









ANGORA INPARO

ALWAYS LEARNING





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-Michelangelo

ALWAYS LEARNING





Adaptable

"I found out that if you are going to win games, you better be ready to adapt"



Scotty Bowman

Embrace Change

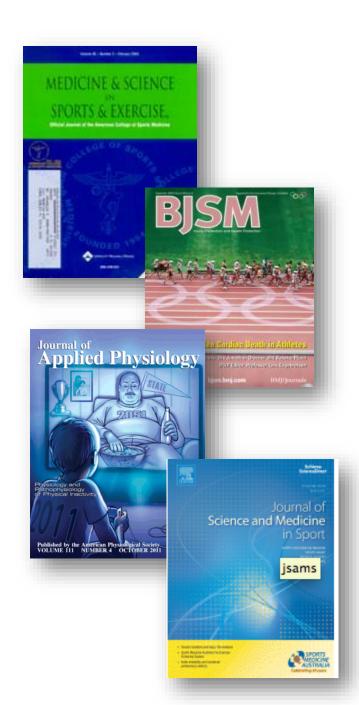


"The willingness to experiment with change may be the most essential ingredient to success at anything"

Pat Summitt

MonaghanUlster Champions 1988











Games Based Approach

Technically proficient

Tactically adaptable

Excellent problem solvers

Excellent decision makers













GO GAELIC





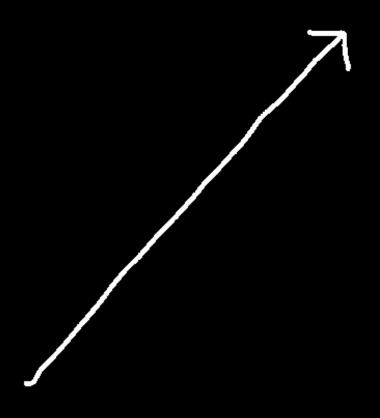








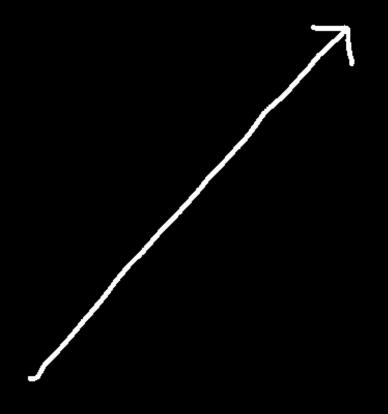
SUCCESS

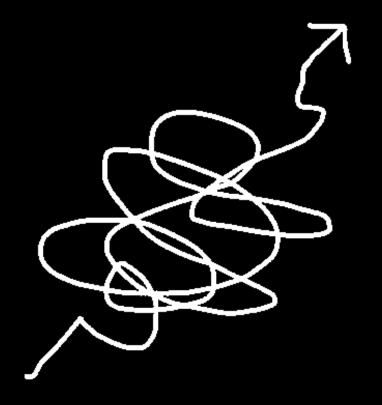


WHAT PEOPLE THINK IT LOOKS LIKE

SUCCESS

SUCCESS





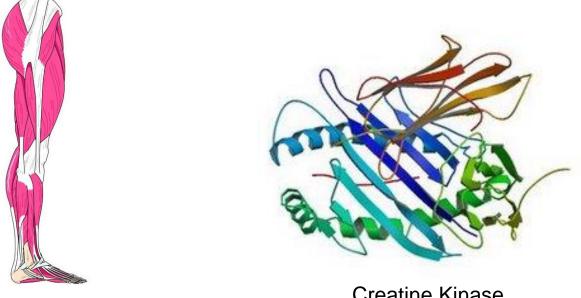
WHAT PEOPLE THINK IT LOOKS LIKE

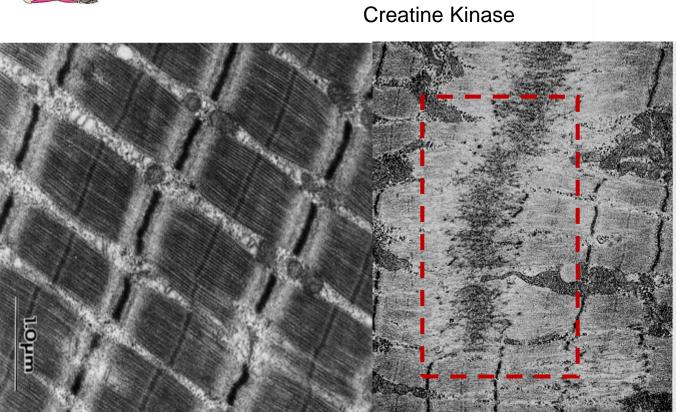
WHAT IT REALLY LOOKS LIKE

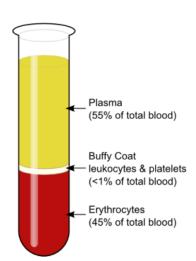


One Size DOES NOT Fit All!!

