Holland Blcorview **Kids Rehabilitation Hospital**

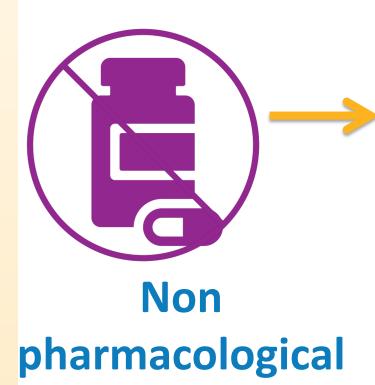








17-29% also have mental health comorbidities [2]





Safe









No side effects

Interdisciplinary

PAPER	STUDY DESIGN			WAS THERE AN IMPROVEMENT WITH TREATMEN		
	SAMPLE SIZE	AGE	TYPE OF INTERVENTION	MENTAL HEALTH	PAIN INTENSITY	PHYSICAL FUN
MANO ET AL (2013)	6 (5F, 1M)	12 to 18 (15)	Mindful based intervention VS Psychoeducation	No	No	Not asse
FANUCCHI ET AL (2009)	70 (31F, 39M	12 to 13 (12)	Exercise program VS Home exercise	No	Yes*	No
PALERMO ET AL (2016)	278 (208F, 70M)	12 to 17 (14.7)	Internet treatment VS Internet education	Yes*	No	Not asse
CUNNINGHAM ET AL (2021)	79 (47F, 30M)	9 to 14 (11.65)	ADAPT VS Treatment as usual	No	No	Not asse
PALERMO ET AL (2020)	143 (120F, 23M)	10 to 17 (14.6)	Webmap internet program VS Treatment as usual	Not reported	No	Not asse
KASHIKAR-ZUCK ET AL (2012)	111 (105F, 6M)	11 to 18 (15)	CBT VS Fibromyaglia education	Yes	Yes	Yes
HEATHCOTE ET AL (2018)	23 (20F, 3M)	10 to 18 (13.97)	Attention bias modification VS Placebo VS Waitlist	Yes	Yes	Yes
KASHIKAR-ZUCK ET AL (2013)	114 (107F, 7M)	11 to 18 (15.2)	CBT VS Fibromyaglia education	Not reported	Yes	Yes*
KASHIKAR-ZUCK ET AL (2018)	40 (36F, 4M)	12 to 18 (15.38)	CBT VS Fibromyaglia integrative training	No	Yes	No
STEPHENS ET AL (2008)	30 (22F, 8M)	8 to 18 (12.92)	Aerobics VS Qigong	No	Yes	Yes
FLACK ET AL (2018)	126 (90F, 36M)	11 to 17 (14.3)	Introceptive exposure VS Control	Yes	Yes	Not asse
PALERMO ET AL (2009)	48 (35F, 13M)	11 to 17 (14.3)	Internet CBT VS Waitlist	Yes	Yes	Not asse

Doma Doma

Systematic Review of Non-Pharmacological Persistent Pain Treatments for Youth Ages 6 to 21 with Mental Health Comorbidities: Preliminary Results Dass, R., Tendera, A., Baerveldt, A., Lewis, I., Beal, D. METHODS PRISMA DIAGRAM **INCLUSION CRITERIA** ✤ Ages 6 to 21 years **1. IDENTIFICATION** Peer-reviewed Pre-post design Primary data sources **10808 studies imported** 1188 duplicates Persistent pain and a mental health for screening removed comorbidity At least one outcome domain 2. SCREENING recommended by the Pediatric Initiative on Methods, 9378 studies

irrelevant

9665 studies screened

3. FULL TEXT REVIEW

287 studies	274 studies
screened	excluded

4. INCLUDED

12 studies included

RESUITS

Domain 1: Risk of bias arising from the randomization process

Domain 2A: Risk of bias due to deviations from the intended interventions (effect of assignment to intervention Domain 2B: Risk of bias due to deviations from the intended interventions (effect of adhering to intervention) Domain 3: Missing outcome data

ain 4: Risk of bias in measurement of the outcome	
ain 5: Risk of bias in selection of the reported result	

- Measurements, and Pain Assessment in Clinical Trials [PedIMMPACT]

EXCLUSION CRITERIA

- Non-human studies
- Secondary data sources
- Older than 21
- No mental health comorbidity Specifically include
- neurodevelopmental disorder Only non-pharmacological
- treatments.
- Observational studies **Acute perioperative or**
- postoperative pain
- Cancer-related pain

ENT? **RISK OF BIAS DOMAIN** JNCTIONNING D1* D2-A D2-B D4 D3 D5 ssesed ssesed ssesed ssesed ssesed ssesed

Low Some concerns High

without.

mental health

Bloorview **RESEARCH INSTITUTE**

HIGHLIGHTS

✤ 1 study used the DSM-5

- criteria to assess mental health
- No distinction between children with mental health comorbidities VS children
- No formal analysis of mental health Large variability between
- assessment measures
- Currently, there is no evidence to
- suggest that non-pharmacological
- interventions are not effective for
- children with persistent pain and a
- comorbid mental health disorder.
- However, this topic has not been
- sufficiently been looked at it.

SUGGESTIONS

- ✤ Need for consistent measures criteria to improve replicability.
- Inclusion of formal assessments of
- Distinctions between participants with with mental health comorbidities, VS participants without
- Given the Get Up and Go program, there is an opportunity for this type of research to occur at Holland Bloorview.

