

# SELF-ESTEEM

## Physical Self and Physical activity

Antonis Hatzigeorgiadis

University of Thessaly

Department of Physical Education & Sport Sciences

## Self Esteem

### Self-esteem

Definitions

Models of Self-esteem

### Physical self-esteem

Hierarchical model of physical self-esteem

Conceptualization – Measurement

Determinants of physical self-esteem

### Exercise and self-esteem

research findings

Related theories

Theory to practice

## The Self-system

The distinction between the “Me” and the “I” – Self-concept / Self-esteem

I: the subject of self

Me: the object of self

The “I” is the element of the self that is capable of knowing and can make judgments about the “Me” of the self (James, 1892)

Self concept: the individual as known by the individual (Murphy, 1947)

“Me” as known by “I” – **descriptive**

abilities, activities, qualities, traits, values, roles adopted by the self

“I am a student” – “I am an athlete”

Self-esteem: awareness of good possessed by an individual (Campbell, 1984)

self-worth, being an OK person – **evaluative**

“I am good at maths” – “I am good at basketball”

Self-esteem: perceptions individuals have regarding their themselves, incorporating both descriptive and evaluative content (Harter, 1996)

## Self-system & Self-esteem

Individuals are absorbed in a lifelong project to validate their sense of self

In order to produce a system that carries integrity and success two basic self-directing tasks are sought

self-enhancement

making the best of its strengths and experience

self-consistency

establishing the stability and coherence of the self under external and internal threat

## Self-direction tasks

### Self-enhancement

Directing the self toward domains that yield a possibility for success and positive affect

Discounting the importance of and withdrawing from domains that tend to produce failure and negative affect

Shaping self-serving attributions – expecting success and taking credit / being surprised at failure and facing it as a learning experience

Being self-affirmative when under threat

Maximizing social approval and support

### Self-consistency

Development of feelings of unity, uniqueness, independence, and control that provide a framework on which the self can organise and make sense of its interactions

## Low vs High Self-esteem

Low compared to high

Less likely to declare strong aspects of themselves

Less likely to disconfirm negative aspects of themselves

Less well-defined self-knowledge – unsure about their self-concept

Simpler and fewer independent elements of self-concept

Fewer opportunities to self-affirm when under threat

More areas producing deficits in their self-concept

Discrepancies between competences and importance attached to them

Perceptions of conditional social support

- =>
- Deficit in self-enhancement strategies
  - Self-protective
  - Conservative in approaching achievement situations
  - Aiming in avoiding failure
  - Adopting self-serving bias

## Self-esteem

Models of self-concept / esteem

Unidimensional approach (up to early 70s)

a diverse array of self-ratings of personal characteristics (physical, social)  
global, general construct – limited

Basic Multidimensional approaches

perceived competence, moral approval, power (Epstein, 1973)

physical, moral-ethical, family, personal, social (Fitts, 1965)

academic, social, physical, occupational (Marsh & Shalveson, 1985)

Hierarchical Multidimensional models

organised at levels from general to specific

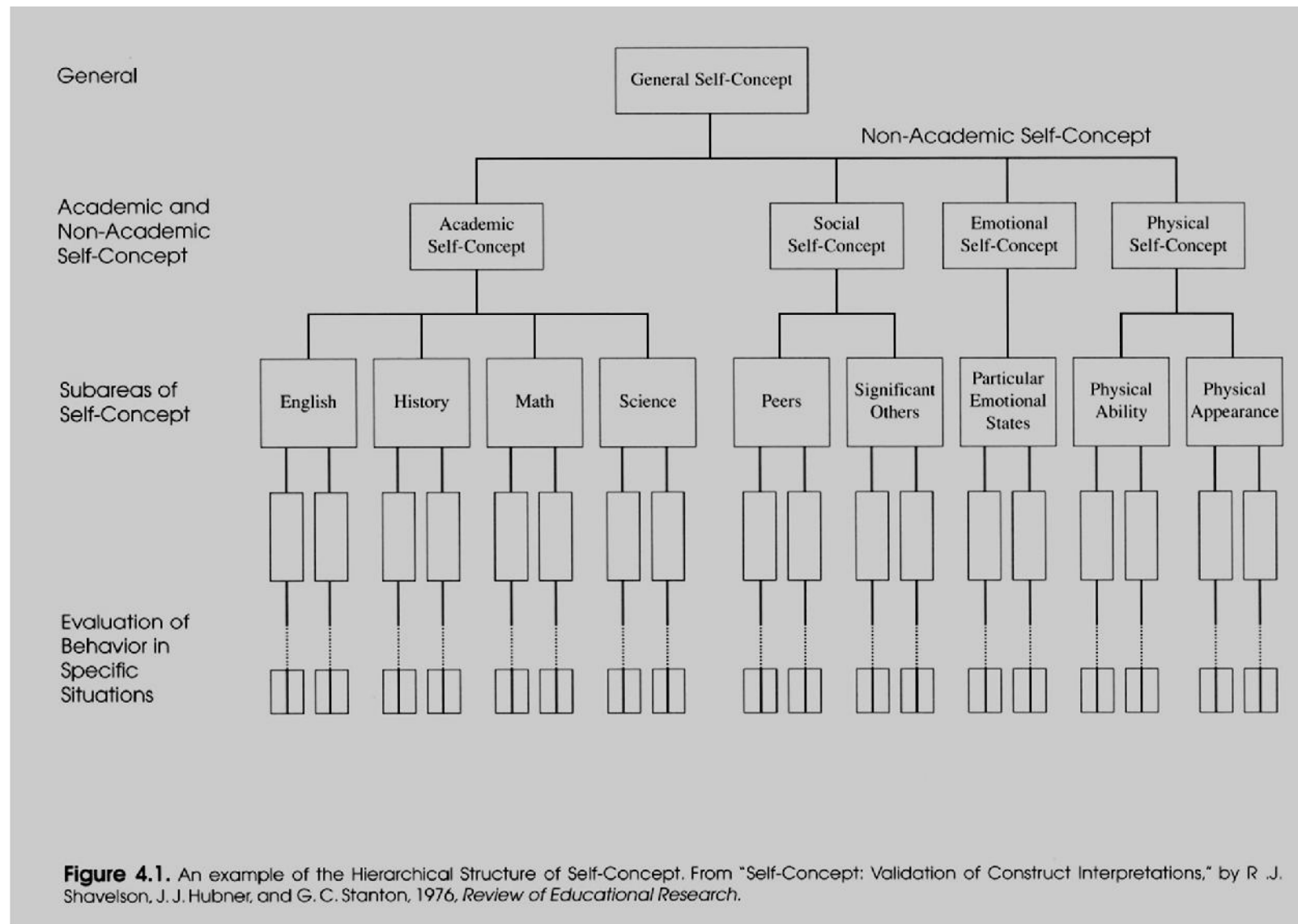
Higher levels being more stable and enduring