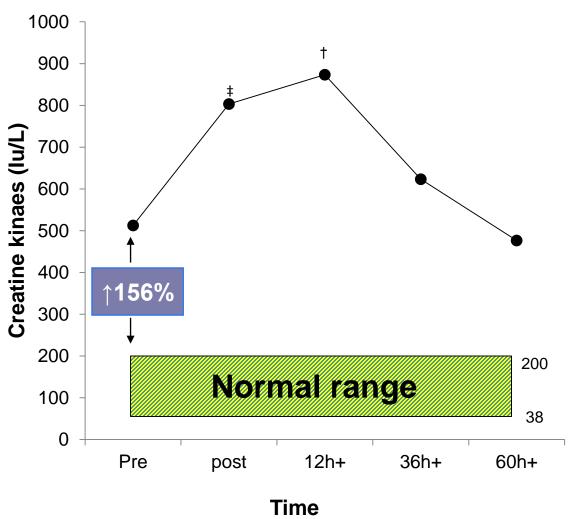


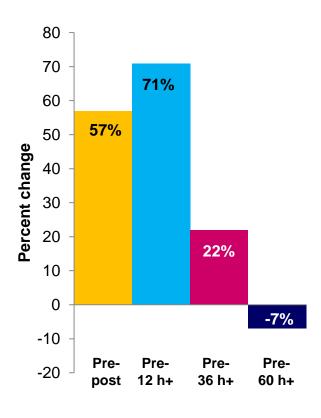




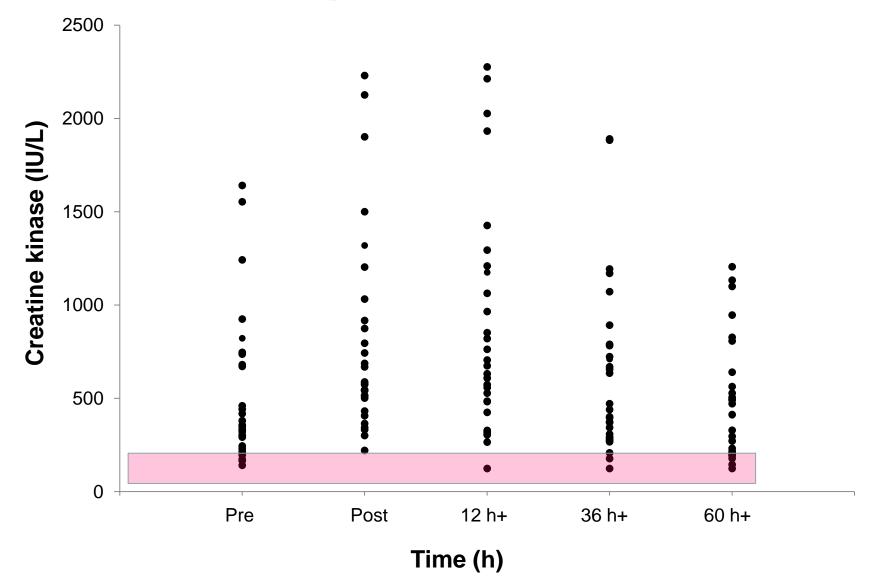


CKPre and Post Game Response

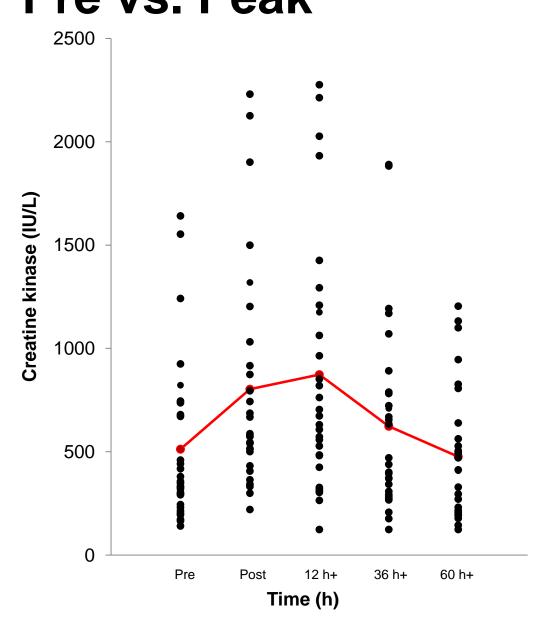


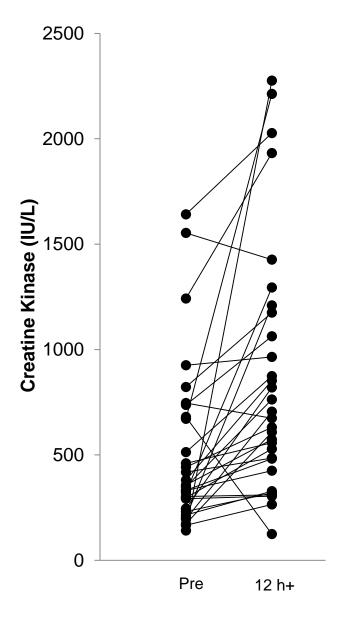


Creatine Kinase Individual Responses



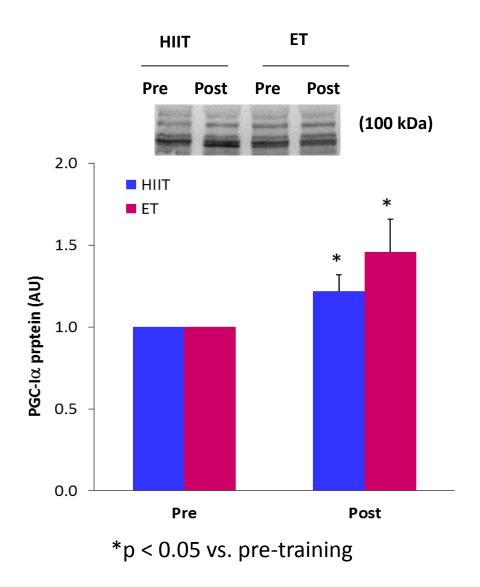
Creatine Kinase Response Pre vs. Peak

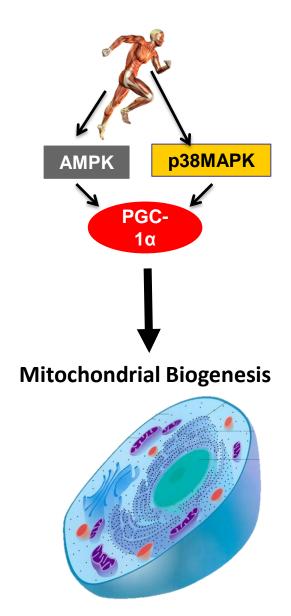




Endurance and High Intensity Interval Training

PGC-1α Protein Content











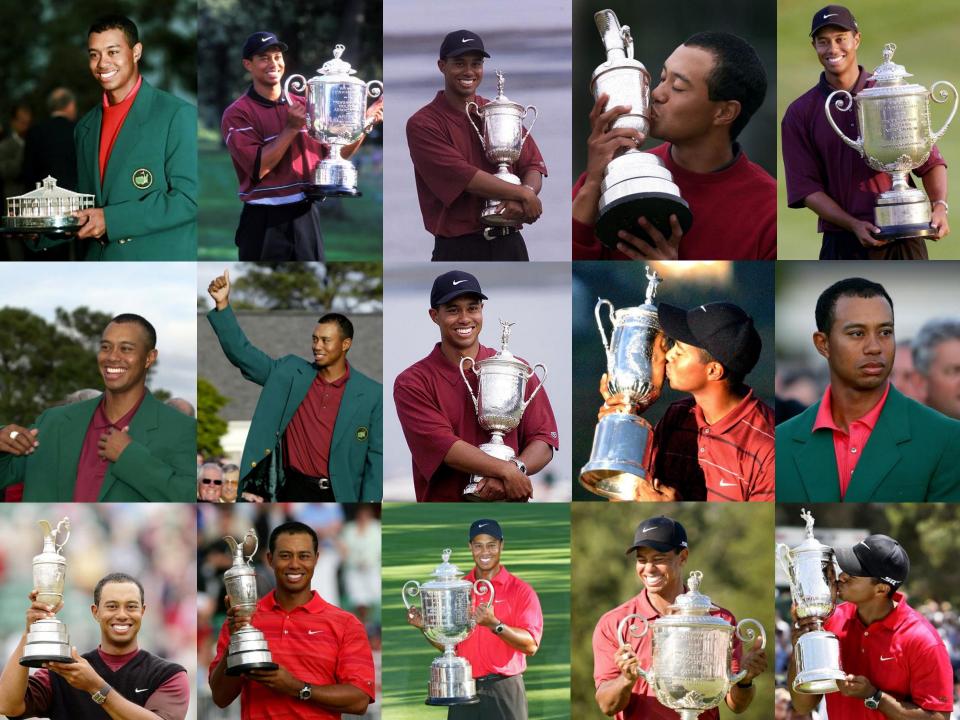


- Difficult to predict at an early age with a high degree of accuracy
- Talent ID models have low predictive value











Practice Theory of Expertise

"Children have extraordinary potential, and it is up to society to unlock it"

Laszlo Polgar (Educationalist Psychoogist)







- 1988 World U-12 champion
- 1991 Youngest (male or female) grandmaster in history (15 y and 4 months)
- World number 1 for 20 years
- Defeated Garry Kasparov, Anatoly Karpov and Viswanathan Anand
- Considered the greatest female chess player of all time





"Children have extraordinary potential, and it is up to society to unlock it"

Laszlo Polgar

 Superior ability is often taken as evidence of talent rather than lots of hidden practice



"I wasn't naturally gifted in terms of size and speed; everything I did in hockey I worked for. The highest complement that you could pay me is to say that I worked hard every day.....That' how I came to know where the puck was before it even got there"

Wayne Gretzky



"Children have extraordinary potential, and it is up to society to unlock it"

- Laszlo Polgar
 - Superior ability is often taken as evidence of talent rather than lots of hidden practice
 - There is no evidence of a fast track for high achievers
 - Opportunity is necessary for success
 - If, as a coach you believe that attaining excellence hinges on talent you are likely to give up on children if they show insignificant early promise







Technique Based Training

- Primary focus on optimising techniques and fitness
- Use of drill strategies
- Neglects the active role of the game environment which shapes movement behaviour, perception, cognition and decision making
- Assumes successful transfer to game

















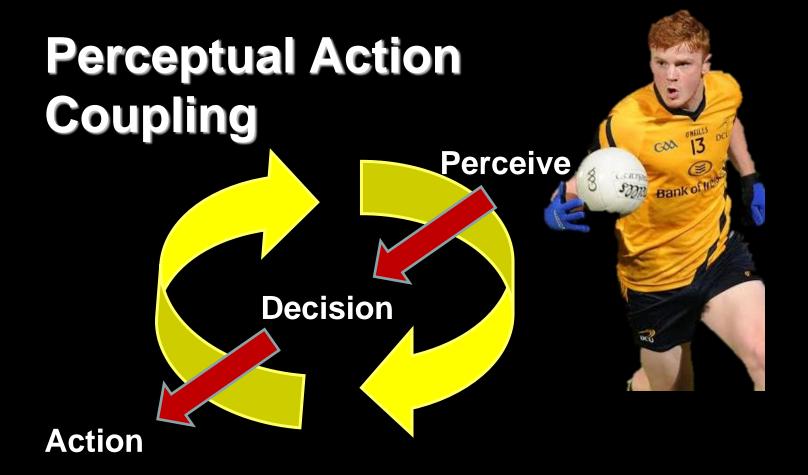
Gaelic Games Characteristics

The relation between a player and the situation around him/her is dynamic

Skills are performed under the conditions of an unpredictable constantly changing environment

