

European Regional Development Fund

Evaluation Report

Adding to Social capital and individual Potential In disadvantaged Regions (ASPIRE)



Bournemouth University

Executive summary

Obesity and unemployment are critically intertwined social and health issues which adversely impact life expectancy, quality of life, mental health and lead to increased mortality and morbidity. Whether obesity leads to unemployment, or a consequence of unemployment is not fully understood. There is however strong research evidence showing that both conditions are reciprocal, can be the cause or consequence of each other and have common underlying causes. Research indicates a consistent link between obesity and unemployment and single transitions into unemployment and persistent unemployment have been associated with poor mental and general health and obesity. People on low incomes and unemployed have lower quality diets, higher rates of diet-related disease and higher levels of food insecurity, an issue that has been greatly exacerbated by the cost-of-living crisis and the recent coronavirus pandemic. Many of the barriers to healthy diets are greater for people living in socially deprived communities and on lower incomes and the food system exacerbates these inequalities with negative consequences on health and quality of life. There is therefore an imperative for interventions using a holistic approach to address the underlying social, health and economic determinants.

The Adding to Social capital and individual Potential In disadvantaged REgions (ASPIRE) project was an European Development funded project which sought to co-create a holistic model to address obesity/overweight and unemployment. The partnership consisted of 16 partner organisations and the project was implemented in 9 sites across France and the United Kingdom. Intervention activities focused on nutrition, health and wellbeing, self-esteem and soft skills to promote healthier lifestyles and provide participants with the skills and support they need to gain access to the labour market.

In order to determine the effectiveness of the ASPIRE model, a realist evaluation was conducted to determine which aspects of the ASPIRE model were effective, under which circumstances, for whom and how to adapt the model to different contexts. The project was evaluated using a mixed methods approach consisting of innovative quantitative and qualitative methods. Quantitative data was collected using the health kiosk and an evaluation toolkit comprising of validated instruments to assess diet quality, self-efficacy, health-related quality of life and employability. The health kiosk is an innovative, interactive health and wellbeing engagement tool based on validated measures which allows users to do a health MOT, by measuring body composition and other health and wellbeing metrics. The qualitative

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aspect of the evaluation was conducted using Photovoice, a novel community-based participatory research (CBPR) and visual research method whereby participants take photographs to document, think, and talk about their experiences. The technique is empowering, a catalyst for social change, allowing individuals to tell their own stories from their own perspectives, bringing impacts ranging from an increased sense of accomplishment to a deeper understanding of the reality of participants' daily lives.

Key findings from the evaluation are highlighted below:

- Engaging communities around the ASPIRE implementation sites using the health kiosk provided an accessible and effective way to stimulate conversations around health and wellbeing. A total of 2473 participant data were obtained from the Health Kiosk via road shows (63.8%), UK hubs (5.2%) and French hubs (30.9%). Data from health kiosk provided insights on the link between body composition measurements and motivations for engagement around individual's health and highlights the health kiosk as an alternate and accessible health engagement tool.
- Data from 20 participants included in the Photovoice study showed that prior to ASPIRE, participants experienced significant challenges with unemployment, healthy weight status with underlying causes linked to mental wellbeing, anxiety, depression and hopelessness. Participation in ASPIRE resulted in positive outcomes including improved mental wellbeing, self-efficacy, value of healthy produce, cooking and eating and an overall sense of hopefulness.
- Strategies that were successful in implementation and engagement included activities co-created with participants, with higher social engagement, providing incentives and interpersonal relationships between hub coordinators and participants.
- Evaluation data captured from an average of 279 participants across the 5 questionnaires included in the toolkit showed marginal changes in overall diet quality, health-related quality of life, self-efficacy and health and wellbeing however these were not statistically significant. There were positive outcomes on some subscales of health-related quality of life, physical health, self-efficacy and future employment aspirations which warrant further investigations.

Overall, the findings from the project provide preliminary evidence showing the feasibility of implementing a holistic model to reduce unemployment and obesity. The results highlight the importance of co-creation, coordination and innovative strategies that are effective in engaging individuals from socially deprived communities around their health, wellbeing and

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employability. A key barrier to the project was the impact the COVID-19 pandemic which delayed the setup of project sites, affected relationship building, implementation activities and participant recruitment thereby limiting the success of the model. Additionally, the timelines for the evaluation needed to be adapted, preventing long-term follow up of participants. Future implementations of the ASPIRE model require considerations for intensity of activities, length of follow up, resources and personnel to facilitate deeper engagement with participants, trust and ultimately the successful implementation of the model.



