

u^b Al toolsAim for today's session

- Considerations when using AI tools
- Ways AI tools can assist literature research
- Al literacy and use
- Explore selected AI tools for literature research

u^b Al tools Considerations

- Search query details are not available
- Hallucinations or inaccurate summaries
- Potential bias
- Privacy

u^b Al toolsSupporting literature research

- Facilitate a direction for a research topic
- Identify synonyms/alternative terms for key concepts
- Help formulate or refine research questions
- Retrieve a set of key papers

- Highlight connections among papers
- Offer brief summaries to place a topic into context
- Help identify similar papers

u^b Al tools Al literacy

- Where to start?
 - Being able to identify tools that use AI technologies
 - Being able to identify the benefits and drawbacks of AI technologies

What is AI Literacy? Competencies and Design Considerations

Duri Long

Brian Magerko

u^b Al tools Al literacy

The ROBOT Test

Reliability Objective Bias Ownership

Туре

Amanda Wheatley Sandy Hervieux

Reliability

- How reliable is the information available about the AI technology?
- If it's not produced by the party responsible for the AI, what are the author's credentials? Bias?
- If it is produced by the party responsible for the AI, how much information are they making available?

u^b Al tools Al use

PRISMA AI reporting guidelines for systematic reviews and meta-analyses on AI in healthcare

Giovanni E. Cacciamani [™], Timothy N. Chu, Daniel I. Sanford, Andre Abreu, Vinay Duddalwar, Assad Oberai, C.-C. Jay Kuo, Xiaoxuan Liu, Alastair K. Denniston, Baptiste Vasey, Peter McCulloch, Robert F. Wolff, Sue Mallett, John Mongan, Charles E. Kahn Jr, Viknesh Sounderajah, Ara Darzi, Philipp Dahm, Karel G. M. Moons, Eric Topol, Gary S. Collins, David Moher, Inderbir S. Gill & Andrew J. Hung

Nature Medicine 29, 14–15 (2023) Cite this article

MASTER THESIS

Declaration of Authorship

If I use artificial intelligence as an aid, I must declare all elements that derive from it. I must list the name of the technology as well as the search terms "prompts" that I have used. I am aware that otherwise the thesis will receive the grade 1."



The NEW ENGLAND JOURNAL of MEDICINE

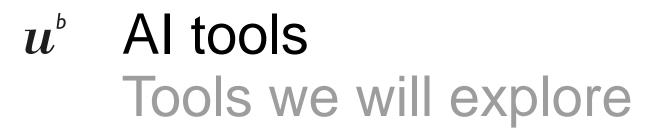
JAMA Internal Medicine

Authorship Criteria and Contributions

Nonhuman artificial intelligence, language models, machine learning, or similar technologies to be submitted for authorship. If these models or tools are used to create content or assist with writing or m ration, authors must take responsibility for the integrity of the content generated by these tools. Authors should report the use of artificial intelligence, language models, machine learning, or similar technologies to create content or assist with writing or editing of manuscripts in the Acknowledgment section or Methods

Use of AI-Assisted Technologies

The Journal has adopted the following policies, as specified by the International Committee of Medical Journal Editors (ICMJE), on the use of artificial intelligence (AI) in preparation of material to be submitted for publication in the Journal.



perplexity





u^b Al toolsAs we explore these tools

- Reflect on your information needs
- Consider what specific tasks/features can support your current scenario