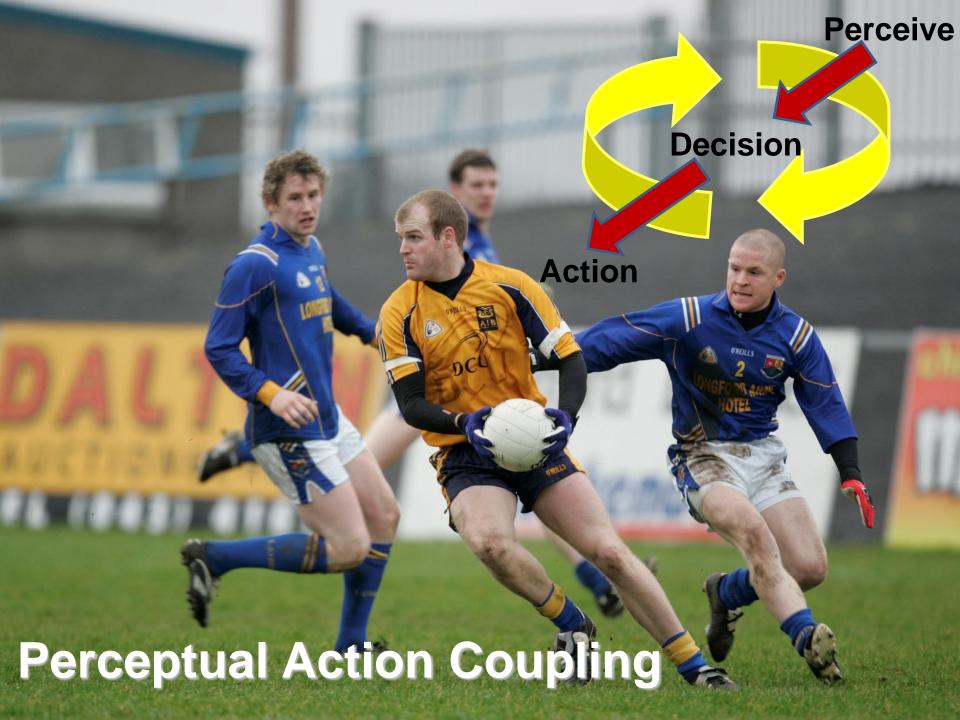
Require a considerable amount of contextual processing – game sense or "reading the game"

Players are constrained by their capacity to process information



Contextual processing

Empower players to make decisions based on spatial awareness and pattern recognition under pressure





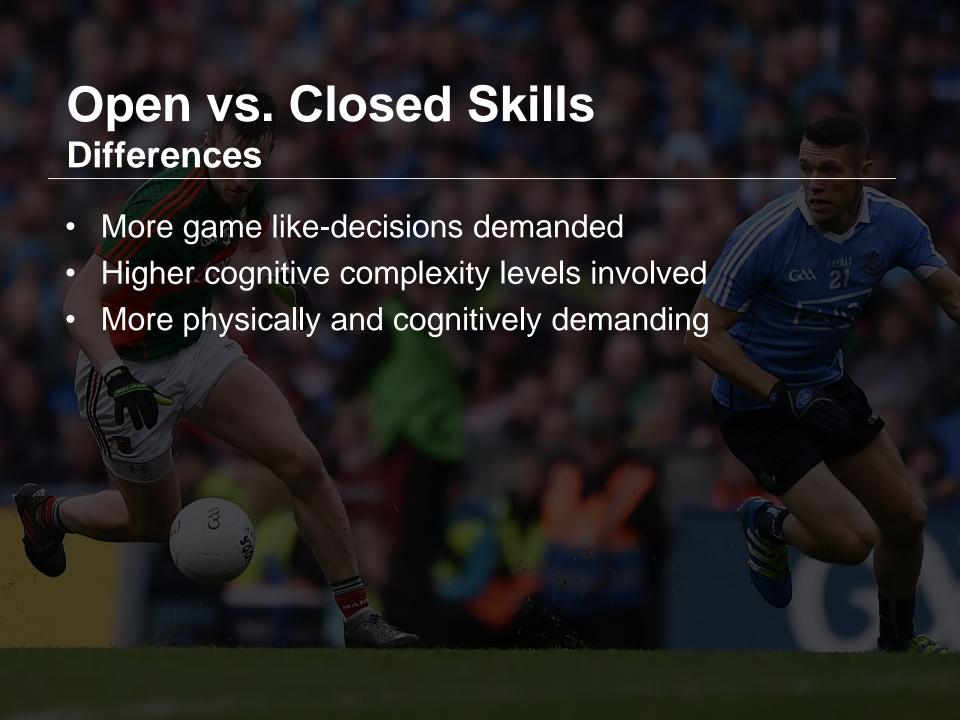


Decision Making

- Technical execution is critical to game performance
- Deciding "what to do", "how to do" and "when to do" is just as important
- Poor decision making rather than poor technical execution is more likely to be the cause of errors in games







Expert PerformerCharacteristics





Perform intuitively under pressure in competition

Recognize and recall specific patterns of play

Accurately select the correct option from a variety of alternatives

Make decisions rapidly and efficiently

How?

By extracting information from related experiences stored in long term memory (Schmidt's schema theory, 1975, 1988)

"Time Paradox"

Ice hockey frequently looks like a game of chaos. But amid the mayhem, Gretzky can discern the games underlying pattern and flow and anticipate what's going to happen faster and in more detail than anyone else in the building.



New York Times

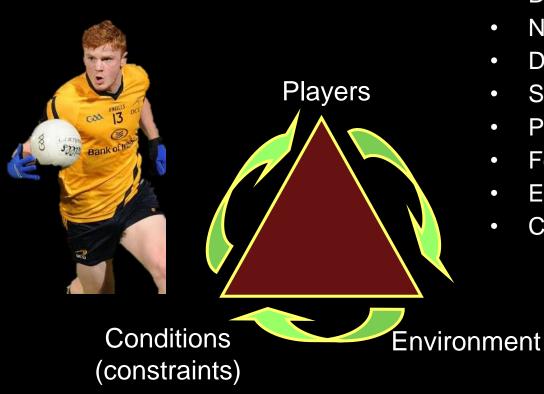




Games Based Model Overview

- Primary focus on guided discovery learning in a game context
- Conditioned games are essence of training
- The level of difficulty should be sufficient to challenge each player to seek improvement through practice
- Intrinsically motivating players are more likely to continue playing
- Long-term devotion to training and practice is a necessity for development of expertise

Games Based Method



- Duration
- Number of players on each team
- Dimensions of the playing area
- Scoring zones
- Playing rules
- Feedback
- Equipment
- Coach encouragement

Dr. Michael Whelan

dram.

Skills

- Total catches
- Chest catches
- Total passes
- Foot passes
- Pick ups
- Interceptions
- Solo hops
- Scoring attempts

- High catches
- Low catches
- Hand passes
- Punt kicks
- Blocks
- Solo taps
- Total touches

Possession Characteristics

- No of team possessions
- No of skills per possession
- No of players involved/possession
- Time per possession

