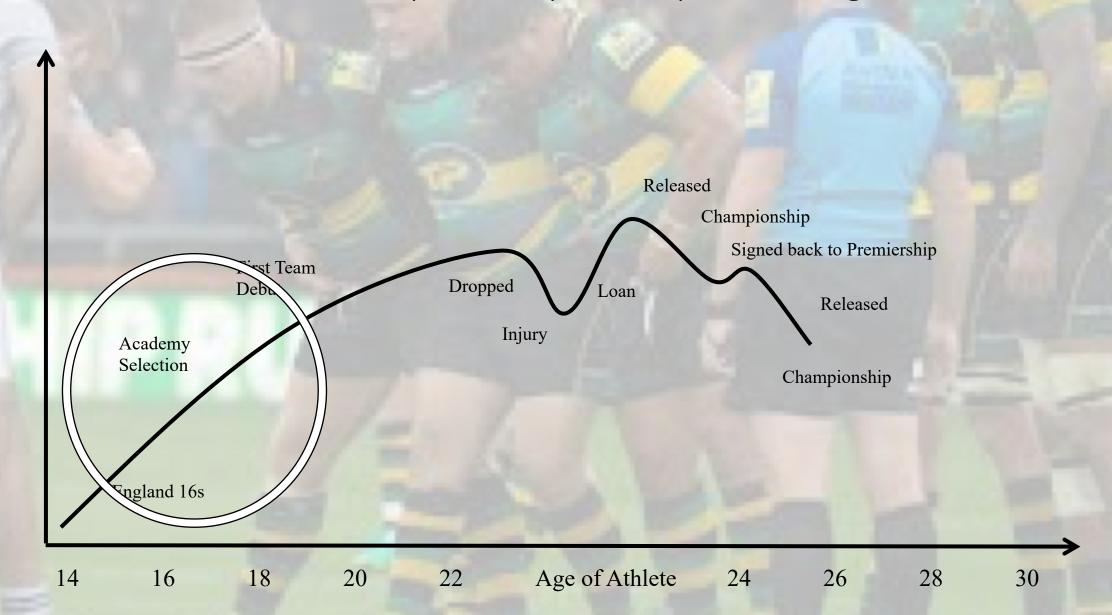


So what is this suggesting?

- Early experience
 - GB Medallists Study (Rees et al)
 - Resilience (Sarkar & Fletcher)
- Attitude
 - Growth Mindset (Dweck)
 - Grit (Duckworth)
- Skills
 - Self Control (Toering et al.)
 - Psychological characteristics of developing excellence...
 PCDEs (MacNamara et al)



So... what would you do if you had your time again?





Some examples...



orthington's

Worthington's

S JS FACILITIES & Affinit

- Physical (psycho-motor)
 - Playing up & down pathways
 - Playing out of position
- Emotional (affective)
 - Release & build expectations
 - Exposure to senior environments
 - Reaction to adversity loan club
- Cognitive
 - Presentations IDPs
 - Information overload & underload
- Consequences (not punitive)
 - High standards



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Some Key References

https://doi.org/10.3389/fpsyg.2015.02009

https://doi.org/10.3389/fpsyg.2016.01482

https://doi.org/10.1080/02640414.2015.1119297





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