Lower levels being more situational and transient

=> Permit the study of single domains, while simultaneously maintaining the relevance of the domain to global self-esteem

# Self-esteem

Hierarchical structure of self-concept/esteem (Shavelson, Hubner, & Stanton, 1976)





## Conceptualisation of Self-concept / esteem

Self-Description Questionnaire I (primary school students)

Self-Description Questionnaire II (high school students)

Self-Description Questionnaire III (young adults)

(Marsh and colleagues 1984 - )

Physical abilities	(I, II, III)
Physical appearances	(I, II, III)
Peer relationships	(I)
Opposite-sex relationships	(II, III)
Same-sex relationships	(II, III)
Parent relationships	(I, II, III)
Honesty/Trustworthiness	(II, III)
Spiritual values/religion	(III)
Emotional stability	(II, III)
Verbal/reading	(I, II, II)
Mathematic	(I, II, III)
Problem solving	(III)
General school	(I, II, III)
General self-esteem	(I, II, III)

## Conceptualization of Self-concept / esteem

Self Perception Profile for Children (Harter, 1985)

Academic

Social

Behavioural conduct

Athletic ability

Appearance

- Adolescents (Harter, 1988)
- College students (Neeman & Harter, 1986)
- Adults (Messer & Harter, 1986)

## Physical Self-concept / esteem

In Western societies the body, its appearance, and its capabilities has become central with regard to the private and public self

Multidimensional models have placed considerable significance on the physical aspects of oneself and their role in shaping global self-esteem

The physical self is becoming increasingly critical to human functioning

Physical Appearance

Physical Competences

## Conceptualization of Physical Self-concept / esteem

Physical Self Perception Profile - PSPP (Fox & Corbin, 1989)

Model of Physical Self-Esteem/Worth, based on the proposed structure of Marsh et al. (1985) and the profile approach of Harter (1988)