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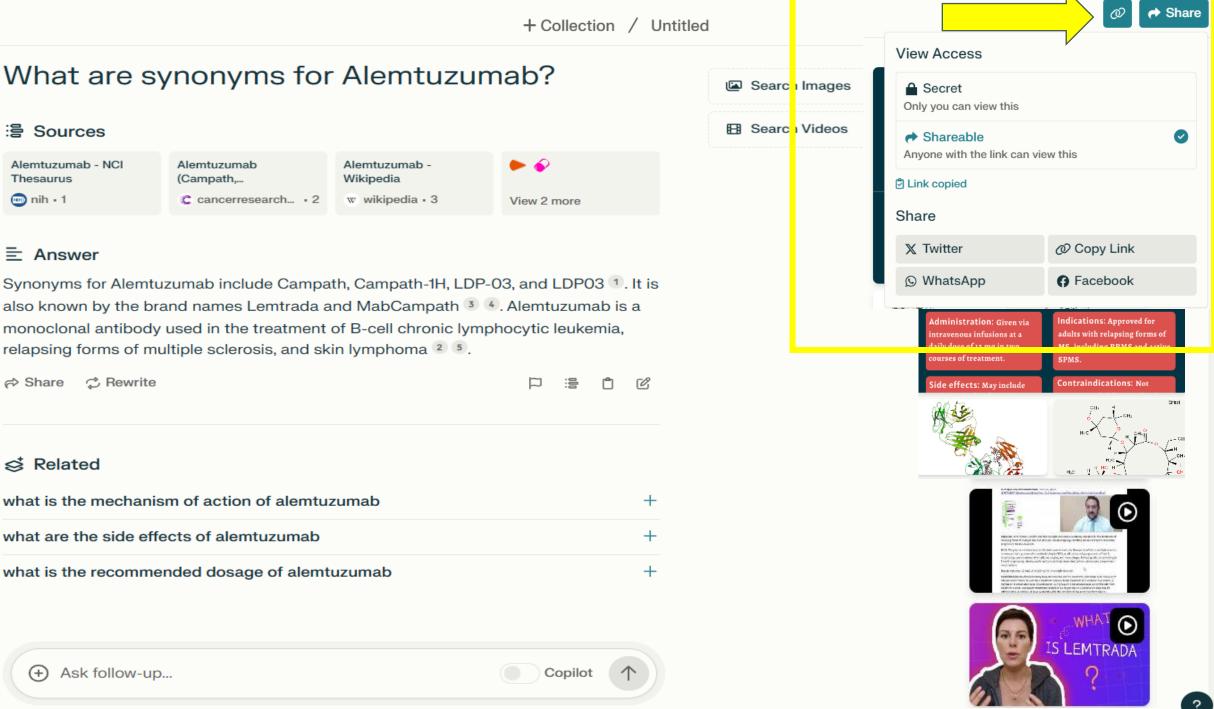
brown dog name ideas healthy restaurants in sf $d/dy x^2 y^4 d/dy x^2 y^4$



What are synonyms for Alemtuzumab? Search Images +등 Sources E Search Videos +Alemtuzumab - NCI Alemtuzumab Alemtuzumab -Thesaurus (Campath,... Wikipedia 📼 nih • 1 w wikipedia - 3 C cancerresearch... 2 View 2 more Lemtrada for Multiple Sclerosis ∃ Answer Lemtrada (alemtuzumab) is an approved antibody-based therapy for relapsing forms of MS used to reduce Synonyms for Alemtuzumab include Campath, Campath-1H, LDP-03, and LDP03 1. It is relapses and prevent disability progression. also known by the brand names Lemtrada and MabCampath ³ ⁴. Alemtuzumab is a Indications: Approved for Administration: Given via monoclonal antibody used in the treatment of B-cell chronic lymphocytic leukemia, adults with relapsing forms of ntravenous infusions at a relapsing forms of multiple sclerosis, and skin lymphoma 2 5. aily dose of 12 mg in two MS, including RRMS and active ourses of treatment. SPMS. A Share C Rewrite Contraindications: No :2 ۲'n R de effects: Mav include Strelated what is the mechanism of action of alemtuzumab +what are the side effects of alemtuzumab +what is the recommended dosage of alemtuzumab +**IS LEMTRADA**

Ask follow-up...

