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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 16th 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 1: Type of model by jurisdiction.

	CBA	CCA	CEA	CMA	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

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.

	Australia	Canada	Colombia	Denmark	Europe	Finland	International	Italy	Netherlands	New Zealand	Sweden	UK	USA	Unclear
Cancer	1	0	0	0	0	0	1	0	2	0	0	1	0	1
Cardiovascular	2	0	1	0	0	1	0	0	1	0	0	1	1	0
Dementia	0	2	0	1	0	0	1	0	0	0	0	1	0	0
Mental Illness	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Musculoskeletal	2	2	0	1	0	0	3	0	1	0	0	4	2	2
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
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
Various	2	0	0	0	2	2	2	1	1	1	0	11	5	3

Table 2: Type of exercise therapy.

	Unallocated
Aerobic Training	2
Breathing Techniques	1
Cycling	3
Dance	1
Day Camp	1
Home Based Training	10
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
Texercise Select	1
Unspecified	58
Various	1
Walking	7

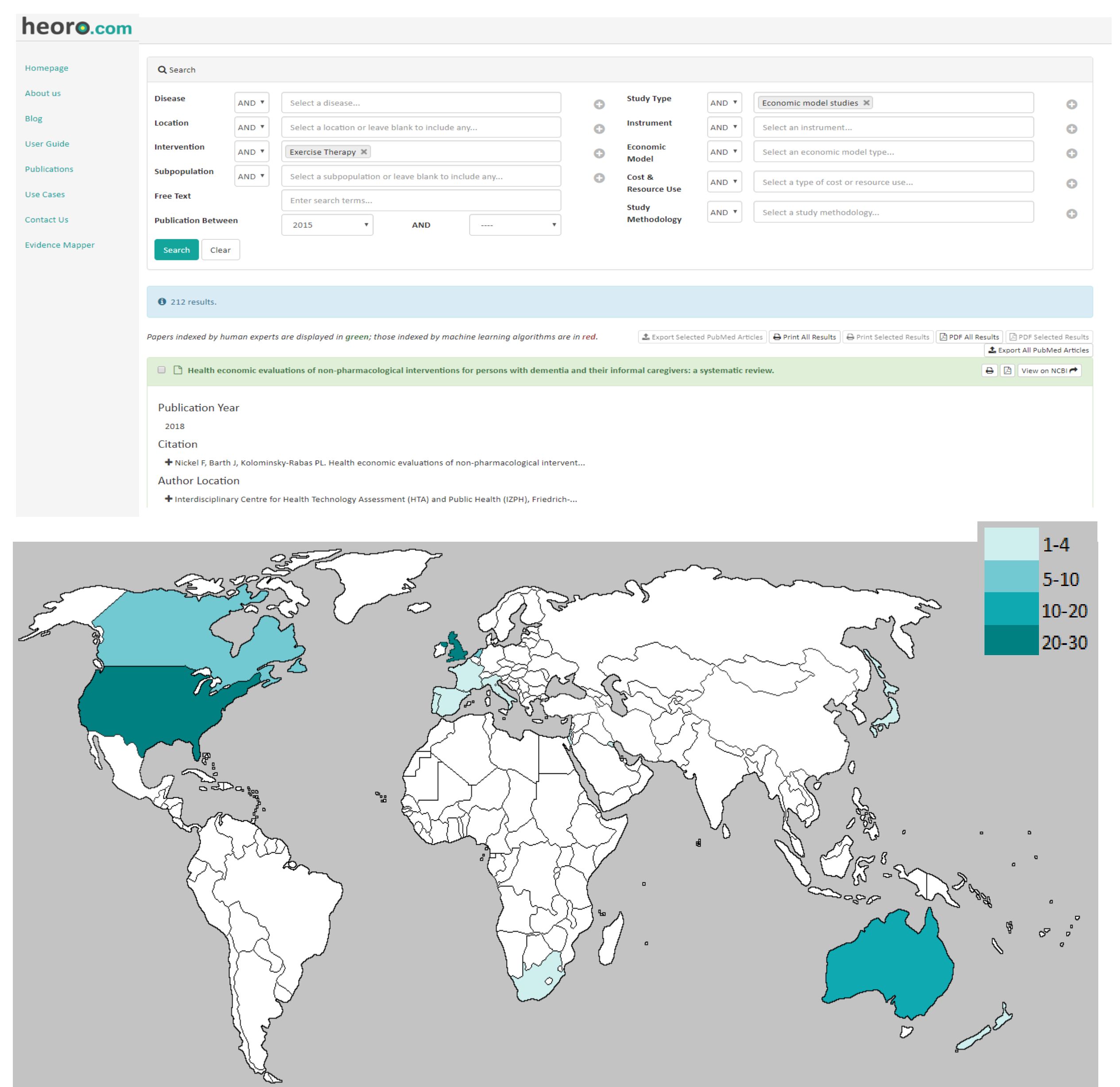
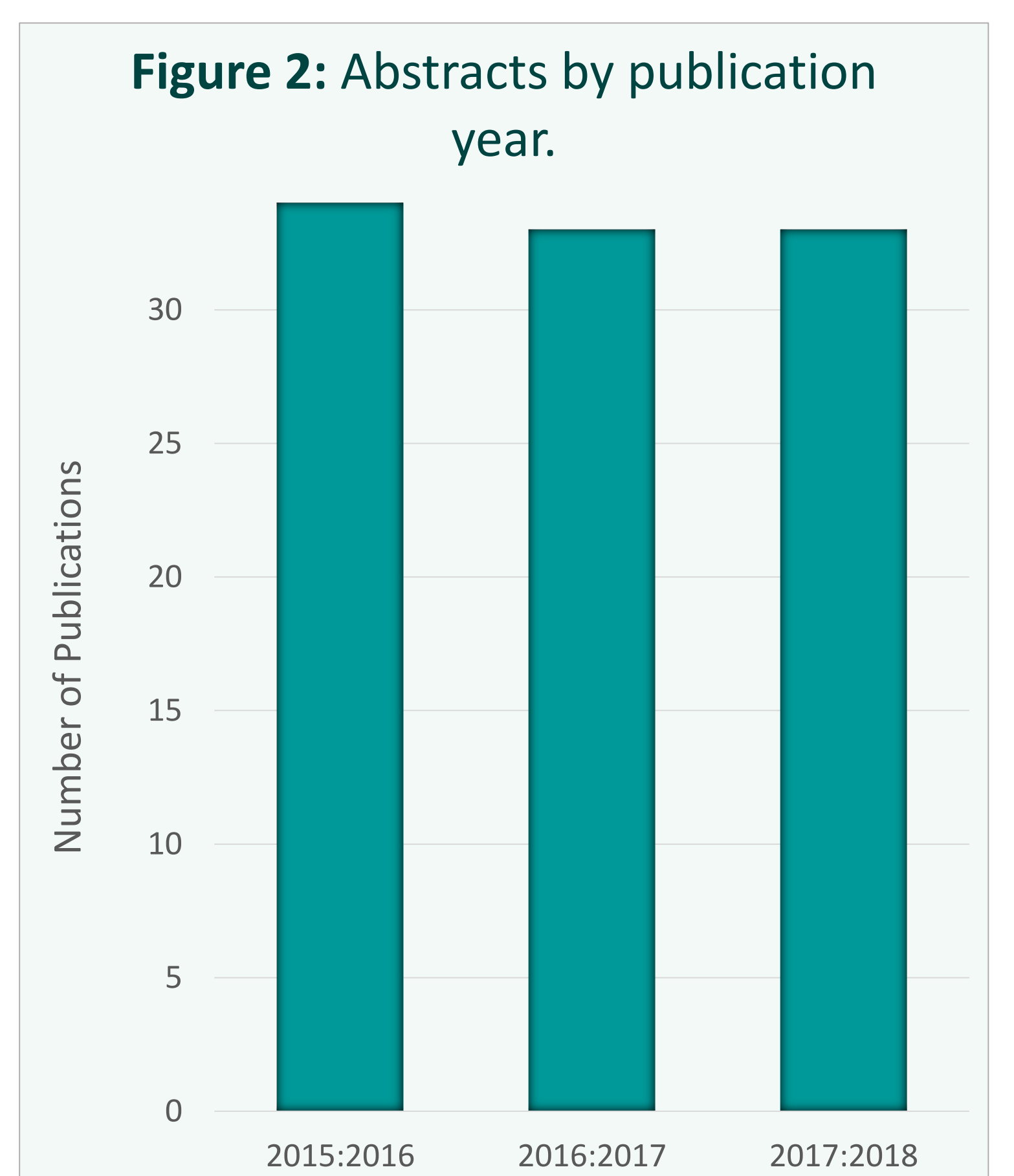


Figure 1: Number of publications by geographical region.

- Cost-benefit analysis (CBA)
- Cost-comparison analysis (CCA)
- Cost-effectiveness analysis (CEA)
- Cost-minimisation analysis (CMA)
- Cost-utility analysis (CUA)

Figure 2: Abstracts by publication year.



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:



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