General Physical Self-Worth

Sport competence

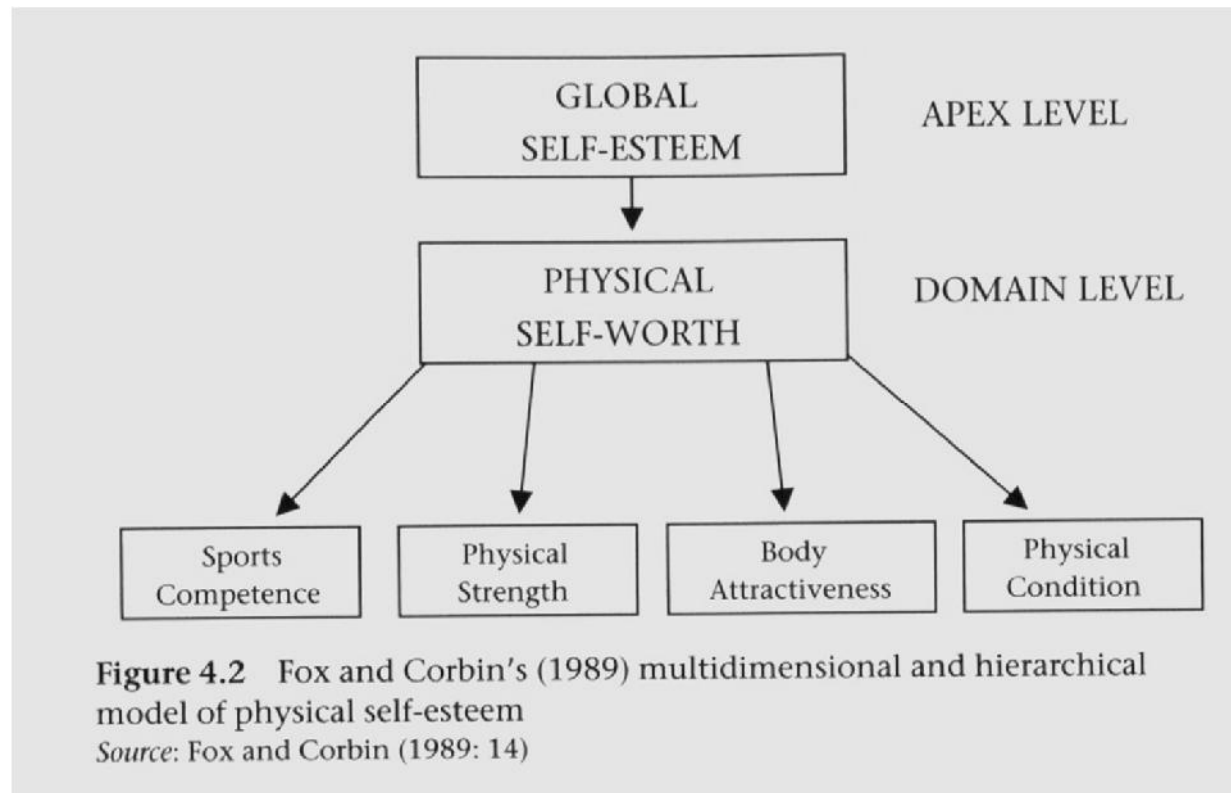
Physical conditioning

Body attractiveness

Physical Strength

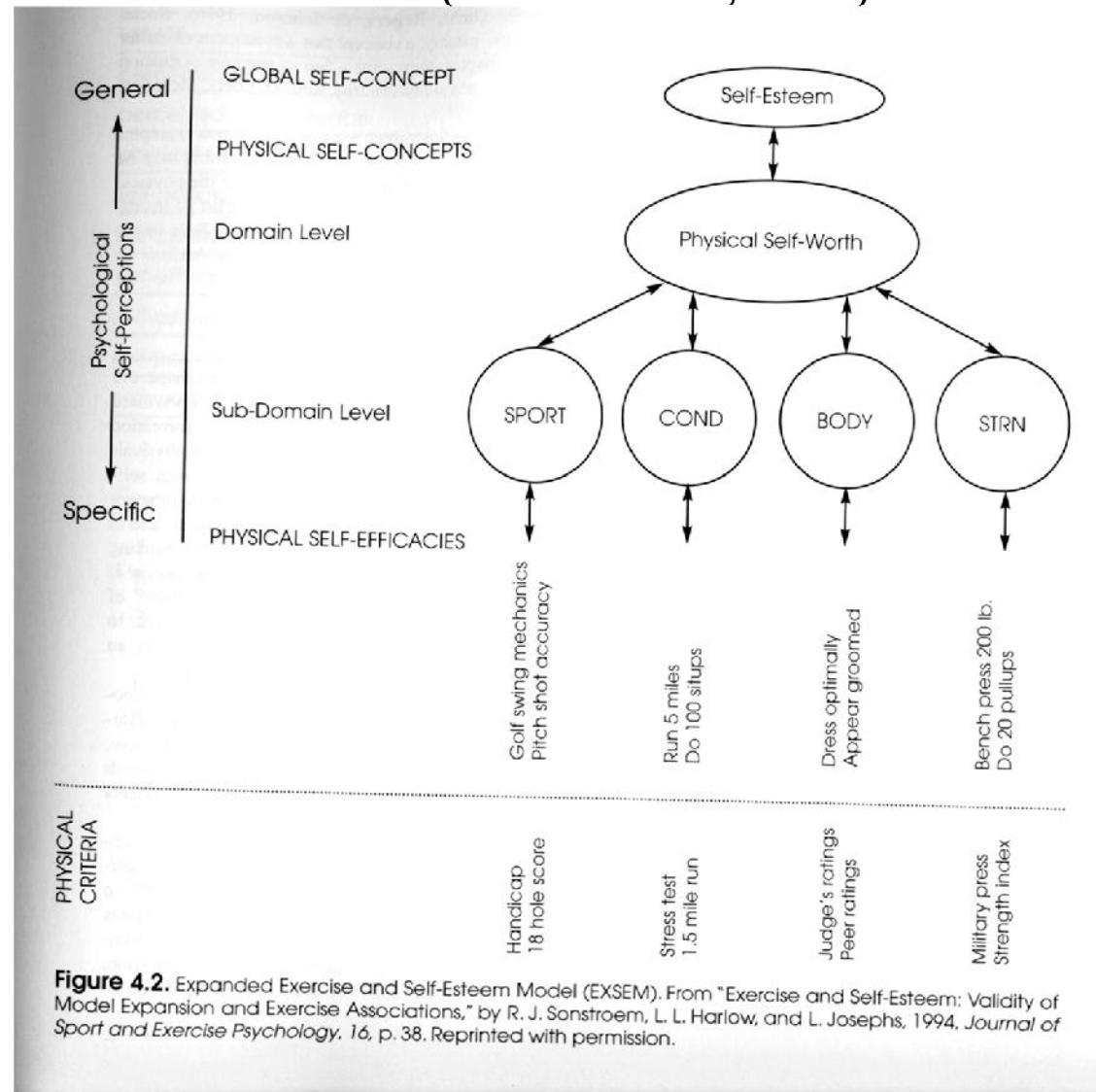
## Physical Self-concept / esteem

PSPP (Fox & Corbin, 1989)



# Physical Self-concept / esteem

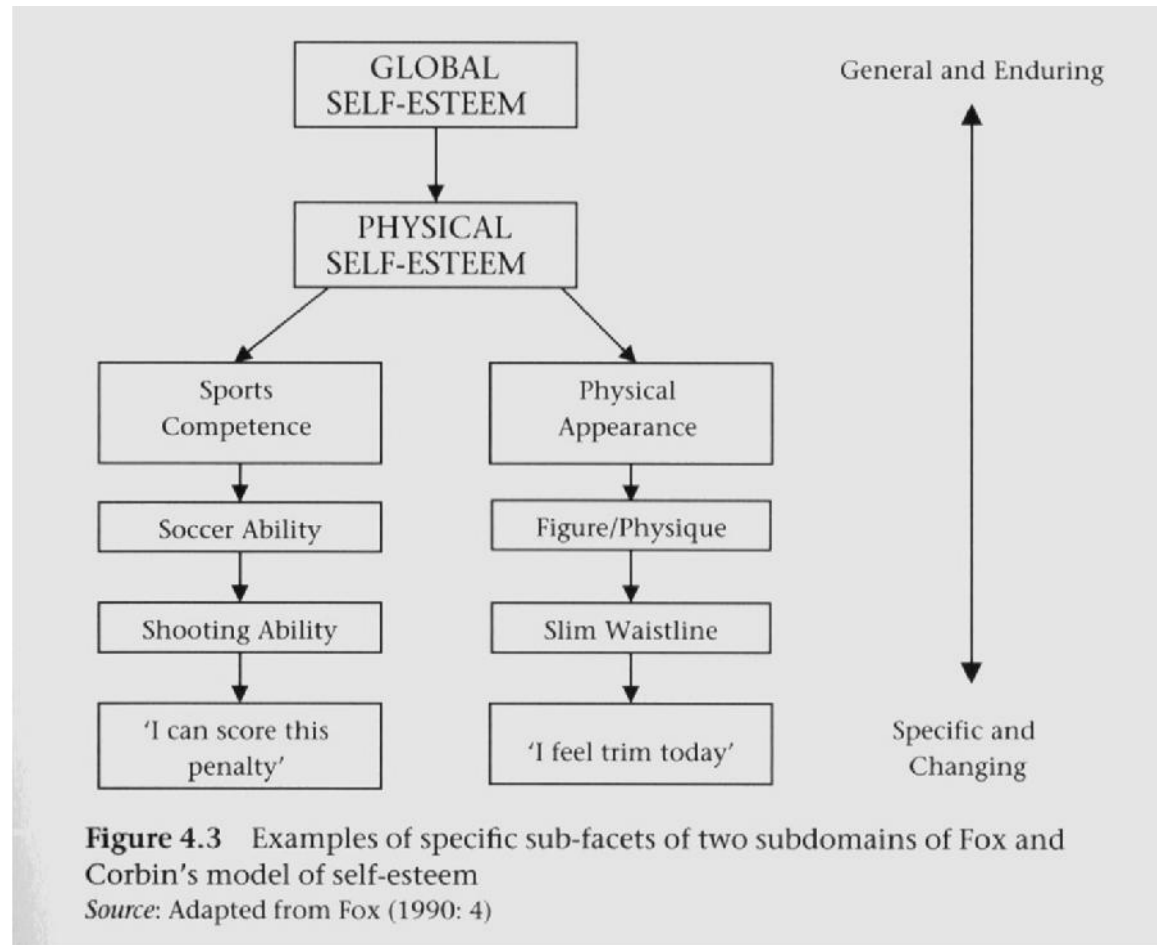
## PSPP (Fox & Corbin, 1989)



**Figure 4.2.** Expanded Exercise and Self-Esteem Model (EXSEM). From "Exercise and Self-Esteem: Validity of Model Expansion and Exercise Associations," by R. J. Sonstroem, L. L. Harlow, and L. Josephs, 1994, *Journal of Sport and Exercise Psychology*, 16, p. 38. Reprinted with permission.