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Thesaurus

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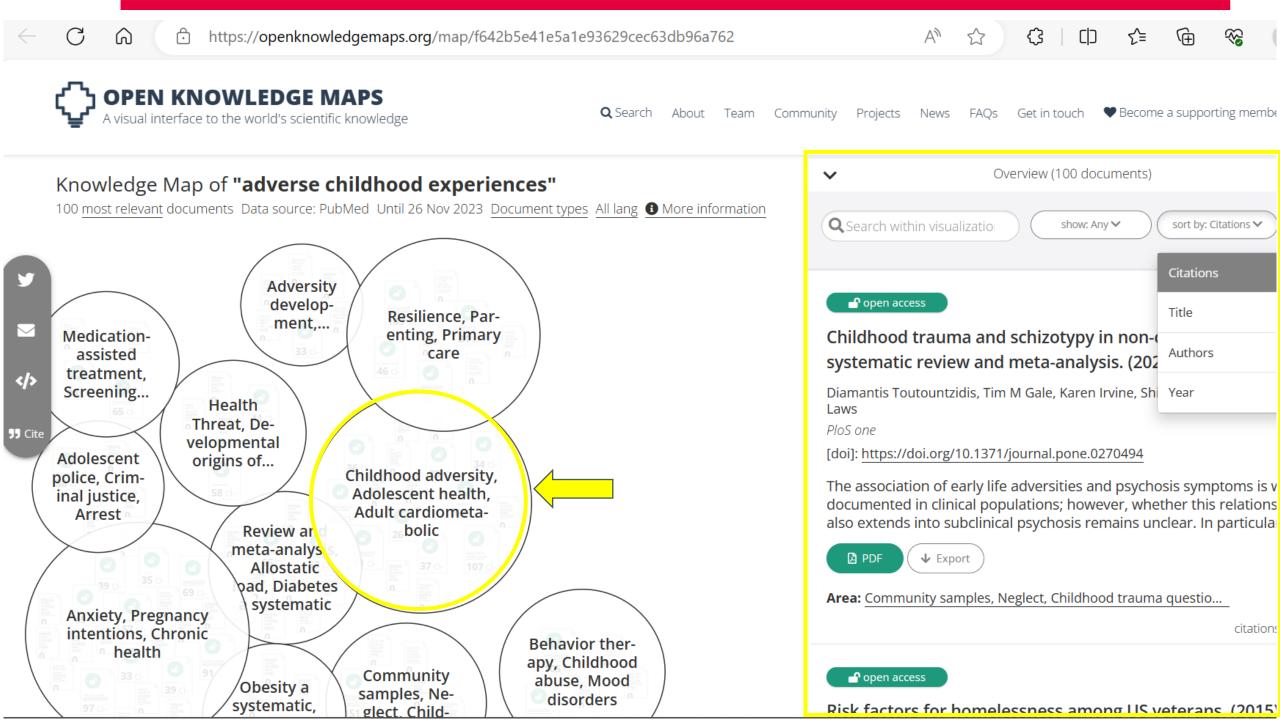
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u^b Al toolsOpen Knowledge Maps

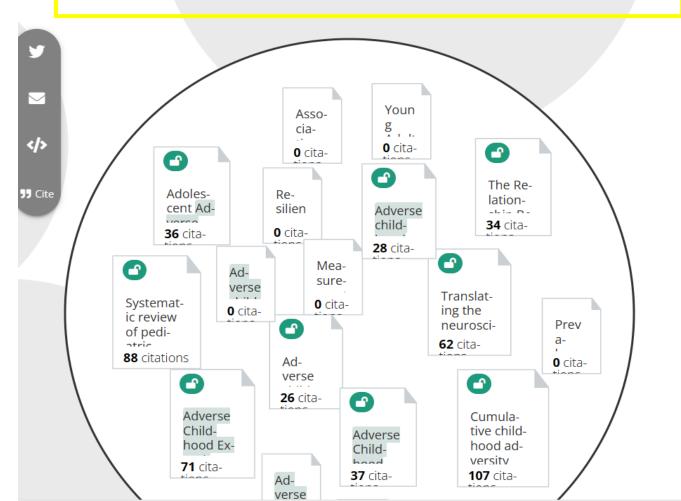


PubMed (life sciences)	
O BASE (all disciplines)	
<u>Refine your search </u>	
Enter your search term	GO



u^b Al toolsOpen Knowledge Maps

Area: Childhood adversity, Adolescent health, Adult cardiometabolic ← Back to overview