U-14

15 v 15

320²m/player

7 v 7

320²m/player

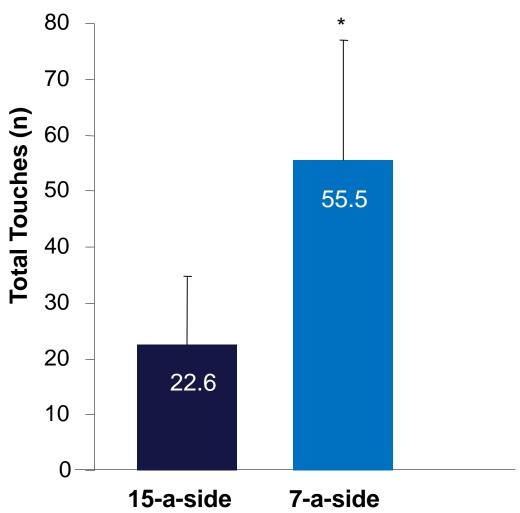
Selected skills

Possession characteristics

Enjoyment

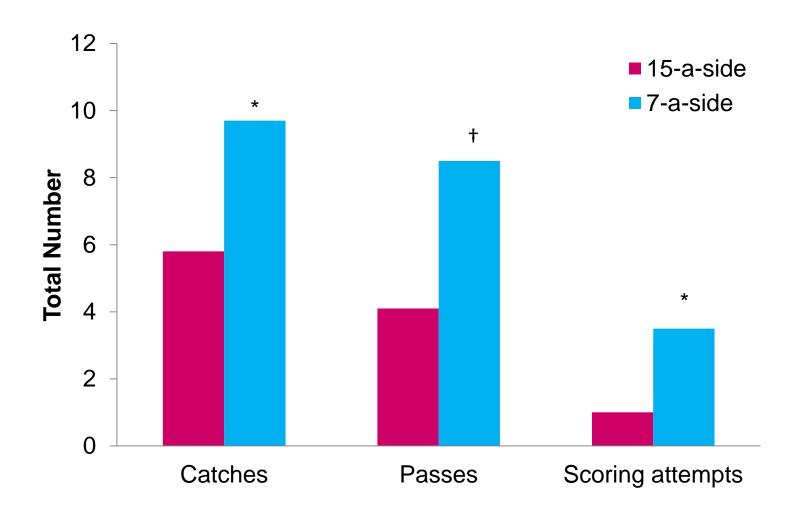
Perceived competence

Touches Per Player



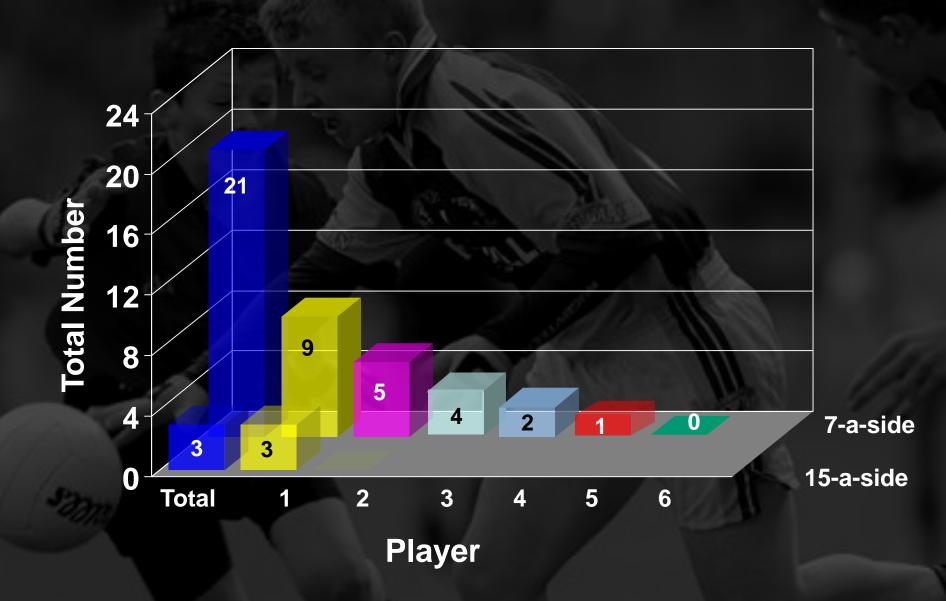


Selected Skills Performed

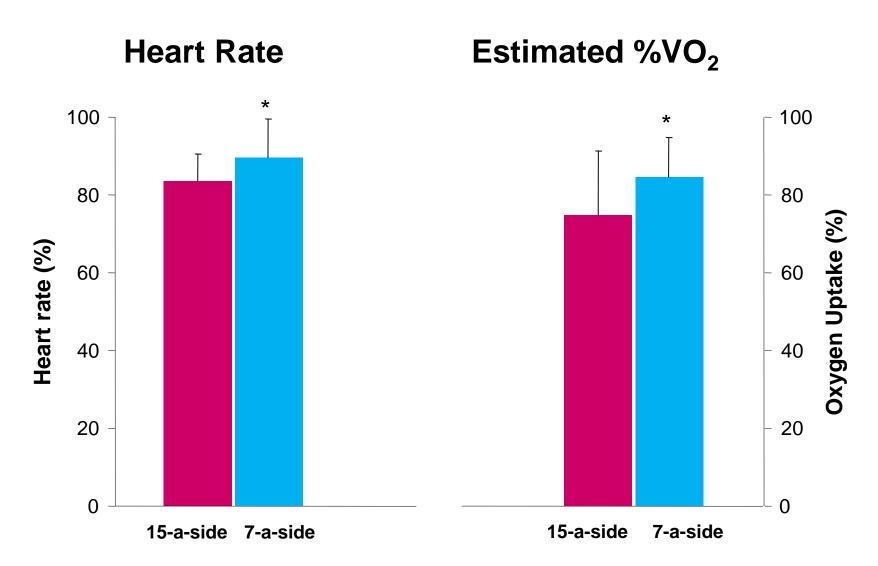


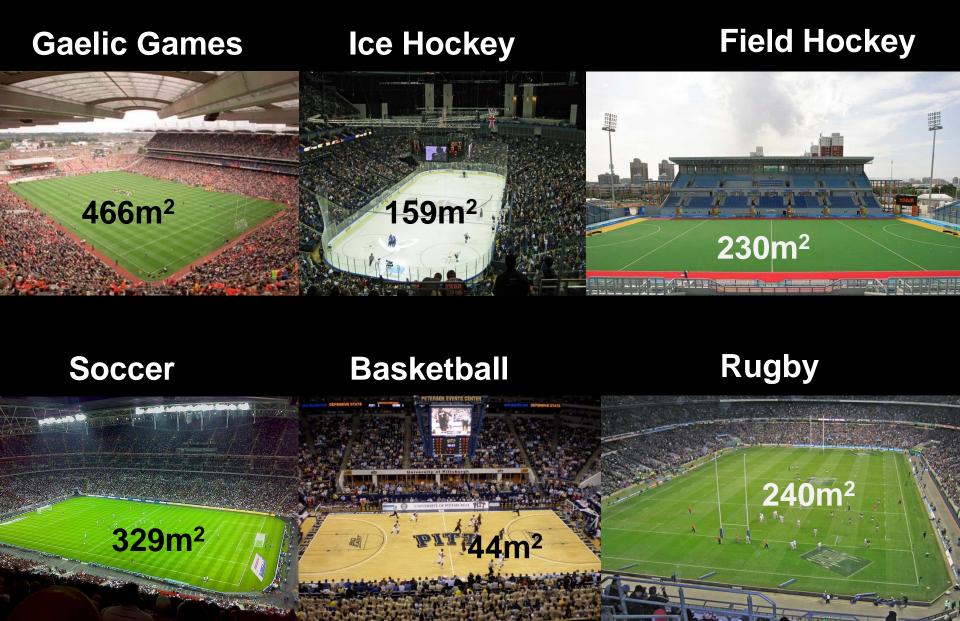
*p<0.05 vs.15-a-side †p<0.01 vs.15-a-side

Scoring Attempts



Physiological Responses

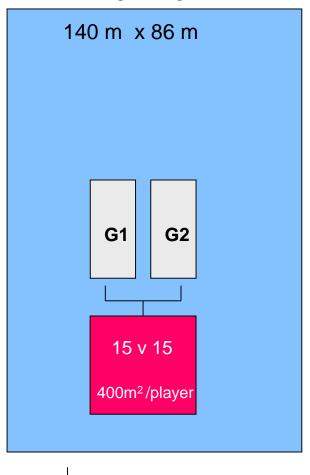


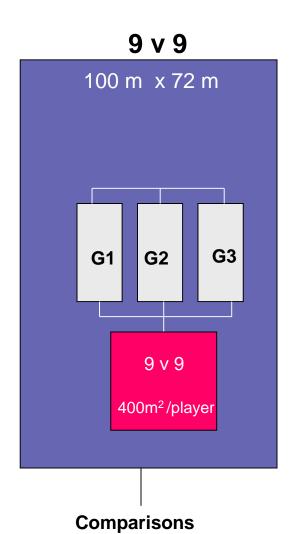


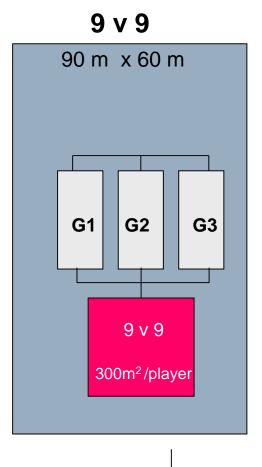
Dr. Michael Whelan

U-16

15 v 15



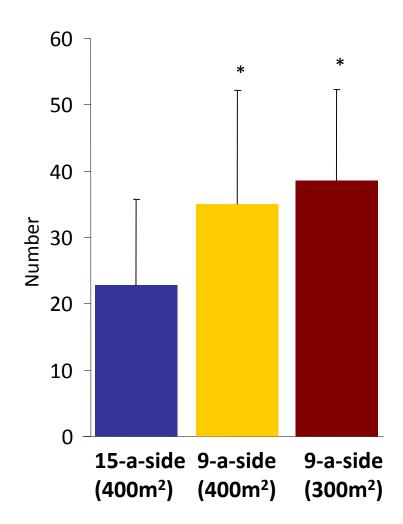




Skills Performed

	15 v 15 (400m²)	9 v 9 (400 m²)	9 v 9 (300m²)
Total catches	6.8 ± 4.5	9.4 ± 5.3†	10.6 ± 5.0‡
High catches	0.8 ± 1.0	1.1 ± 1.2	1.0 ± 1.1
Chest catches	4.1 ± 3.1	5.2 ± 3.4	6.1 ± 3.1†
Low catches	1.8 ± 1.6	3.1 ± 2.2†	3.6 ± 2.4‡
Total passes	6.7 ± 4.2	9.3 ± 4.7†	10.0 ± 4.3‡
Hand passes	3.6 ± 2.8	4.2 ± 3.0	5.4 ± 3.6†
Foot passes	3.1 ± 2.7	5.0 ± 3.4†	4.6 ± 2.4*
Punt kicks	0.1 ± 0.3	0.1 ± 0.2	0.0 ± 0.2
Scoring attempts	0.8 ± 1.1	2.0 ± 2.4†	2.2 ± 2.3‡
Pick-ups	1.9 ± 1.7	3.0 ± 2.1†	2.9 ± 2.1*
Blocks	0.2 ± 0.5	0.1 ± 0.4	0.2 ± 0.5
Intercepts	0.8 ± 1.2	1.4 ± 1.4*	1.4 ± 1.1*
Solo taps	1.5 ± 2.4	2.6 ± 3.9	2.9 ± 2.7*
Solo hops	2.2 ± 2.8	3.3 ± 3.3	3.1 ± 2.7