## Physical Self-concept / esteem

Fox, 1990



# Physical Self-esteem

## PSPP validation (Hagger et al., 2005)

Method

Sample

2,949 students

1,551 girls

1,398 boys

914 seventh-grade

1,013 eighth-grade

1,042 ninth-grade

Mean age = 12.93

Instruments

PSPP-children (Whitehead, 1995)

Global Self-esteem (Harter, 1988)

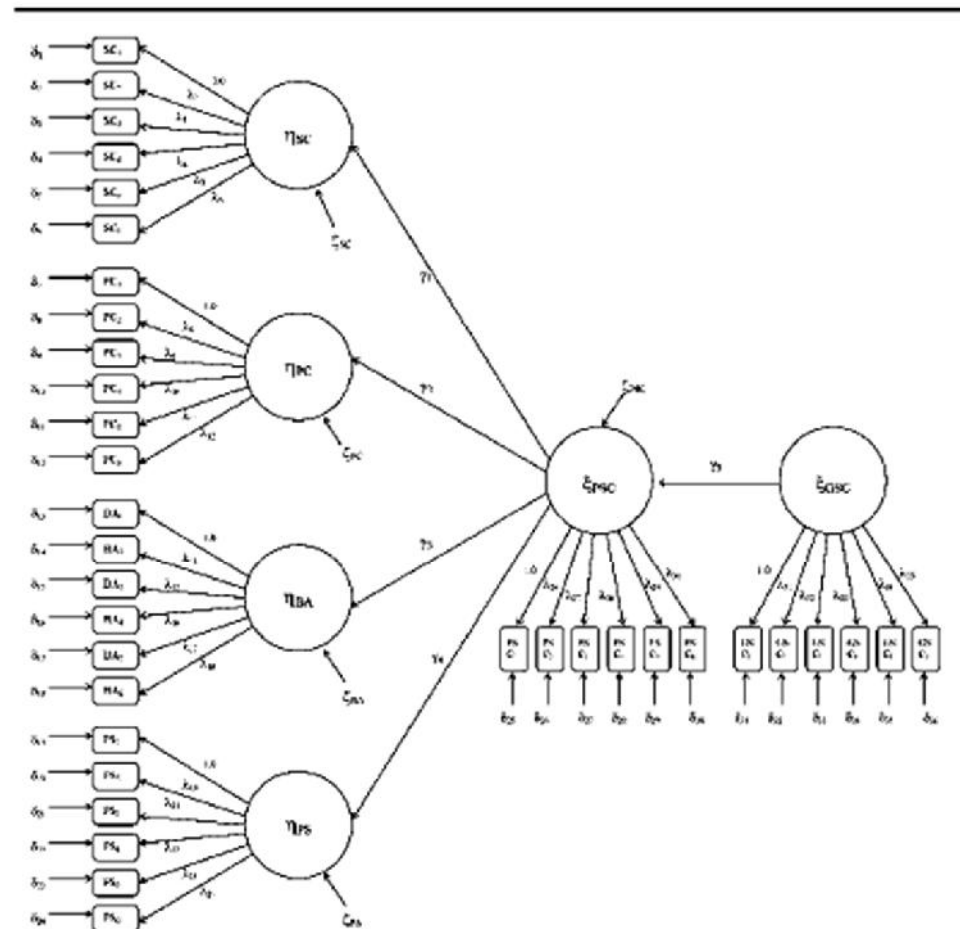


Figure 1. Structural equation model showing relations between the four physical self-perception subdomain factors of sports competence (SC), physical conditioning (PC), body attractiveness (BA), and physical strength (PS), the general physical self-concept (PSC) factor at the domain level, and the global self-concept (GSC) factor at the superordinate level.



## Physical Self-esteem PSPP validation (Hagger et al., 2005)

Parameter	Girls	Boys	Seventh Grade	Eighth Grade	Ninth Grade
Physical self-concept → sports competence	.863	.902	.914	.825	.874
Physical self-concept → physical condition	.822	.828	.858	.815	.856
Physical self-concept → body attractiveness	.826	.837	.901	.845	.821
Physical self-concept → strength	.597	.738	.808	.620	.674
Global self-concept → physical self-concept	.866	.861	.864	.899	.781

*Note.* C-PSPP = Physical Self-Perception Profile for Children.

## Physical Self-esteem PSPP sex and age differences (Hagger et al., 2005)

	Gender		Grade		
	Girls <sup>a</sup>	Boys	Seventh Grade <sup>a</sup>	Eighth Grade	Ninth Grade
$\xi_{SC}$	.000	.280 <sup>b</sup>	.000	-.011	-.005
$\xi_{PC}$	.000	.181 <sup>b</sup>	.000	-.041	-.017
$\xi_{BA}$	.000	.243 <sup>b</sup>	.000	-.044	-.084 <sup>c</sup>
$\xi_{PS}$	.000	.223 <sup>b</sup>	.000	-.035	-.083 <sup>c</sup>
$\xi_{PSC}$	.000	.238 <sup>b</sup>	.000	-.070 <sup>c</sup>	-.095 <sup>c</sup>
$\xi_{GSC}$	.000	.195 <sup>b</sup>	.000	-.063 <sup>c</sup>	-.038

*Note.* C-PSPP = Physical Self-Perception Profile for Children; SC = sports competence; PC = physical conditioning; BA = body attractiveness; PS = physical strength; PSC = general physical self-concept; GSC = global self-concept.

a. Latent factor mean fixed to zero to act as reference group.

b. Statistically significant mean difference compared with girls sample ( $p < .05$ ).

c. Statistically significant mean difference compared with seventh-grade sample ( $p < .05$ ). There were no statistically significant mean differences in factor means across the eighth- and ninth-grade samples.

## Conceptualization of Physical Self-concept / esteem

Physical Self Description Questionnaire (PSDQ, Marsh & Redmayne, 1994)

