

# Effectiveness of interventions tackling loneliness: A systematic umbrella review

Roundtable: Effective actions to address loneliness 11 October, 2022











### Introduction



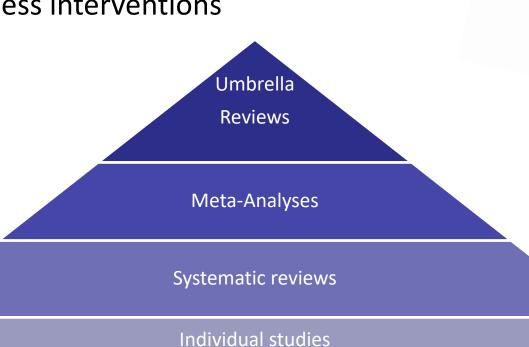
- 1:10 people is severely affected by loneliness
- Significant public health burden
- Intervention strategies are being sought worldwide

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Image by studio4rt on Freepik



# Systematic umbrella review

 Systematic summary of existing reviews and meta-analyses on the effectiveness of loneliness interventions



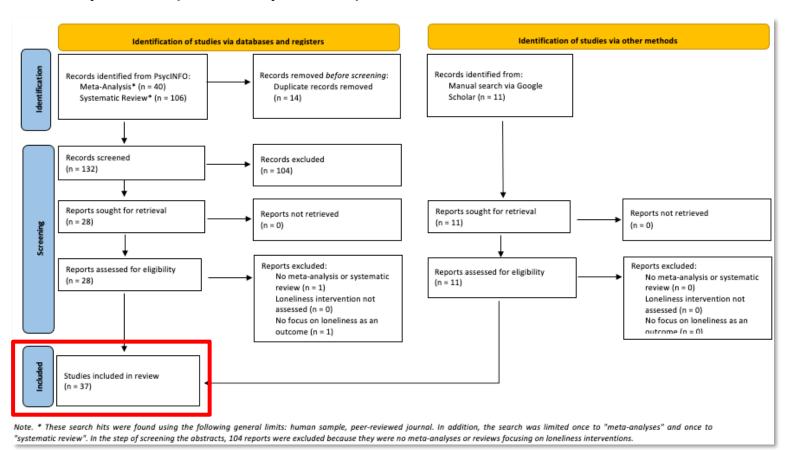
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### Standardized literature search and coding

PsycInfo (January 2022) + manual search



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#### What is an intervention?

- None of the included studies provided an explicit definition of what constituted an intervention tackling loneliness
- We focus on meta-analyses and reviews assessing the effectiveness of measures targeting people who already experience loneliness and aimed at improving their wellbeing by mitigating it
- Target population was sometimes less clearly described 

   mixture of prevention and intervention strategies





### What kinds of loneliness interventions exist?

		Mann et al. (2017)	Masi et al. (2011)	Gardiner et al. (2018)	World Health Organization (2021)	Campaign to End Loneliness (2020)
Intervention categorization	2.	Indirect interventions: broader strategies focusing on health or well-being and thereby may indirectly affect loneliness Direct interventions: - Changing cognitions - Social skills and psychoeducation - Supported socialization - Wider community approaches	1. Enhancing social support 2. Addressing maladaptive social cognition 3. Improving social skills 4. Increasing opportunities for social interaction	1. Health and social care provision 2. Psychological therapies 3. Leisure/skill development 4. Social facilitation 5. Befriending 6. Animal interventions	1. Individual- & relationship-level interventions (e.g., one-to-one or group interventions; digital and face-to-face)  2. Community-level strategies (e.g., infrastructure, volunteering)  3. Societal-level strategies (e.g., laws and policies)	1. Connector services (reach, understand, support) 2. Gateway infrastructure (transport, digital, built environment) 3. Direct solutions (psychological approaches; one-to- one; groups)

https://doi.org/10.1007/s00127-017-1392-y https://doi.org/10.1177/10888 68310377394 https://doi.org/10.1111/hsc.

https://www.who.int/public ations/i/item/978924003074 9

https://www.campaigntoendlo neliness.org/wpcontent/uploads/Promising Ap proaches Revisited FULL REPO RT.pdf





### Overall effectiveness of loneliness interventions

- Across reviews and meta-analyses, most interventions reported reductions in loneliness
- But effects are highly heterogeneous





# Differential effectiveness of loneliness interventions by target group

- Identification of the superiority of one intervention type for a specific target group was not possible
- Majority of studies focused on older adults → most interventions applied to this age group were effective in reducing loneliness
- Increasing focus on technology-based interventions 

   results depending on how and by whom the technology is used





### Differential effectiveness of loneliness interventions by type

- Psychological treatment interventions (e.g., social cognitive training) and—with less consistency across studies—also social support interventions (i.e., offering regular contacts, care or companionship) seemed to be promising approaches across different age groups
- Employing social networks and stimulating social activities also showed effects on loneliness reduction (but smaller effect size)
- The majority of meta-analyses reported no difference in the overall effectiveness of individual vs. group settings





# **Evidence gaps (I)**

- Vast majority of loneliness interventions focused on individual- and relationship-level interventions
  - Less is known on the effectiveness of interventions at community- and societal-level as well as in specific settings (e.g., school-based interventions)
- Most studies did not include a long-term follow-up ->
   sustainability of loneliness interventions remains unclear
- Implementing and scaling up what works best needs to go hand in hand with regular feedback loops and exchanges between service providers and users, as well as researchers and policymakers
- → JRC is conducting qualitative interviews with intervention experts to fill some gaps





### **Evidence gaps (II): Enhancement of reporting standards**

- Information about the target group of the intervention (e.g., sample size, sample selection and recruitment, mean age, age range, gender distribution)
- Information about the baseline loneliness of the interventions' participants (e.g., mean loneliness and their standard deviation)
- Intervention strategy (e.g., social skills training, psychological approaches, social support, ...)
- The duration of the interventions (e.g., two weeks or one year)
- The frequency of the intervention (e.g., weekly or monthly sessions)
- The delivery setting of the intervention (e.g., group, individual or mixed)
- The delivery format of the intervention (e.g., digital/technology-based or in-person)
- Information about measurement and follow-up time points



### Future directions and suggestions for policy implications



- Research-Reality Divide: Do interventions and prevention programs investigated in studies are those which are offered in "real life"?
- Providing wide range of low-threshold loneliness interventions
- Simplification of access routes to interventions
- Consideration of cultural factors
- Targeting of different age and risk groups (and not only older adults)
- Long-term approaches instead of one-off measures
- Support for systematic evaluation of the intervention efforts







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