Total Touches

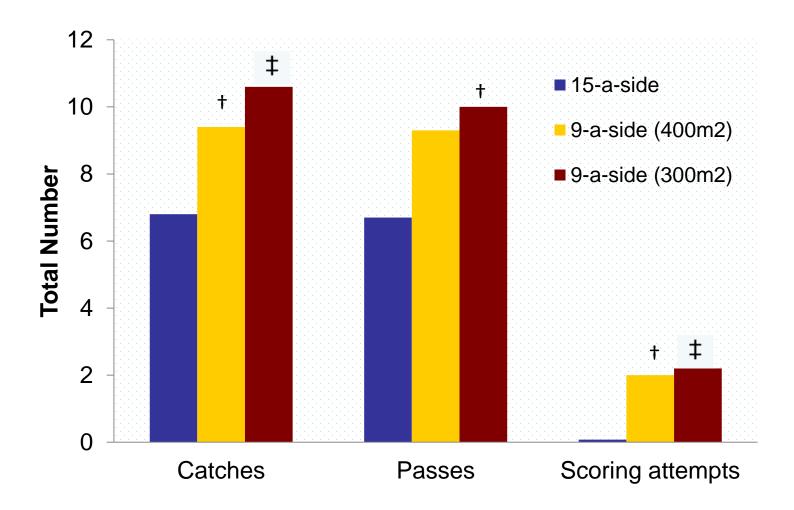


Values are mean ± SD

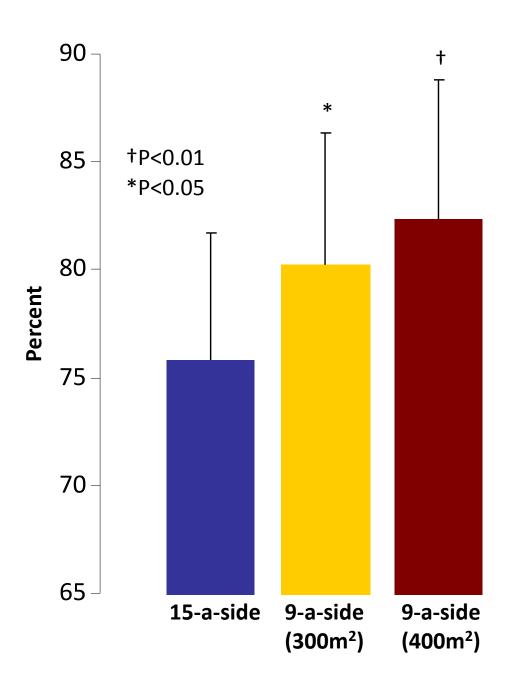
*p<0.05 vs.15-a-side , †p<0.01 vs.15-a-side ‡ p<0.01 vs.15-a-side

*p<0.001 v 15-a-side

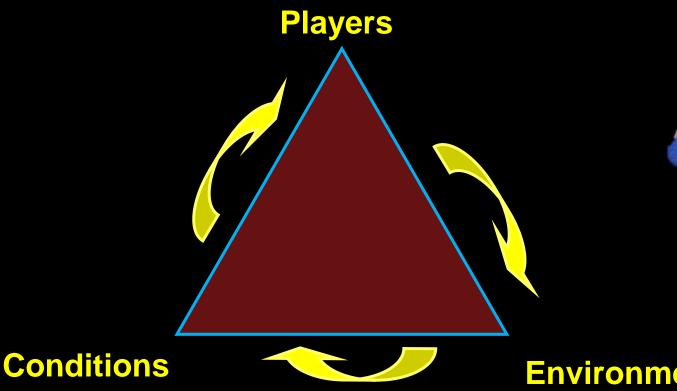
Selected Skills



^{*}p<0.05 vs.15-a-side †p<0.01 vs.15-a-side



Relative VO₂



- Game conditions (rules adopted)
- Match duration
- Number of players
- Dimensions of the playing area
- Scoring zones
- Presence of a goalkeeper
- Feedback
- Equipment
- Coach encouragement

Environment

SOM Bank of 10

Club philosophy/culture





Performance

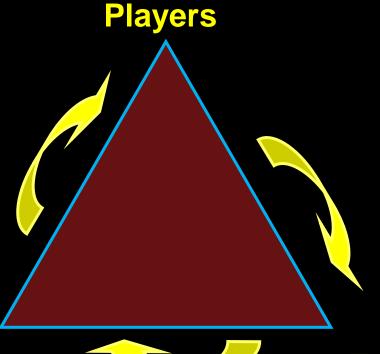
Ice-Berg Effect



Performance

- Communication
- Leadership
- Teamwork
- Goal setting
- Humility
- Time management
- Competitive nature
- Handle pressure
- Embrace changes
- Honesty

- Deal with adversity
- Competitive
- Open minded
- Willing to learn
- Self-motivated
- Loyal
- Accept criticism
- Discipline
- Adaptable





Conditions

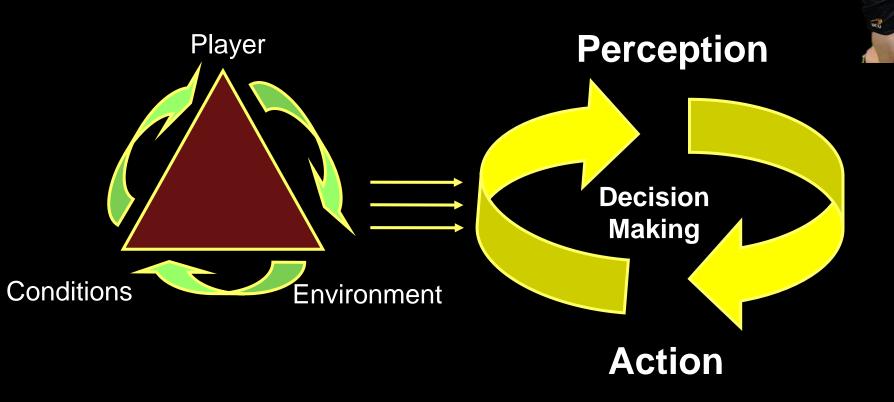
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- Match duration
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Environment

Club philosophy/culture Coaching staff



Games Based Method



Problem Solvers/Decision Makers

"I like to see players making decisions individually and collectively because it shows they're thinking like leaders"