Esteem

Global Physical Self Concept

Appearance

Strength

Condition / Endurance

Flexibility

Health

Coordination

Physical Activity

Body Fat

Sport

## Conceptualization of Physical Self-concept / esteem PSDQ validation (Marsh & Redmayne, 1994)

Method

Sample

105 female students

13-14 years old

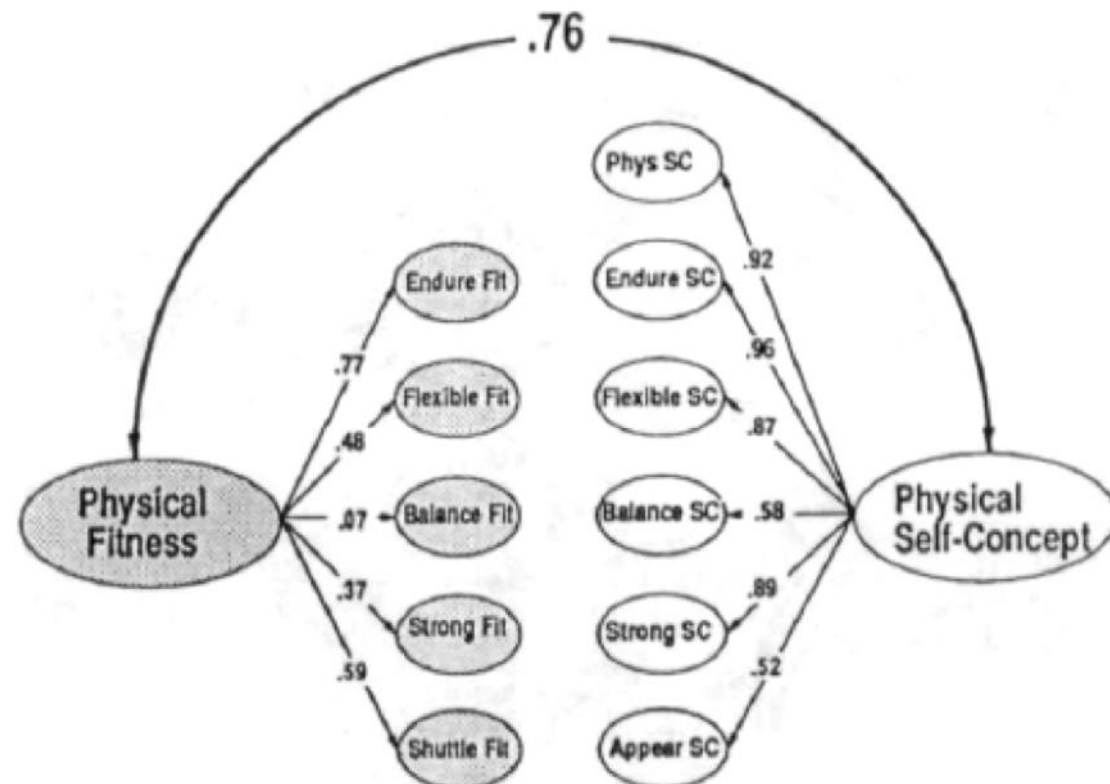
Instruments

Selected scales from the SDQ  
(Marsh, 1990)

Physical tests

Basic Fitness Tests  
(Fleishman 1964)

12-Minute Run Test  
(Cooper, 1968)



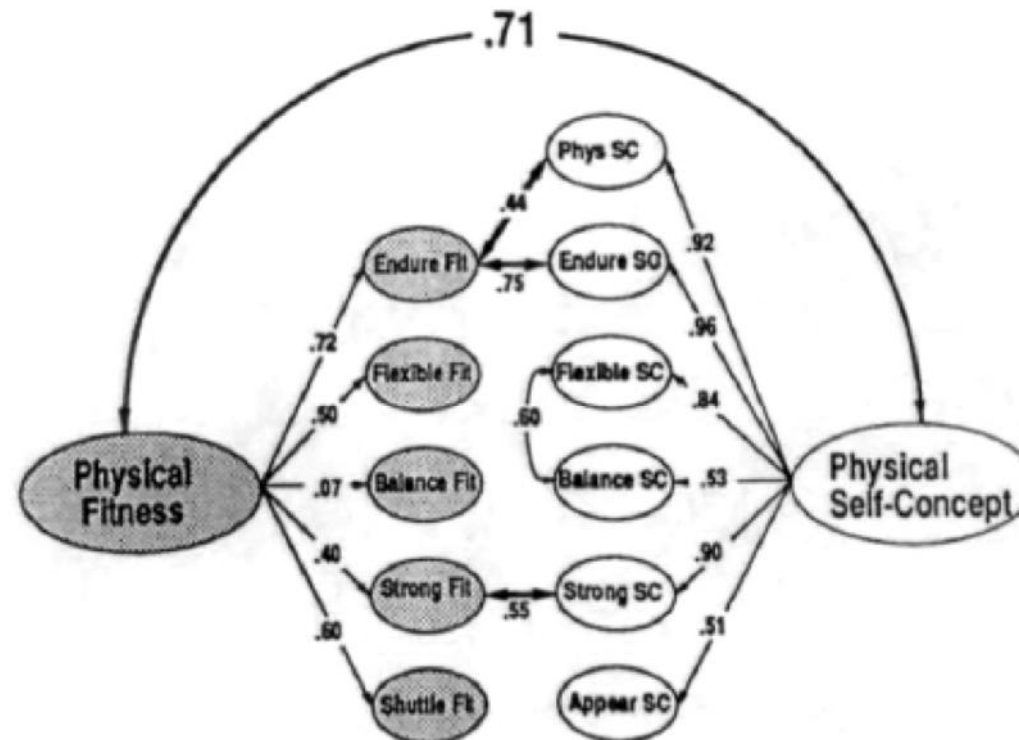
Model A:  $\chi^2(396) = 649$ , RNI = .883, TLI = .872

## Conceptualization of Physical Self-concept / esteem PSDQ validation (Marsh & Redmayne, 1994)



Model B:  $\chi^2(392) = 605$ , RNI = .902, TLI = .891

## Conceptualization of Physical Self-concept / esteem PSDQ validation (Marsh & Redmayne, 1994)



Model C:  $\chi^2(392) = 601$ , RNI = .904, TLI = .893.

## Physical Self-concept / esteem

Some conclusions on the conceptualisation of the Physical Self

Physical self is multidimensional

There are several levels of specificity within the physical domain from state like (e.g. self-efficacy), to general physical competence, to global physical self-worth

The physical self is at least partly hierarchical (even though longitudinal studies have failed to support it so far)

The physical self may develop as a set of specific identities (e.g. athlete, exerciser) which are accompanied by psychological and behavioural profiles

Physical self-worth is a significant determinant of global self-esteem

## Physical Self-concept / esteem

### Physical Appearance

The availability and the display of the body makes it central in peoples' life from the early years

Height, weight, facial features, hair, clothing are increasingly important even in childhood

Attractiveness core feature of physical self-concept

The body significant determinant of social interaction, sexuality, functionality

Physical competences

Less influential in terms of global esteem



## Physical Self-esteem

Perceived Importance (Harter, 1990; Fox, 1990)

Importance attached to self-esteem components determines the impact of each component to global self-esteem

=> Those attaching little importance to components of esteem they perceive as low, prevent deficits in global self-esteem

=> Those attaching high importance to components of self-esteem they perceive as low, are liable to *importance-competence discrepancies* and may suffer decreased in global self-esteem

Competence in components rated as important are highly related to global self-esteem - Competence in components rated as unimportant are lowly related to global self-esteem

High discrepancies between perceptions of competence and importance produce low self-esteem - Low discrepancies between perceptions of competence and importance produce high self-esteem

\* Importance is influenced by several personal and cultural characteristics

## Physical Self-esteem

Perceived Importance Profile for PSPP (Fox, 1990)

Low scores in perceived sport competence and perceived strength by females are accompanied by low perceived importance – discounting hypothesis

Low scores in perceived appearance by females are accompanied by high perceived importance – cultural dominance

## Physical Self-esteem

Alternative determinants (Fox, 1997)

Unconditional self-worth

self-worth build around beauty, achievement and acquisitions is superficial, unstable and short lived – cannot last indefinitely

realization of worth is based on knowing that the love and regard of others is unconditional and on accepting personal uniqueness

True vs Contingent self-esteem

contingent self-esteem relies on social comparison and meeting external demands – constant drive to prove oneself (characteristic of modern western societies)

true self-esteem relies on autonomy, an inner sense of efficacy and relatedness rather than matching external demands

contingent self-esteem is fragile as there are always others that are better, physical competencies and appearances decline with age

true self-esteem is more secure and stable

## Physical Self-esteem

Alternative determinants (Fox, 1997)