~	Area (17 documents)	~
Search within visualization	show: Any 🗸 sort by: Citations 🗸	

🗗 open access

Cumulative childhood adversity and adult cardiometabolic disease: A meta-analysis. (2018)

Karen P Jakubowski, Jenny M Cundiff, Karen A Matthews Health psychology : official journal of the Division of Health Psychology, American P... [doi]: https://doi.org/10.1037/hea0000637

Adverse childhood experiences may be associated with cardiometabolic morbidity and mortality in adulthood. There is heterogeneity in this literature regarding the type of items in cumulative adversity indices,...



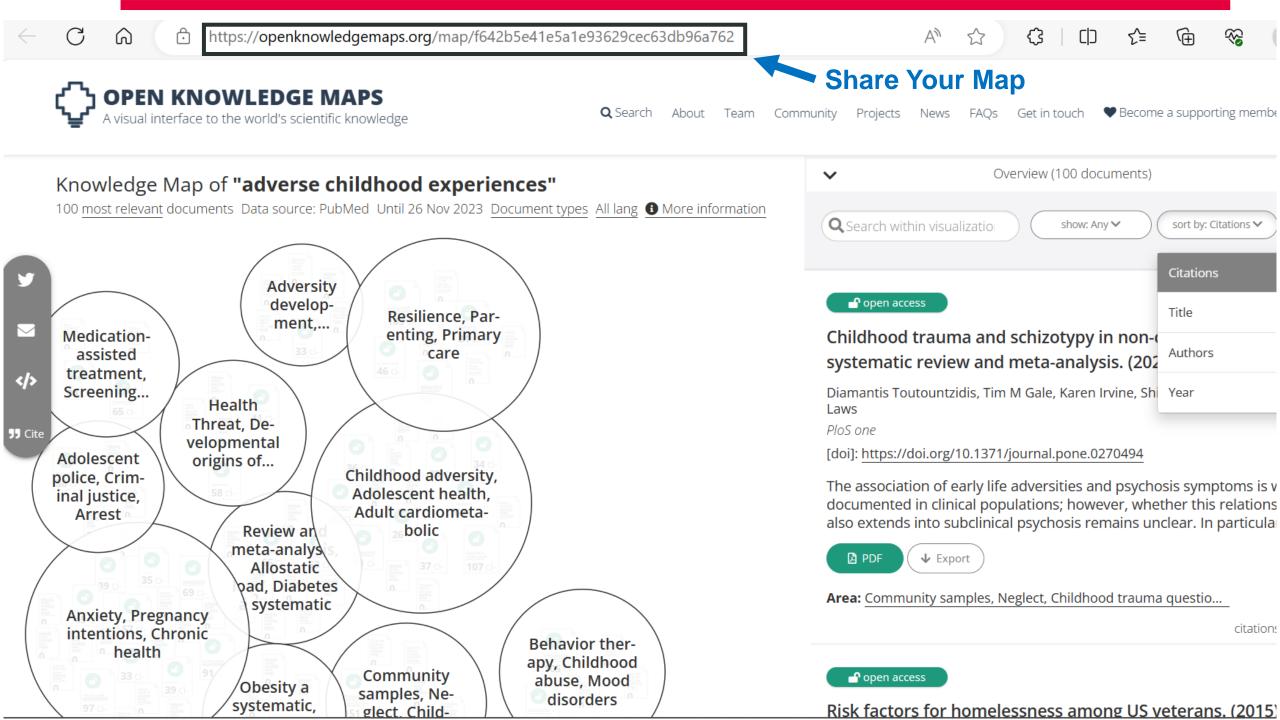
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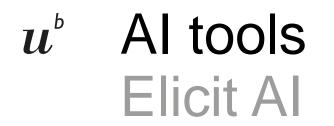
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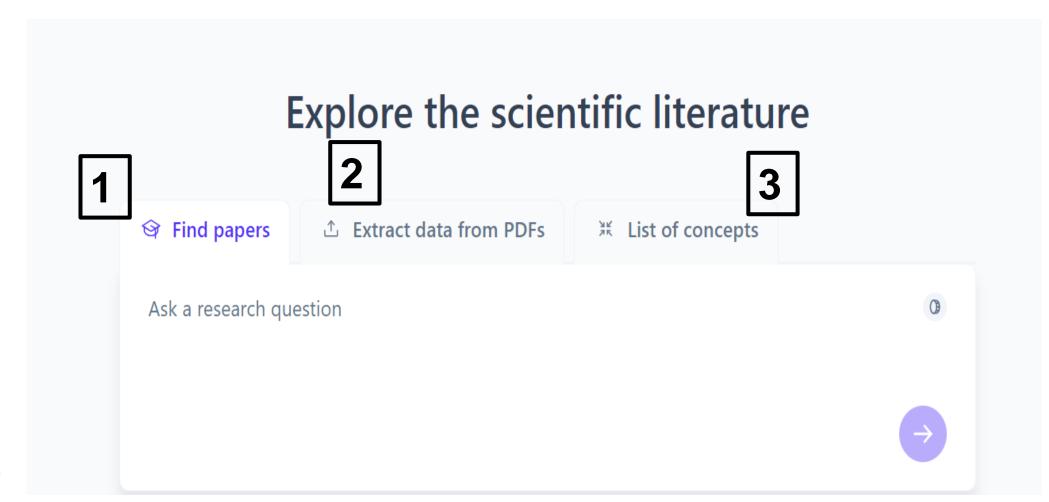
Systematic review of pediatric health outcomes associated with childhood adversity. (2018)