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1 INTRODUCTION

1.1 Background and rationale for project

Obesity is a leading risk factor for the global burden of diseases (1) and a major contributor to all-cause mortality, morbidity and decline in both quality of life and life expectancy (2–4). Of a greater concern is recent data showing that individuals with obesity are at a greater risk of morbidity and mortality from coronavirus disease 2019 (COVID-19)(5–7). Data from the Health Survey for England (HSE) indicates an overweight or obese prevalence of 66.9% in adult men and 59.7% in adult women (8). In France, the prevalence of overweight (including obesity) in adults was 54% in men and 44% in women (9). Apart from being a health risk factor, obesity is strongly associated with unemployment, social disadvantages and reduced socioeconomic productivity (10) and poor individuals is Europe are 10-20% more likely to be obese compared to individuals in high income brackets (11–13).

Consistent with global trends, obesity across the France Channel English (FCE) area (South and East Coasts of England and the North Coast of France) is a significant concern. In this region, high levels of obesity have been shown to coincide with high rates of unemployment. In the British household Panel Survey (BHPS), job loss was associated with weight gain of 1.56kg/year and with significant decline in wellbeing and increased sleep deprivation (14). Several causal pathways have been postulated to explain the link between unemployment or socioeconomic deprivation and high body mass index (BMI). Unemployment leads to more households experiencing a decrease in income, which calls for new strategies to cope with restrained household budgets and may lead to unhealthy diets. Individuals in lower income households are increasingly consuming diets which may be able to satisfy caloric needs but are poor in micro-nutrient density, dietary variety and high in sugar and fat, leading to poorer health outcomes (15). Data from the HSE survey shows that only 29% of adults consumed the recommended five portions of fruit and vegetables a day. Higher consumption of fruit and vegetables was also associated with higher income, and vice versa: 36% of all adults (32% of men and 41% of women) in the highest income quintile had consumed five or more portions of fruit and vegetables on the previous day compared with 23% of all adults (20% of men and 25% of women) in the lowest quintile (16). Fresh, local, healthy food options are often more expensive and are more difficult to cook, therefore individuals cope by buying much cheaper food (highly processed meat products, high fat and sugar foods) or resort to 'take-aways' or 'fast food' which requires no cooking (13,17,18).

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Additionally, of those in the highest income quintile, 42% of men and 34% of women undertake at least five 30-min sessions of moderate or intensive physical activity (PA) per week, compared to 31% and 26%, respectively, in the lowest quintile (19). Data from the French Health Study on Environment, Biomonitoring, Physical Activity and Nutrition (Esteban) showed that 53% of women and 71% of men achieved the World Health Organisation (WHO) recommendations on physical activity for health however, 90% of adults reported more than 3 hours of sedentary activities per day and 42% of adults more than 7 hours (20). More recent data also showed that during the coronavirus pandemic, half of the population did not meet the recommendations for physical activity was also more prevalent people in lower professional categories, with no professional activity, women with fewer qualifications, time off work or partially unemployed (20).

In contrast obesity is considered a cause for lower income when obese people drift into lowerincome jobs due to labour-market discrimination and public stigmatisation (21). Research suggests that obese individuals are more likely to be perceived as lazy, unsuccessful, weakwilled and undisciplined resulting in negative discrimination due to body weight in the labour market, including higher job insecurity and lower chances of obtaining a job (22,23). In a longitudinal study using data from over 120,0000 adults across 21 European countries, obesity decreased employment chances and chronic conditions linked with high BMI negatively affecting employment likelihood and increased the intention to retire early (24). Furthermore, psychological distress and subsequent emotional eating as a consequence of both obesity and unemployment provide a serial pathway linking unemployment to obesity. Maladaptive coping strategies, such as eating energy-dense foods to alleviate negative emotions and stress, coupled with stress-induced disturbances to metabolic signals promote weight gain and obesity over time (25). The negative social, psychological, emotional, and behavioural consequences of obesity exacerbate psychological distress and maladaptive eating behaviours, can thus create a cyclic mechanism (25).

Although it has been well established that obesity and unemployment are strongly linked, existing services to tackle obesity and unemployment rarely work together to address the issue holistically. Additionally, there is a lack of interventions examining how the underlying causes of unemployment and obesity can be addressed using common strategies. The main public health interventions used to tackle obesity focus on information campaigns, advertising and labelling rules and regulation of nutritional claims (26). While these types of interventions

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inform people about food characteristics, they are not able to successfully induce people to make healthier food choices. Interventions focused on improving the income of economically disadvantaged individuals with additional effect of improving health are required. Further research is also needed on how individuals with obesity can best be supported to obtain and maintain employment.

1.2 Overall objective

The aim of the project was to provide individuals who were unemployed or living with obesity or overweight the skills they need to make healthier lifestyle choices and to improve their employability.