Self-determination (resembling true self-esteem)

extrinsic motives are not integrated in the self-system and do not contribute to autonomy, but create a self-esteem contingent on adequacy

intrinsic motives are integrated and compatible with one's identity, are self-enhancing and self-confirming leading in true self-esteem

Self-acceptance (resembling unconditional self-worth)

“respecting oneself, including one's admitted faults”  
self-accepting individuals may rate themselves low on competences or attributes in self-perception profiles, but still rate themselves high on self-esteem

## Exercise & Physical Self-esteem

Self-Esteem → Exercise (self-enhancement model)

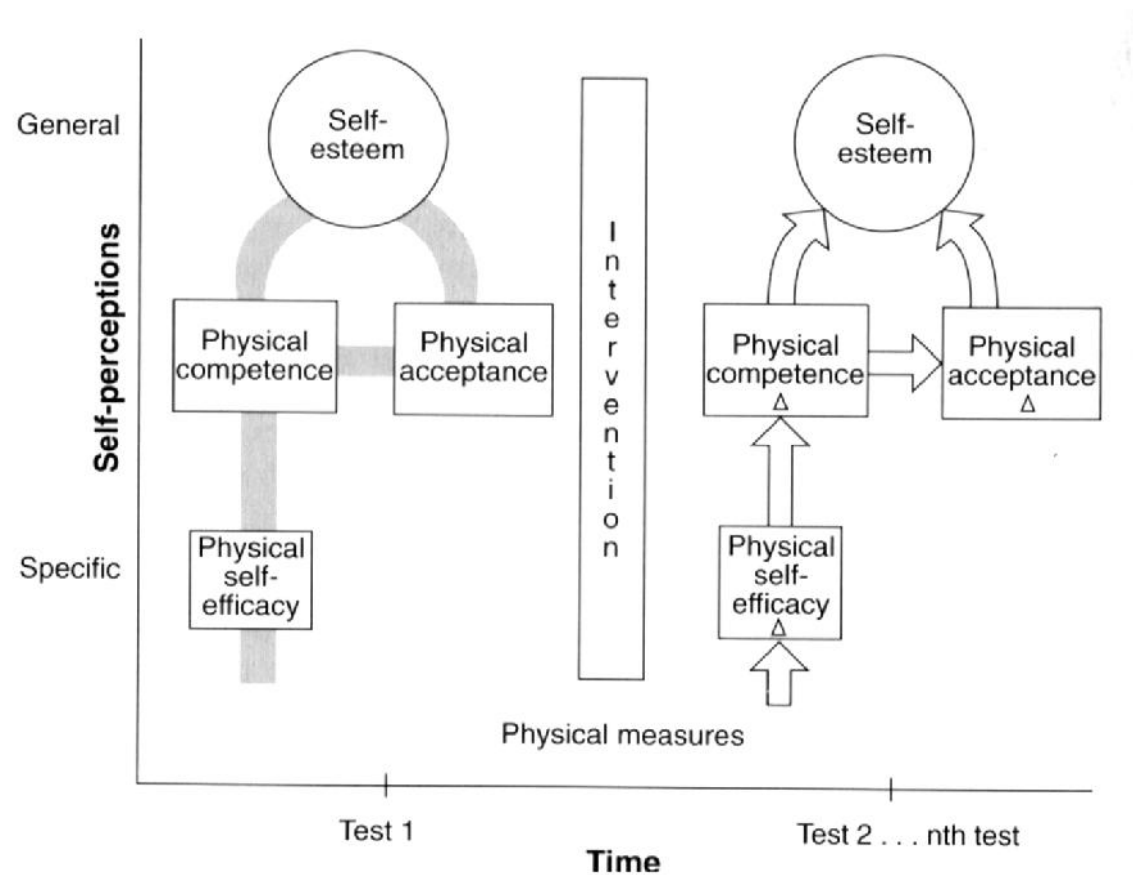
Physical self-esteem may act as an antecedent of exercise behaviour because perceptions of competence in a given domain, or how confident people are that that exercise will enhance their sense of self, will lead a person to seeking those sensations of achievement

Exercise → Self-esteem (skill development model)

Exercise experiences and perceptions of success in relevant fields may enhance individuals' perceptions of physical competence and subsequently physical and possibly global self-esteem

## Exercise & Physical Self-esteem

The Exercise – Self-Esteem Model (Sonstroem & Morgan, 1989)



## The Exercise – Self-Esteem Model (Sonstroem & Morgan, 1989)

### Components

#### Physical performance

performance on tasks

#### Perceived physical self-efficacy

expectations that one can successfully perform a particular task

#### Perceived physical competence

self-evaluation of overall level of physical ability

#### Self-acceptance

personal regard and liking people hold for themselves and their attributes irrespective of their levels of perceived competence

#### Self-esteem

Left side: pre-intervention hypothesized relationships between the constructs

Right side: post-intervention (experiences of competence) causal relationships

## The Exercise – Self-Esteem Model (Sonstroem & Morgan, 1989)

### Early Findings

#### Sonstroem et al. (1991) – middle aged and older adults – physical activity task

Self-efficacy related to perceived competence

Perceived competence related to self-esteem

Self-efficacy not directly related to self-esteem

#### Fox & Corbin (1989) – college students

PSPP dimensions discriminated effectively between exercisers and non-exercisers



## The Exercise – Self-Esteem Model (Sonstroem & Morgan, 1989)

Structural model (Sonstroem et al., 1994)

### Method

### Sample

216 adult females  
aerobic dance classes  
mean age 38.4 years

### Instruments

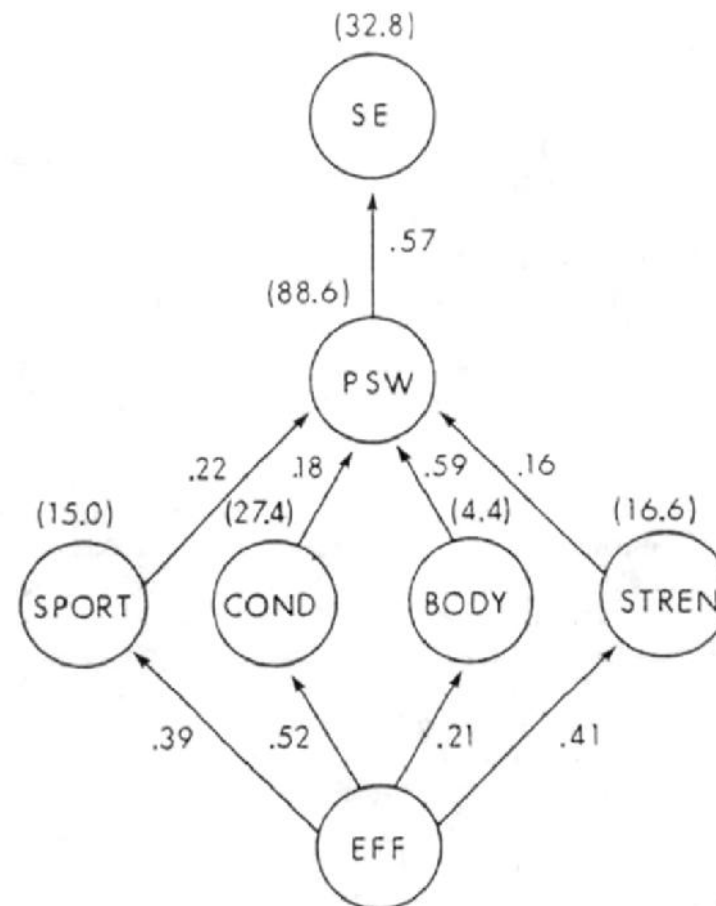
General Self-Worth  
(Messer & Harter, 1986)

