

Can access to green spaces during parkrun events contribute to the positive mental health of the participants? A literature review

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Can access to green spaces during parkrun events contribute to the positive mental health of the participants? A literature review

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Green Exercise

- Physical activity in natural environments can support mental health.
- Parks are a convenient way for people living in urban areas to access green space.
- A UK-wide survey of 13,000 people found that a common reason for using a park is to attend a parkrun event.¹



Parkrun Events

- Free, weekly, timed 5km event
- Run, walk and volunteer
- Socialise with the local parkrun community
- Tourism and milestones



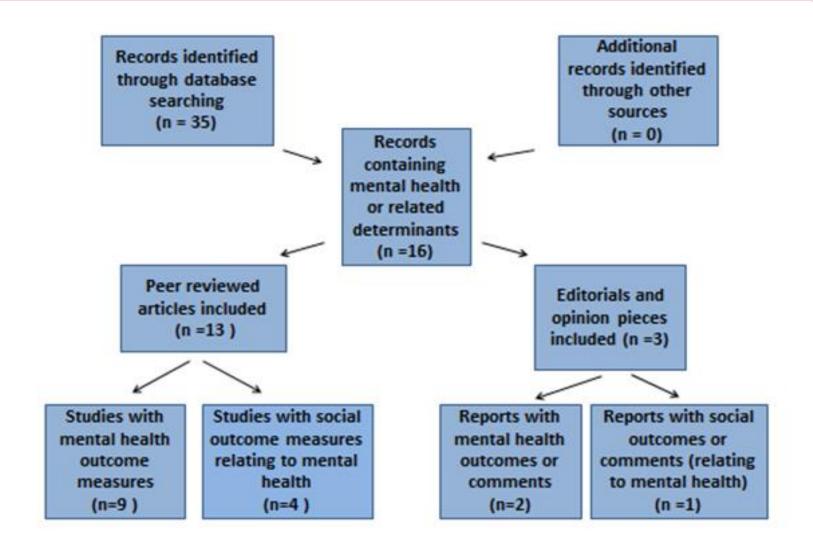
Literature Review

Aims:

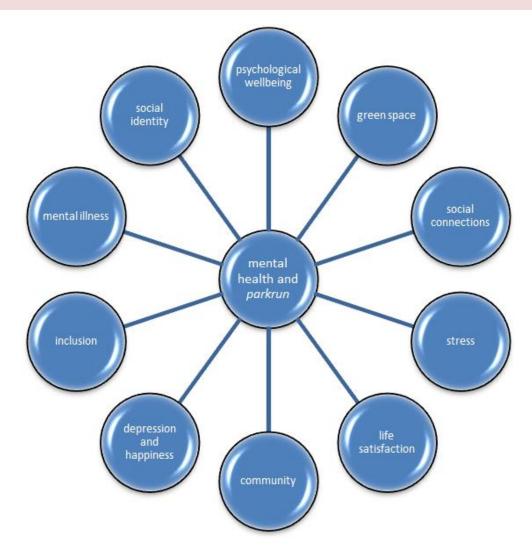
- To determine what research has already been undertaken on the mental health effects of parkrun.
- To identify gaps in the published research to plan further research into parkrun and mental health.



Record Selection Process



Overview



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Outcome Measures

Perceived Stress Scale (PSS) (2 studies)

- 1. Stress scores reduced over time for both novice and regular parkrunners.8
- 2. PSS to measure stress levels immediately before and immediately after a single parkrun event ³ Stress scores were reduced in all the groups studied, where the impact of different green exercise environments were compared.³



Outcome Measures

Other outcome measures were used in only one study;

- Profile of Mood States,
- Short Depression Happiness Scale (SDHS).
- Rosenburg Self Esteem Scale.

Stevinson and Hickson² and Hindley¹⁷ both used the same mental wellbeing 5 point scale, but this does not appear to be a validated scale.



parkrun Health and Wellbeing

- Independent study from Sheffield Hallam University ^{18,19}
- 69% of UK participants reported improvements to their mental health.
- 84% improvement to their happiness for volunteers, compared to 79% for people who did not volunteer



parkrun and Green Exercise

- Only one study specifically addressed the effect of green exercise on parkrun participants³.
- Four different natural environments were compared to determine the effect on psychological wellbeing; beach, grassland, riverside or heritage.
- Sites did not change the effect on psychological wellbeing they all had a
 positive effect to a similar extent.



Conclusion

- *parkrun* is a popular community activity which takes place weekly in parks and green spaces worldwide.
- Only a small number of published studies examined the effect of parkrun participation on mental health.
- Analysis of the parkrun Health and Wellbeing survey mental health data and undertaking a qualitative study related to the results will address this gap in the literature.





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Competing interests:

- AD, SH and HQ are parkrun registrants.
- SH, HQ and AB are members of the independent parkrun research board at the Advanced Wellbeing Research Centre (AWRC) at SHU.



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Questions & feedback welcome.



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Photographs by Padraig Fahey, parkrun ambassador.