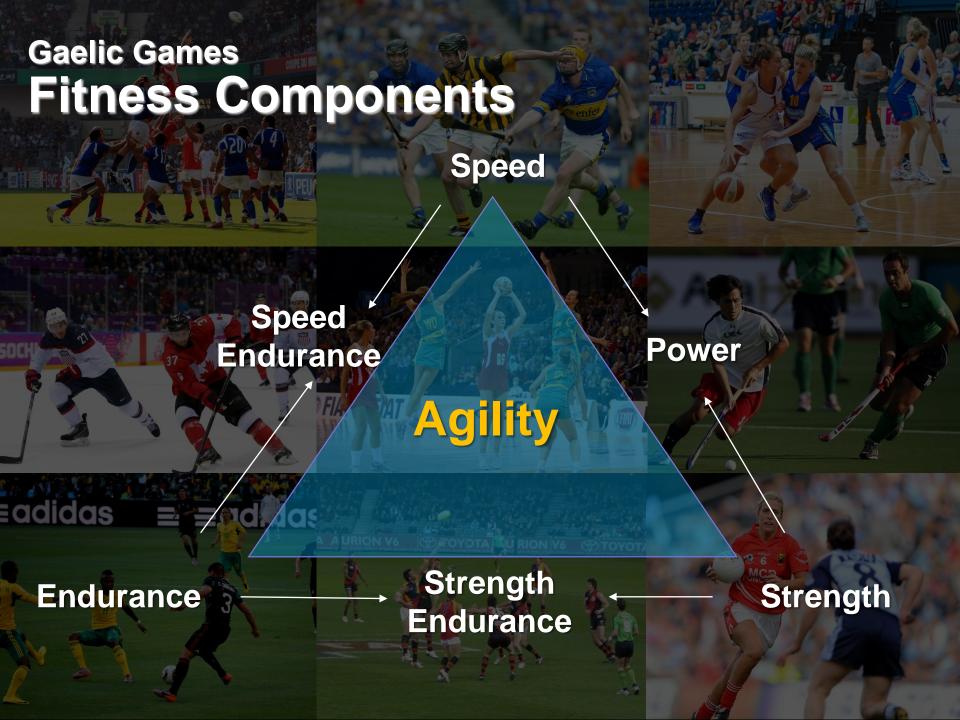
Brian Cody

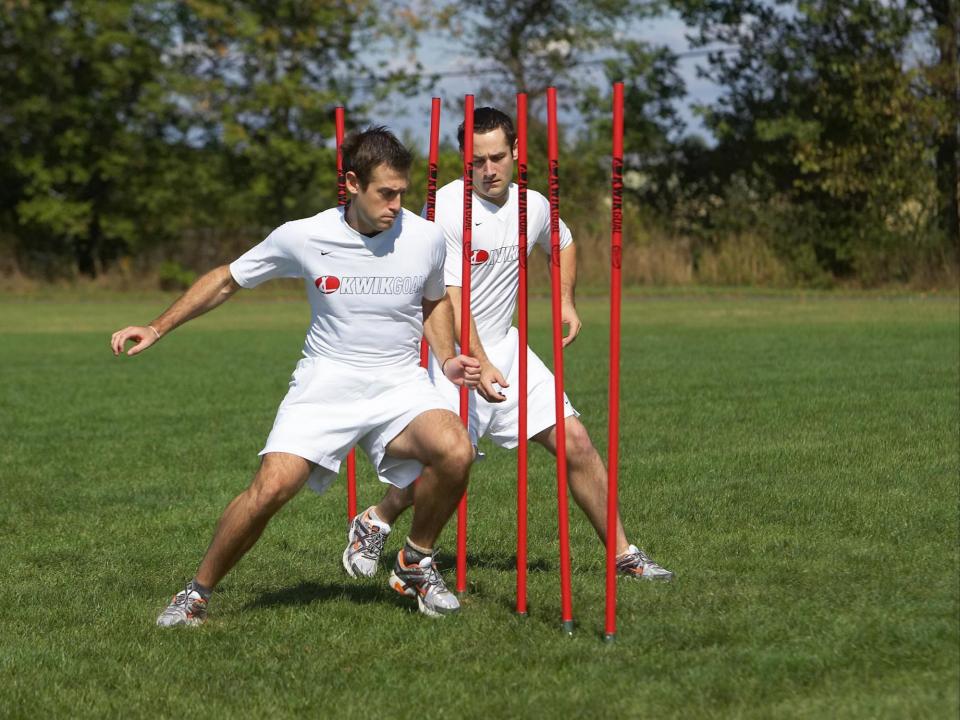




- Develops technical and tactical skills in game situations
- Provides opportunities for active problem solving
- Empowers players to make contextual decisions with respect to the changing demands of the dynamic nature of the game
- Replicates the movement demands, physiological intensity, and technical requirements of competitive match play









Agility

Preplanned



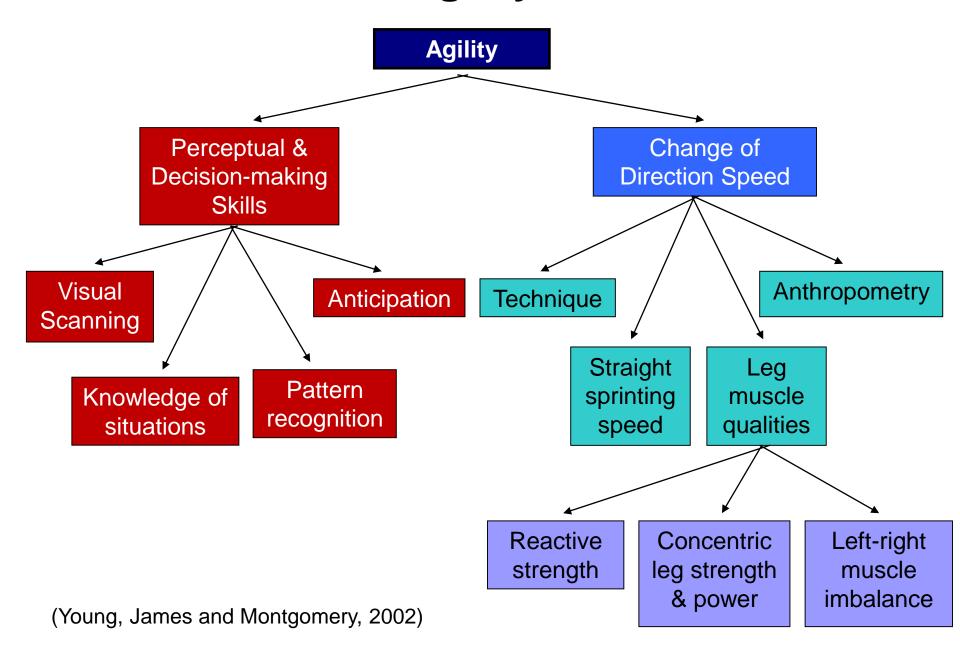
The ability to change direction and start and stop quickly (Verstegen & Marcello, 2001)

Reactive



A rapid whole-body movement with changes of velocity or direction in response to a stimulus (Sheppard & Young, 2006)

Determinants of Agility



Game Based Model Role of the Coach

- Determine how to create practice that allows players to learn implicitly
- Manipulate the constraints/conditions of practice activity to an appropriate level to cause an improvement in skill performance
- Goal orientated retain possession/offensive or defensive transition/
- Guide and shape rather than dictate practice/training
- Rely on skilful observation and player questioning "discovery learning"

Games Based Methods (Playing form)

- Warm up (dynamic & specific)
- Game
- Questions and challenges
- Back to Game
- Further Questions and challenges
- Progression of game
- Repeat above cycle
- Warm down

Progression

PS ... focus on technique-skill only when it improves the game or the ability of an individual to play the game (retention & transfer benefits)

What we say

OK, so get with a partner and practice the chest pass. Remember to keep your elbows out, and step forward as you extend your arms towards your partner. And once you can pass accurately, we will try to put it into a game



What they hear

blah blah









Irish Children Previous Generations

- Spent considerable time in unstructured activities such as "street games" or "playing on the green"
- Fun, encouraged improvisation, and nurtured the development of sporting expertise
- Majority organized without any adult involvement
- Full participation was guaranteed
- Number and skill level of the players on each team were altered to insure games were fair and competitive
- Playing area and playing rules were modified in order to create an enjoyable non-threatening environment

Game Based Coaching

"Provides for the development of game appreciation, perceptual and tactical awareness, and strategic knowledge, which contribute to the decision-making process"

Renshaw, Davids & Savelsberg, 2010

Game Based Coaching

"Facilitates the transfer of skills to matchplay and ensure greater relevance to competitive performance"

Ford, Yates, and Williams ,2010





Classroom A

Teacher knows everything.

Mistakes = :
Teacher Questions.

Kids listen.

Goal is good grades.

Memorize Facts.

Finish Pages.

One Size Fits All.

Rules enforced.

Classroom A

Teacher knows everything.

Mistakes = :
Teacher Questions.

Kids listen.

Goal is good grades.

Memorize Facts.

Finish Pages.

One Size Fits All.

Rules enforced.

Classroom B

Teacher as learner.

Mistakes = Learning

Kids Question.

Kids think.

Goal is learning.

Solve Problems.

Create.

One Size Fits EACH.

Rules unnecessary.

Classroom A

Teacher knows everything.

Mistakes = :
Teacher Questions.

Kids listen.

Goal is good grades.