### PSPP

(Fox & Corbin, 1989)

### Self-efficacy

jogging, sit-ups, vigorous dancing



## The Exercise – Self-Esteem relationship

Meta-analysis

McDonald & Hodgdon (1991)

Adults – aerobic exercise – published studies

Positive moderate relationship between self-esteem and exercise

## The Exercise – Self-Esteem relationship

Meta-analysis (Spence et al., 2005) - 113 studies (published and unpublished)

### Hypothesized moderators

- Changes in physical fitness

exercise participants who experience changes in physical fitness should experience larger changes in GSE as opposed to those who do not experience such changes

- Initial fitness level

less physically fit individuals should experience more of a change in GSE as a result of exercising compared to more physically fit individuals

- Initial self-esteem level

Participants with initially lower GSE scores should experience the most change in self-esteem as a result of exercise and changes in fitness

- Dose of exercise (frequency, duration, intensity, and length of program)

Programs that take place over a longer period, with exercise bouts of higher frequency, intensity, and duration, should lead to larger changes in GSE vs. programs of shorter length with lower doses of exercise

## The Exercise – Self-Esteem relationship

Meta-analyses (Spence et al., 2005)

### Additional moderators tested

- Characteristics of the sample (age, sex, population, health status)
- Methodology (self-term, questionnaire, participant assignment, control condition)
- Treatment (type of intervention, mode of exercise, type of fitness measure).

## The Exercise – Self-Esteem relationship

Meta-analyses (Spence et al., 2005)

### Results

#### Overall effect

Exercise participation leads to small yet significant increases in GSE (effect size = .23)

#### Hypothesized Moderators

- Change in physical fitness

**Table 1** Summary Statistics for Hypothesized Moderators of Exercise and Self-Esteem

Variable	$Q_b$	$k$	$d+$	$SE$	95% CI	$Q_w$
Initial fitness level	3.10					141.04
Low		53	.29	.05	.20/.38	60.71
Moderate		73	.20	.03	.14/.26	80.33
Initial self-esteem level	0.91					136.52
Low		28	.28	.06	.16/.41	25.83
Moderate		98	.22	.03	.17/.27	110.69
Exercise intensity	0.81					125.36
Low (< 45%)		21	.26	.07	.13/.40	29.85
Moderate		70	.21	.03	.15/.28	76.56
High (70%+)		25	.26	.05	.15/.37	18.95
Exercise frequency	3.27					125.41
< 3 times/wk		33	.22	.05	.13/.31	45.43
3 times/wk		63	.23	.04	.15/.30	67.91
> 3 times/wk		14	.36	.07	.22/.50	12.07
Exercise duration	2.18					128.71
0–30 min		20	.32	.08	.15/.48	13.25
31–45 min		24	.19	.06	.07/.31	42.72
46–60 min		47	.24	.04	.16/.32	49.68
> 60 min		7	.13	.13	–.13/.38	7.94
Length of program	0.52					113.59
< 9 wks		39	.24	.05	.14/.33	61.48*
9 to 14 wks		53	.26	.04	.18/.33	52.72
> 14 wks		20	.21	.05	.11/.31	14.51
Change in physical fitness	3.79*					63.20
Yes		59	.32	.04	.25/.40	52.68
No		16	.15	.08	.00/.31	10.53

Note: CI = confidence interval;  $Q_b$  = measure of between-group effect;  $k$  = number of effect sizes;  $d+$  = average weighted effect size;  $SE$  = standard error of  $d+$ ; 95% CI = 95% confidence intervals for  $d+$ ;  $Q_w$  = measure of within-group homogeneity.

\*  $p < .05$

## The Exercise – Self-Esteem relationship

Meta-analyses (Spence et al., 2005)

Results

Additional Moderators

No significant results

Table 2 Summary Statistics for Additional Moderators of Exercise and Self-Esteem

Variable	$Q_b$	$k$	$d+$	$SE$	95%CI	$Q_w$
<i>Sample Variables</i>						
Age	2.01					113.63
Young		58	.24	.03	.17/.30	64.41
Middle-age		32	.30	.06	.19/.41	33.64
Older adults		18	.18	.08	.03/.33	15.58
Sex	1.00					143.31
Women		57	.21	.04	.14/.29	76.18*
Men		21	.28	.05	.17/.38	15.57
Mixed sample		49	.22	.04	.15/.30	51.56
Population	8.02					136.29
Public		48	.32	.04	.24/.41	44.00
Students		55	.19	.03	.12/.25	64.43
Patients		15	.28	.09	.10/.46	20.54
Other		9	.12	.09	-.06/.30	7.31
Health status	0.64					143.67
Healthy		97	.22	.03	.17/.27	111.13
Physically unhealthy		15	.23	.08	.06/.40	8.33
Psychologically unhealthy		14	.29	.08	.13/.46	24.21*
<i>Methodological Variables</i>						
Self term	0.05					142.29
Self-esteem		44	.23	.04	.14/.31	49.48
Self-concept		83	.24	.04	.18/.30	92.81
Scale	3.52					140.87
R-SES		27	.18	.05	.08/.28	20.57
TSCS		67	.24	.03	.18/.31	65.97
SCS		8	.39	.10	.18/.59	13.22
Other		26	.20	.05	.10/.31	41.11*
Publication status	0.22					144.17
Published		48	.24	.04	.17/.32	40.59
Unpublished		80	.22	.03	.16/.28	103.58*
Control group	0.16					144.22
No treatment		110	.23	.03	.18/.28	121.33
Other treatment		13	.24	.08	.07/.40	17.83
Some exercise		5	.18	.14	-.09/.44	5.06
Group assignment	6.60					137.82
Random		54	.26	.04	.18/.34	54.63
Matching		9	.48	.11	.26/.71	6.05
Nonequivalent		65	.20	.03	.14/.26	77.14

## The Exercise – Self-Esteem relationship

Meta-analyses (Spence et al., 2005)