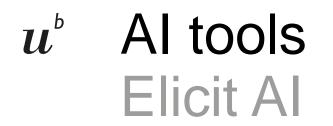
Debora Lee Oh, Petra Jerman, Sara Silvério Marques, Kadiatou Koita, Sukhdip



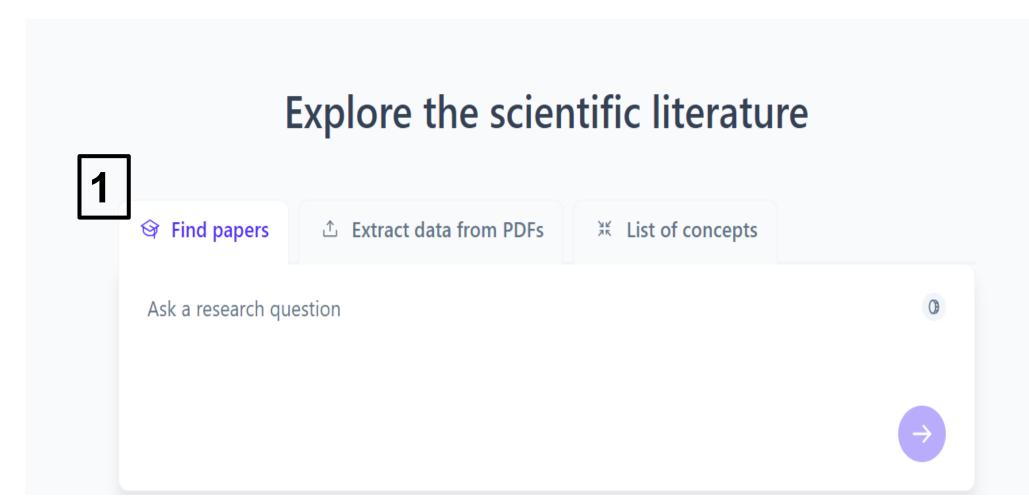












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Find papers

How effective is mindfulness meditation on chronic pain patients?

O Searching for papers

- O Summarizing 4 abstracts
- Final answer

Summary of top 4 papers

Mindfulness meditation has been shown to be effective in reducing pain severity and improving quality of life in chronic pain patients (Banth 2015, Sheybani 2022). It has also been found to help patients progress through the grieving process more quickly, and reduce depression and anxiety (Sagula 2004, Rod 2015). These findings suggest that mindfulness meditation can be a valuable tool in the management of chronic pain.