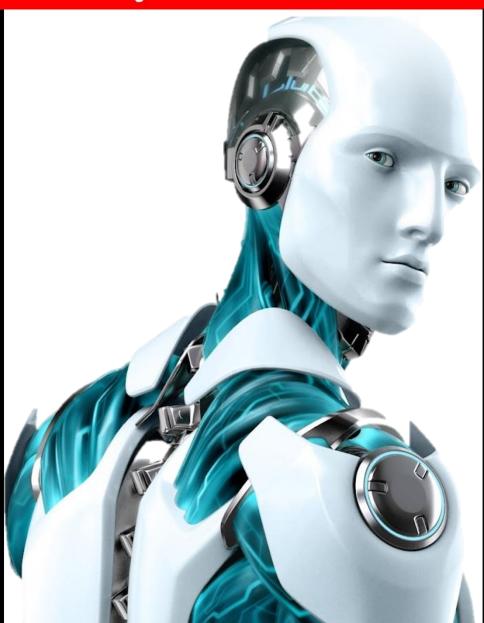
Memorize Facts.

Finish Pages.

One Size Fits All.

Rules enforced.









Classroom B

Teacher as learner.

Mistakes = Learning

Kids Question.

Kids think.

Goal is learning.

Solve Problems.

Create.

One Size Fits EACH.

Rules unnecessary.