Results

Additional Moderators

No significant results

Variable	$Q_b$	$k$	$d+$	$SE$	95%CI	$Q_w$
Study quality	5.29					139.10
Poor		55	.17	.04	.10/.24	73.60*
Fair		52	.27	.04	.20/.35	52.11
Good		21	.31	.07	.18/.45	13.39
<i>Treatment Variables</i>						
Type of program	14.80**					129.58
Exercise <sup>a</sup>		109	.26	.03	.21/.31	111.26
Lifestyle <sup>a</sup>		8	.36	.11	.13/.58	7.54
Skills training <sup>b</sup>		11	-.03	.07	-.17/.11	10.79
Exercise mode	4.78					131.85
Aerobic		59	.25	.04	.18/.32	68.56
Aerobic & other		31	.22	.05	.12/.32	25.42
Martial arts		4	.00	.12	-.22/.23	2.85
Flexibility		9	.20	.10	.00/.40	12.46
Strength		15	.26	.06	.14/.37	20.83
Mix		5	.18	.10	-.02/.38	1.72
Type of fitness measure	4.23					48.44
Aerobic		27	.32	.06	.20/.44	33.68
Body composition		4	.38	.19	-.01/.76	6.13
Strength		8	.37	.08	.22/.53	2.11
Other		5	.19	.15	-.11/.48	2.15
Combined fitness		5	.18	.11	-.03/.38	2.16
Combined fitness & body comp.		10	.41	.09	.24/.58	2.22

Note: CI = confidence interval;  $Q_b$  = measure of between-group effect;  $k$  = number of effect sizes;  $d+$  = average weighted effect size;  $SE$  = standard error of  $d+$ ; 95% CI = 95% confidence intervals for  $d+$ ;  $Q_w$  = measure of within-group homogeneity; R-SES = Rosenberg Self-Esteem Scale; TSCS = Tennessee Self-Concept Scale; SCS = Self-Cathexis Scale. <sup>a, b</sup> Variables with different superscripts differ significantly at  $p < .01$ .

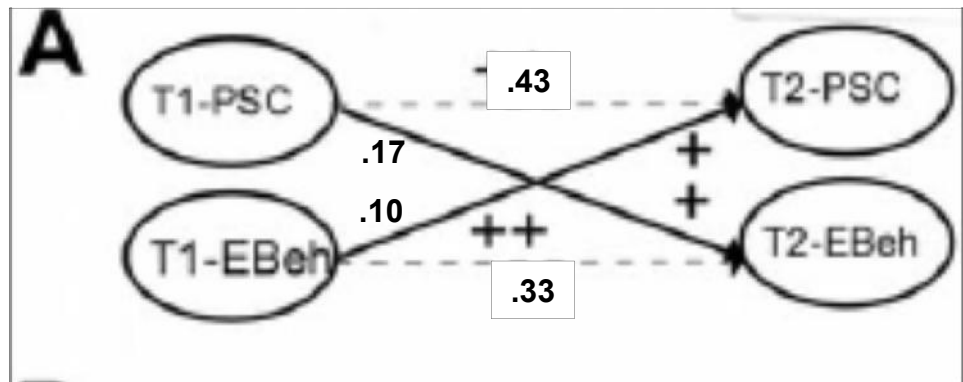
\* $p < .05$ ; \*\* $p < .001$

## The Exercise – Self Esteem relationship

Reciprocity (Marsh, Papaioannou & Theodorakis, 2006)

PSC: Self esteem / Ebeh: Exercise behavior

T1 (time 1): September – October / T2 (time 2): April - May



T1 physical self-concept predicted T2 exercise behaviour

T1 exercise behaviour predicted T2 physical self-concept

For exercise behaviour and Self esteem Girls had lower scores than boys at T1 and T2

Exercise behaviour and Self esteem declined with age

For exercise behaviour, the sex difference grew larger with age

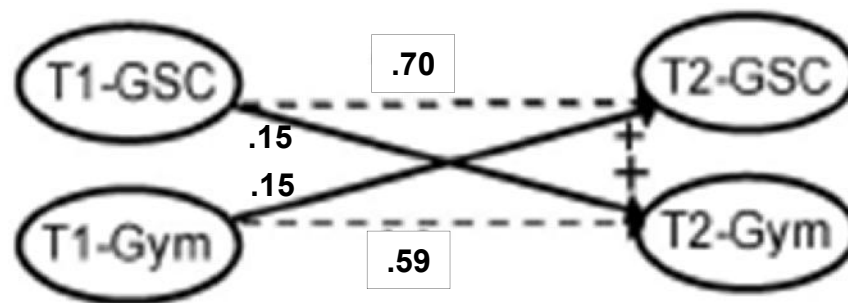


## The Exercise – Self Esteem relationship

Reciprocity (Marsh, Chanal & Sarazin, 2006)

GSC: Self esteem / Gym: Gymnastics performance

T1: before training (week 1) / T2: after training (week 10)



T1 physical self-concept predicted T2 gymnastics performance

T1 gymnastics performance predicted T2 physical self-concept

Age related to performance at T1 and T2

Boys higher self-esteem than girls in T1 and T2

Boys lower gymnastics performance than girls in T1 and T2

## Cognitive Theories of Motivation & Self-esteem

### Competence motivation theory (Harter, 1978)

individuals are motivated in achievement domains in which they can display competence, particularly if they also feel intrinsically motivated towards the behaviour

### Goal perspectives theory (Duda, 1993)

differential conceptualization of competence

competence as ability – competence as learning and mastery

self-referenced vs comparative criteria

task orientation vs ego orientation

competence criteria important for the explanation of competence

interaction between goal orientations and goals that appear to be dominant in the achievement environment (motivational climate)

important determinant of competence

## Cognitive Theories of Motivation & Self-esteem

Self-efficacy – Social Cognitive Theory (Bandura, 1986)

reciprocal relationship between self-efficacy and behaviour

sources of self-efficacy – prior success, modelling, verbal persuasion

Self-determination theory (Deci & Ryan, 1995)

process of internalization – from external to intrinsic regulation

complementary of self-enhancement hypothesis

competence – behaviour relationship

## Theory to Practice

- DO emphasize task mastery  
personal improvement
- DON'T emphasize peer comparison  
winner-loser situation
- DO promote self-determination  
decision making and choice rather than anarchy
- DON'T provide performance-contingent support  
conditional acceptance
- DO give encouragement and technical feedback  
reinforce mastery efforts
- DON'T rely on extrinsic rewards  
promote intrinsic reasons for participation
- DO promote fun and excitement  
fun is the safer route for participation
- DO play  
better long-term effect than training

## Theory to Practice

Critical for younger populations

Effort

Learning

Attainable Goals

Personal standards

Reality

Health & Fitness

## Key texts

Fox, K.R. (1997). *The physical self: from motivation to well-being*. Champaign, Ill., Human Kinetics.

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Marsh, H.W. (2007). Physical self-concept and sport. In S. Jowett & D. Lavallee, (eds), *Social psychology in sport*. Champaign, IL: Human Kinetics.