## PMU73

## **EVIDENCE MAP OF ECONOMIC EVALUATIONS OF EXERCISE THERAPY PUBLISHED SINCE 2015**



20-30

Jack Hines;<sup>1</sup> Alison Martin<sup>1</sup>

<sup>1</sup> Crystallise Ltd jack.hines@crystallise.com, alison.martin@crystallise.com

### **Objectives:**

To create an Evidence Map of economic model studies for exercise therapy including the disease, population, type of activity, study methodology and geographical settings in which these studies were conducted.

### Methods:

- The heoro.com database indexes publications available on PubMed according to study types, diseases, interventions and locations.
- We identified all cost-effectiveness, cost-utility, cost-benefit, cost-consequence and cost-minimisation models of exercise therapy

published between 2015 and 16<sup>th</sup> May 2018 from the heoro.com database and indexed these by disease, population and type of exercise therapy.

The results are presented below as an Evidence Map. 

#### **Results:**

We identified 100 independent publications. Table 2: Type of **Table 1:** Type of model by jurisdiction.

	СВА	ССА	CEA	СМА	CUA
Australia	1	0	6	0	8
Canada	1	0	1	0	3
Colombia	0	0	0	0	1
Denmark	0	0	1	0	2
Europe	0	0	1	0	1
Finland	0	0	2	0	3
International	4	1	7	1	4
Italy	1	0	0	0	0
Netherlands	1	0	1	0	7
New Zealand	0	0	0	0	1
Sweden	0	0	0	0	1
UK	0	0	6	0	20
USA	1	1	14	0	9
Unclear	1	1	1	1	4

# exercise therapy.

		Evidence
	Unallocated	
Aerobic Training	2	
Breathing Techniques	1	
Cycling	3	
Dance	1	-
Day Camp	1	ح
Home Based Training	10	20
Medical Yoga	1	
Multiple	6	
PCST	1	
Physical Exercise	1	
Physiotherapy	5	
Strength and Stretch Hand	1	
Supervised Exercise Therapy	1	
Tai ji Quan	1	Fig
Texercise Select	1	Cost-k
Unspecified	58	Cost-c
Various	1	Cost-e
Walking	7	<u>Cost-u</u>

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#### **Table 3:** Disease by subpopulation assessed.

	Adolescents	Adults	Any	Children	Elderly	Unspecified
Cancer	0	2	0	0	0	4
Cardiovascular	0	0	1	0	0	5
Dementia	0	1	0	0	5	0
Mental Illness	0	1	0	0	0	0
Musculoskeletal	0	2	0	1	2	11
Neuromuscular	0	1	0	1	0	1
None	3	7	3	6	4	4
Respiratory	0	1	0	0	1	3
Unspecified	0	1	0	0	1	3
Various	0	8	3	5	7	8

Table 4: Disease evaluated	by jurisdiction.
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	Australia	Canada	Colombia	Donmark	Europa	Einland	International	Italy	Nothorlands	New Zealand	d Sweden			Unclear	ns	23					
	Australia	Callaua	COIOMDIa	Dennark	Europe	Filliallu	International	Ιάιγ	Nethenanus		u Sweden		UJA	Unclear	tio						
Cancer	1	0	0	0	0	0	1	0	2	0	0	1	0	1	icat	20 —					
Cardiovascular	2	0	1	0	0	1	0	0	1	0	0	1	1	0	ldu						
Dementia	0	2	0	1	0	0	1	0	0	0	0	1	0	0	. of F	15 —					
Mental Illness	0	0	0	0	0	0	0	0	0	0	0	1	0	0	hber						
Musculoskeletal	2	2	0	1	0	0	3	0	1	0	0	4	2	2	Nun	10 —					
Neuromuscular	1	0	0	0	0	0	0	0	0	0	0	0	1	1							
None	4	1	0	1	0	1	2	0	0	0	1	2	12	0		5 —					
Respiratory	0	0	0	0	0	0	1	0	3	0	0	1	0	0							
Unspecified	1	0	0	0	0	0	0	0	0	0	0	2	2	0		0					
Various	2	0	0	0	2	2	2	1	1	1	0	11	5	3		_	2015:201	16	2016:2017	2	2017:2018



## gure 1: Number of publications by geographical region.





### **Conclusions:**

- Where specified, economic model studies for exercise therapy have most commonly explored home-based training methods, walking, cycling and physiotherapy.
- The majority of economic models were cost-utility models set in the UK, USA, Australia or the Netherlands.
- Populations have most commonly been healthy individuals or patients with musculoskeletal, cardiovascular or respiratory disorders, cancer or dementia.

### Download the free Evidence Map:

Crystallise Ltd. Unit 21 Thames Enterprise Centre, Thames Industrial Park, East Tilbury, Essex UK RM18 8RH Tel: +44 01375 488020

For a copy of this poster or the Evidence Map, email: alison.martin@crystallise.com

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