great for Fids for

































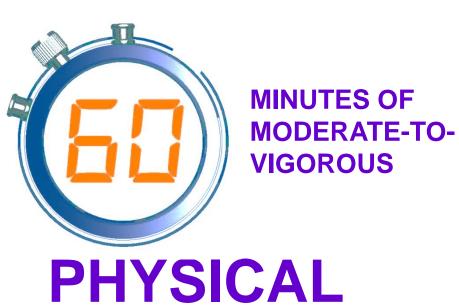






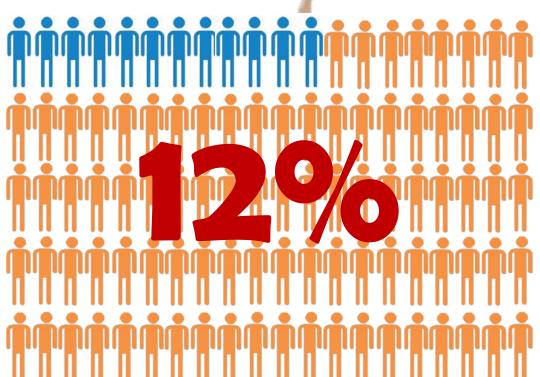


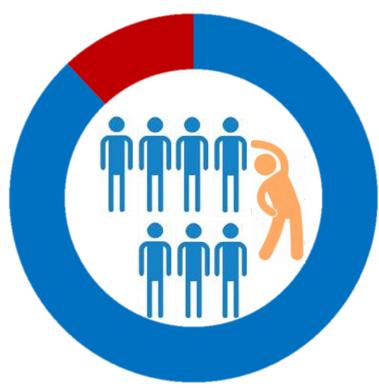
5-18 year olds Should get at least



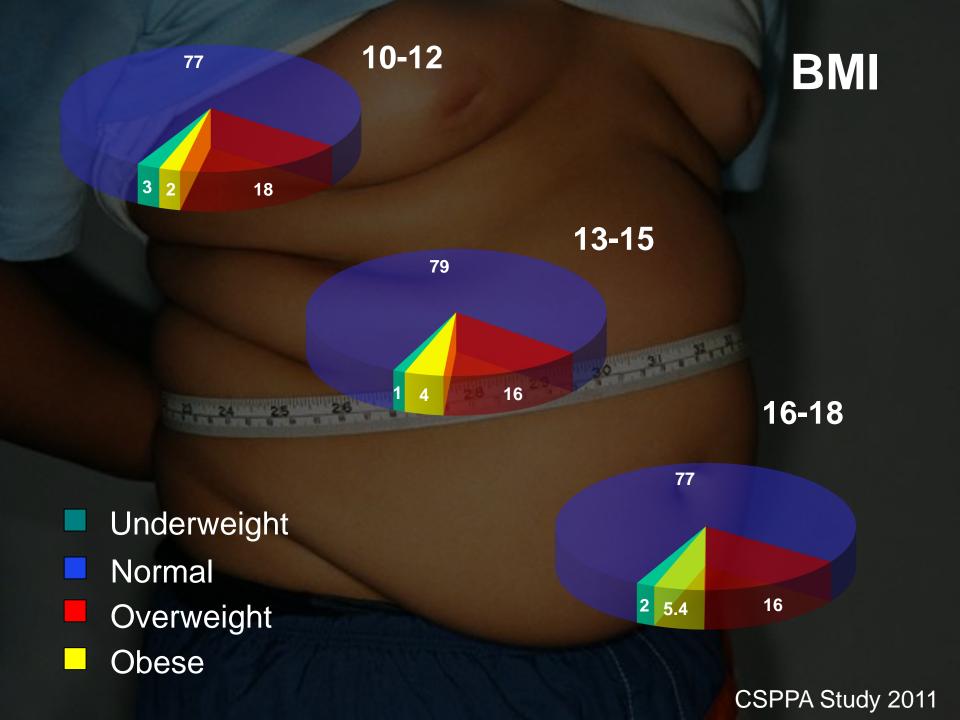
PHYSICAL ACTIVITY EVERYDAY





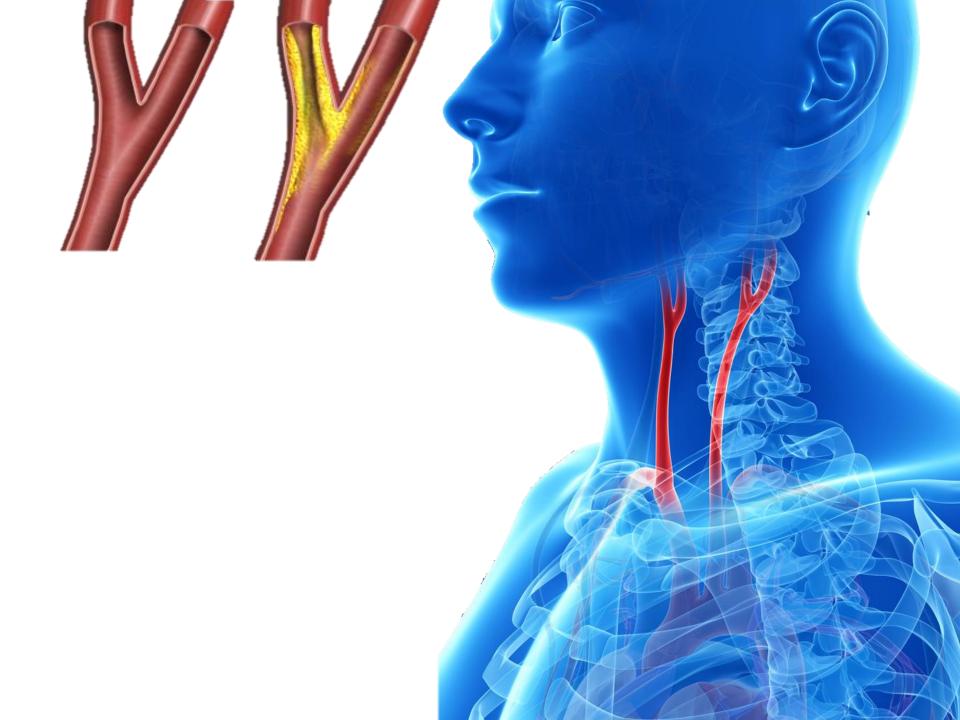


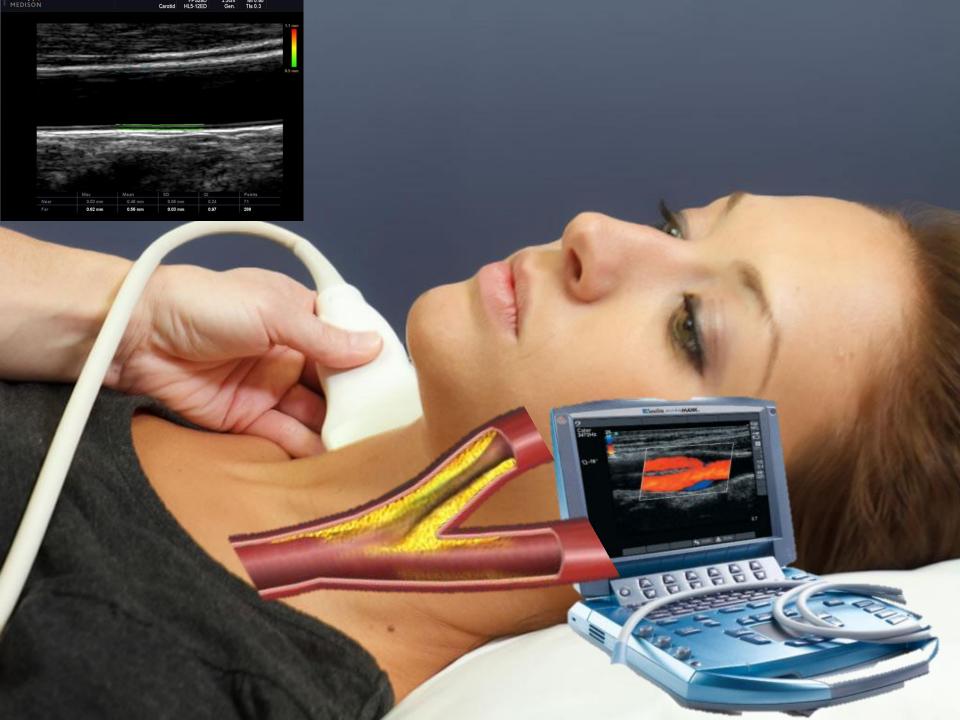
Woods et al. CSPPA, 2009



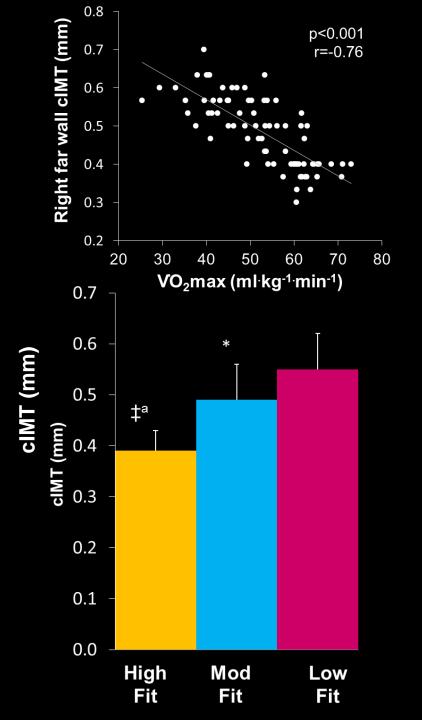


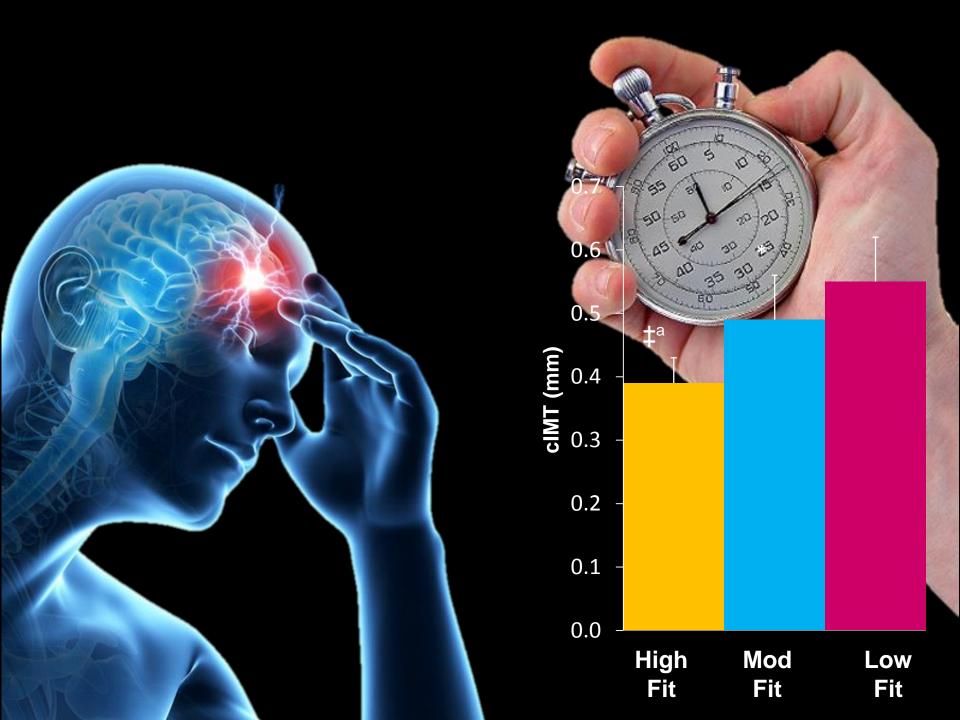


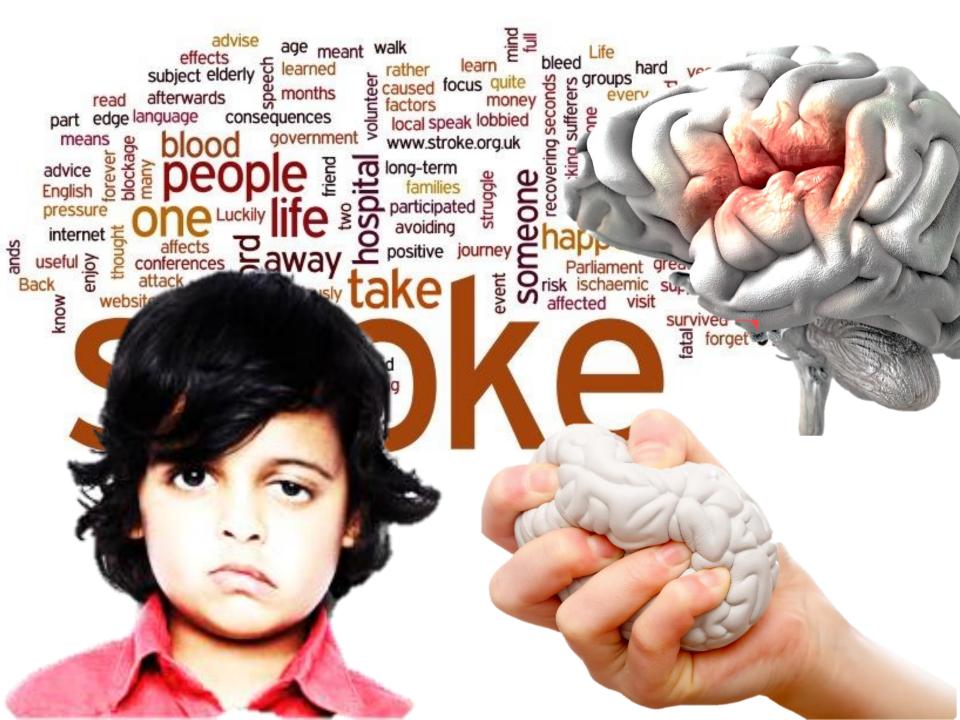




- 64% were overweight or obese
- 75% of LF had high blood pressure
- 62% were insulin resistant
- 87% had a vascular age between 55-60 years









Gaelic games may not be for everyone, but the opportunity to try should be

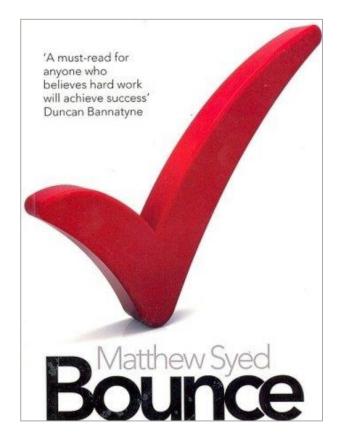


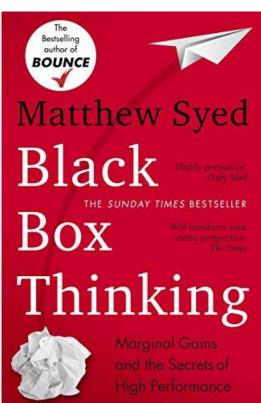


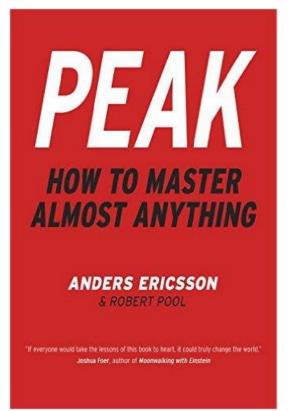


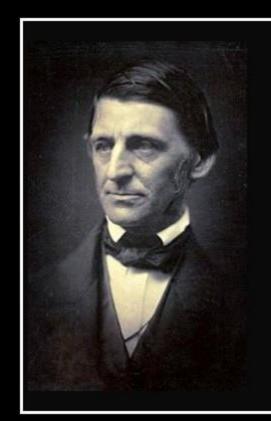


"This really is an innovative approach, but I'm afraid we can't consider it. It's never been done before."









Do not go where the path may lead, go instead where there is no path and leave a trail.

(Ralph Waldo Emerson)

Thank you