- The top 4 papers are summarized
- A total of 8 papers are displayed in the results page

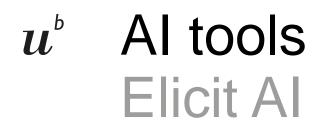
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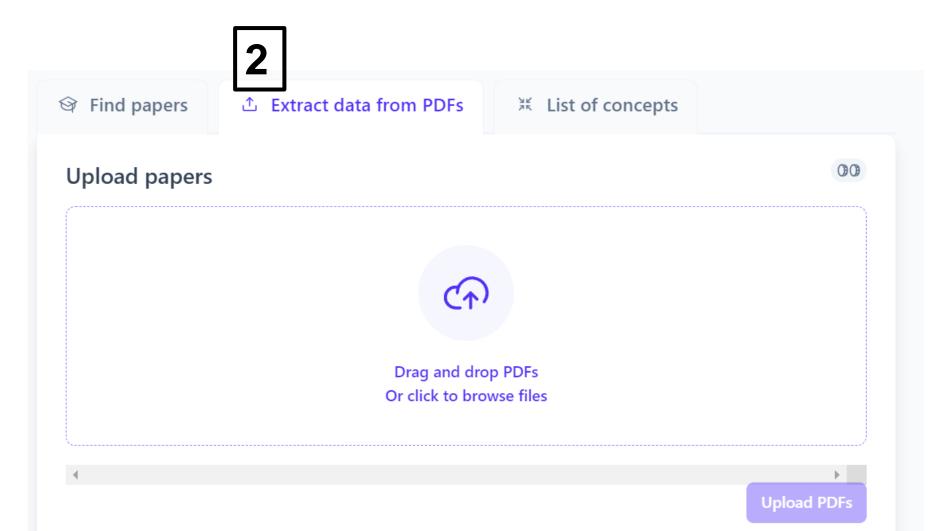
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	Paper	Abstract summary
	The Effectiveness of Mindfulness Training on the Grieving Process and Emotional Well-Being of Chronic Pain Patients	The treatment group advanced significantly more quickly through the initial stages of grieving than the comparison group.
	Effectiveness of mindfulness meditation on pain and quality of life of patients with chronic low back pain	Mindfulness-based stress reduction was effective intervention on reduction of pain severity and improvement of physical and mental quality of life of female patients with

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	Раре	e.g. summary, counter-arguments		Abstract summary
	The E Chroi ペロ ロール 2004 8	CURRENT COLUMNS Study design > Outcome measured > ADD COLUMNS + Main findings	ss and Emotional Well-Being of	The treatment group advanced significantly more quickly through the initial stages of grieving than the comparison group.
	Effec pain 오 S 다 /r 2015 6		ife of patients with chronic low back	Mindfulness-based stress reduction was effective intervention on reduction of pain severity and improvement of physical and mental quality of life of female patients with nonspecific chronic low back pain.
		nts.	ety and Depression in Chronic Pain	Mindfulness meditation training may benefit chronic pain patients who suffer anxiety and depression.
	Rando 🔍 Fa 🖽 Iro	iveness of Mindfulness-based Stress Reduction (MBSR) on omized Clinical Trial arshad Sheybani +3 anian Journal of Psychiatry and Clinical Psychology citations DOI 2	Patients With Chronic Pain: A	Mindfulness-based stress reduction therapy can be used to improve the quality of life of patients with chronic pain.

Paper	Abstract summary	Study design	Outcome measured
 The Effectiveness of Mindfulness Training on the Grieving Process and Emotional Well-Being of Chronic Pain Patients Q David Sagula +1 D Journal of Clinical Psychology in Medical Settings 2004 81 citations DOI 2 	The treatment group advanced significantly more quickly through the initial stages of grieving than the comparison group.	randomized controlled trial	 Response To Loss Scale (Measuring Grief) Beck Depression Inventory State Trait Anxiety Inventory
Effectiveness of mindfulness meditation on pain and quality of life of patients with chronic low back pain	Mindfulness-based stress reduction was effective intervention on reduction of pain severity and improvement of physical and mental quality of life of female patients with nonspecific chronic low back pain.	randomized controlled trial	 Pain Severity Physical Quality Of Life Mental Quality Of Life
 Observing the Effects of Mindfulness-Based Meditation on Anxiety and Depression in Chronic Pain Patients. ^Q Kim Rod ^D Psychiatria Danubina 2015 29 citations 	Mindfulness meditation training may benefit chronic pain patients who suffer anxiety and depression.	observational study	DepressionAnxietyPainGlobal Impression Of Change
Effectiveness of Mindfulness-based Stress Reduction (MBSR) on Patients With Chronic Pain: A Randomized Clinical Trial	Mindfulness-based stress reduction therapy can be used to improve the quality of life of patients with chronic pain.	randomized clinical trial	Pain IntensityAnxietyDepression

15	elected + Show more like these Delete = Sort + Add columns	La CSV PLUS
٠	Paper	Abstract summary
	The Effectiveness of Mindfulness Training on the Grieving Process and Emotional Well-Being of Chronic Pain Patients Chronic Pain Patients David Sagula +1 Journal of Clinical Psychology in Medical Settings 2004 81 citations	The treatment group advanced significantly more quickly through the initial stages of grieving than the comparison group.
	Effectiveness of mindfulness meditation on pain and quality of life of patients with chronic low back pain © Sudha Banth +1 International Journal of Yoga 2015 66 citations DOI ?	Mindfulness-based stress reduction was effective intervention on reduction of pain severity and improvement of physical and mental quality of life of female patients with nonspecific chronic low back pain.
0	Observing the Effects of Mindfulness-Based Meditation on Anxiety and Depression in Chronic Pain Patients. R Kim Rod Psychiatria Danubina 2015 29 citations	Mindfulness meditation training may benefit chronic pain patients who suffer anxiety and depression.
	Effectiveness of Mindfulness-based Stress Reduction (MBSR) on Patients With Chronic Pain: A Randomized Clinical Trial Farshad Sheybani +3 Iranian Journal of Psychiatry and Clinical Psychology 2022 0 citations DOI ?	Mindfulness-based stress reduction therapy can be used to improve the quality of life of patients with chronic pain.





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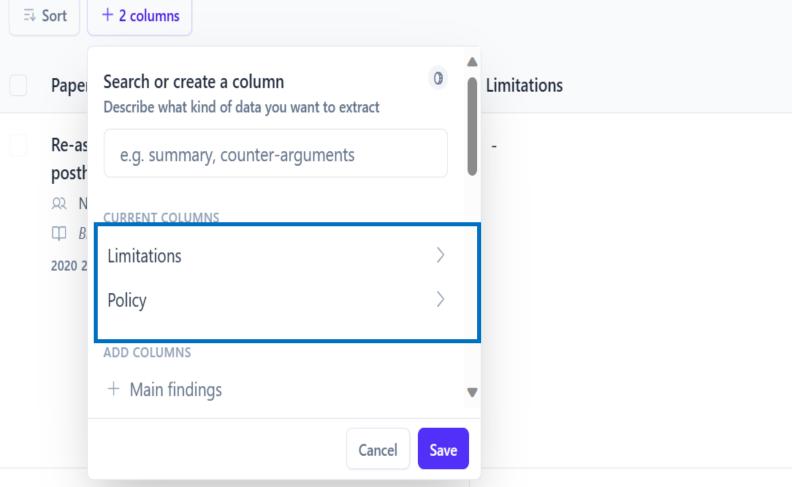
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Re-assembling climate change policy: Materialism, posthumanism, and the policy assemblage

Q Nick J Fox +1

Integrating Public Health into Climate Change Policy and Planning: State of Practice Update

A Mary Fox +4



Integrating Public Health into Climate Change Policy and Planning: State of Practice Update

- A Mary Fox +4
- International Journal of Environmental Research and Public Health

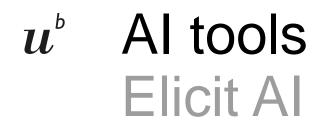
search was limited in scope and language, and the literature itself presents limitations due to insufficient research attention focused on low and middle income populations and intervention evaluation more broadly The text discusses the concept of policy development in the context of integrating public health into climate change policy and planning. It does not mention a specific policy or set of policies. Therefore, the answer is not mentioned

2019 58 citations

Policy The text defines social policy as "an initiative devised by a government, institution or organization to address issues bearing upon economic and political stability; continuity, security and cultural integrity, individual and collective safety; or liberty and rights to citizenship" (Shore & Wright, 1997, pp. 30-31). It also describes policy as "a material semiotic engagement or intervention that addresses an issue, event or interaction, with the objective of improving or reforming the social or natural world" (Taylor Webb & Gulson, 2012, pp. 87-88)

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✗ List of concepts

3

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What concepts are you looking for across papers? e.g. treatments for hair loss, scientific fact-checking datasets

Ⅲ List of concepts

Non-medical interventions to improve psychological outcomes in amputee patients

O Found 60 papers

- O Found 131 concepts in 60 papers
- O Found 71 unique concepts
- Final answer

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a treatment for amputees' phantom limb pain using

immersive virtual reality.

	Concept	Source	Results C. Murray 2005 X
	Immersive Virtual Reality Therapy a treatment for amputees' phantom limb pain using immersive virtual reality. Structured Psychotherapeutic Intervention Module (PIM) a structured module developed for the intervention of amputee patients, involving six therapy sessions that address specific areas of concern, found to be effective in reducing psychological distress, depression, and anxiety.	"This paper describes a study protocol to investigate the use of immersive virtual reality as a treatment for amputees' phantom limb pain.", "This work builds upon prior research using mirror box therapy to induce vivid sensations of movement originating from the muscles and joints of amputees' phantom limbs." C. Murray 2005 "Structured psychotherapy produle was developed for the intervention.", "Patient of PIM group were given six therapy sessions, add to mg the specific areas of concern." K. Srivastava & S. Chaudhury 2014	Immersive Virtual Reality as a Rehabilitative Technology for Phantom Limb Experience: A Protocol C. Murray, E. Patchick, S. Pettifer, Fabrice Caillette, T. H Cyberpsychology, Behavior, and Social Networking
	Exercise-based amputee rehabilitation program a program aimed at improving postural control and quality of life in people with unilateral transtibial amputation (TTA)	"This study aimed to investigate whether the exercise-based amputee rehabilitation program improves postural control and quality of life in people with unilateral transtibial amputation (TTA).", "People with unilateral TTA who received	2005 78 citations Semantic Scholar 7 DOI ∂
		exercise-based amputee rehabilitation program demonstrated significant improvement in balance performance with significant effects on quality of	Immersive Virtual Reality Therapy

life." Masoud Kashfi 2021

This paper describes a study protocol to investigate the use of immersive virtual reality as a treatment for amputees' phantom limb pain. This work builds upon prior research using mirror box therapy to induce vivid sensations of movement originating from the muscles and joints of amputees' phantom limbs. The present project transposes movements of amputees' anatomical limbs into movements of a virtual limb presented in the phenomenal space of their phantom limb. It is anticipated that the protocol described here will help reduce phantom limb pain.

u[▷] Al tools Take-aways

- Al searching tools can be a helpful starting point
- Consult with your advisor regarding policies on the use of AI tools for thesis and dissertations
- For journal submissions, review your target journal's policies on AI use and reporting
- Critically review and fact check generated summaries and references
- Continue to enhance your AI literacy skills

u[▷] Al tools Want to learn more?



AI Tools für Reviews



Tools for Academic Workflows

Useful databases, tools for statistical analysis, data visualization, citation management, and much more.

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Now there is time for...

Questions & Discussion

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