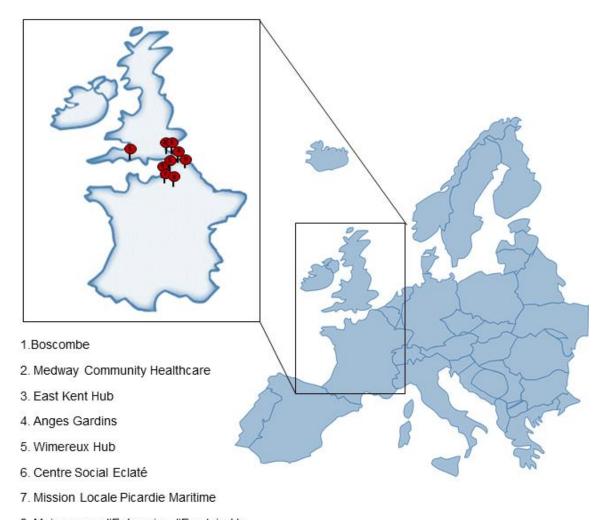
1.3 Overview of the ASPIRE project

The Adding to Social capital and individual Potential In disadvantaged Regions (ASPIRE) was an innovative project which sought to create a new model for service delivery combining healthy weight and employability services to address unemployment and obesity in the FCE region. The ASPIRE project targeted individuals living with overweight, obesity and unemployed population across the FCE zone, using food production as a way to increase awareness and engagement, reduce weight, increase self-esteem, improve employability via new skills and work experience. ASPIRE aimed to improve the quality and effectiveness of service delivery to socio-economically disadvantaged communities by co-ordinating healthy lifestyle opportunities with a pathway into employment. The health-based interventions cocreated with ASPIRE partners will be adapted to socially and economically disadvantaged communities to reduce obesity and overweight and increase employability.

1.4 Setting

The ASPIRE project was implemented across the 9 sites located in the FCE region (**Figure 1**). The FCE area covers the South and East Coasts of England from Cornwall to Norfolk, and the North Coast of France from Finistère to Pas-de-Calais. The sites in France were located in Peronne, Lille, Abbeville, Wimereux, Boulogne sur Mer and Loos-en-Gohelle. The sites in the United Kingdom were located in Aylesham, Medway and Boscombe.





8. Maison pour l'Entreprise, l'Emploi et la Formation Santerre Haute Somme

9. Vivons en Forme (Association FLVS)

Figure 1: Location of ASPIRE project hubs

1.5 **Project partners**

The project was implemented together with 16 cross-border partners across UK and France involved in health, employment and social service provision. A full list of partner organisations is listed below:

- The Health and Europe Centre (Project Lead)
- Bournemouth University (Evaluation partner)
- Dover District Council
- Kent County Council
- Kent Community Health NHS Foundation Trust



- Wellbeing People
- Mission Locale Picardie Maritime
- Maison pour l'Entreprise, l'Emploi et la Formation Santerre Haute Somme
- Centre Social Audrey Bartier
- C3 Collaborating for Health
- Bournemouth, Christchurch and Poole Council
- Anges Gardins
- Vivons en Forme (Association FLVS)
- Your Leisure
- Medway Community Healthcare
- Centre Social Eclaté

1.6 The ASPIRE model

The activities in ASPIRE model focused on health-improving lifestyle interventions to achieve outcomes related to weight loss, increased employability and general improvement in health and quality of life. In order to improve acceptability and enhance participation, interventions were tailored to meet the different needs of participants who were at different stages of their weight loss or employability journey. Interventions were co-designed with participants to ensure ownership of the model and were adapted by the different implementation sites to suit their capacity, resources and potential participants. The ASPIRE model consisted of three interconnected elements and a fourth element which linked the different elements together. The three elements included the following: (1) being active (grow your own), (2) healthy food and nutrition (eat your own), (3) achieving personal goals and improving employability (sell your own). The fourth element was improving self-esteem through enhancing wellbeing, community engagement and accountability. It is important to note that the ASPIRE model uses a holistic approach and therefore all the elements were linked to each other via the core outcome of increasing self-esteem and support within the community. **Table 1** outlines the different elements and details of interventions under each element.



ASPIRE element	Activity	Learning outcomes
Sell your own	 Image consulting workshop Money skills course Optional 1-2-1s coaching Employability coaching Digital workshops DIY Create your own cosmetic 	 Achieving goals and employability Have knowledge about the different activity, employment, and self-employment opportunities available to them Feel supported to achieve their goals and return for continued support throughout their Journey Be able to define barriers for activity/employment and how to overcome these Be able to set their own goals for achieving the level of activity or employment that they're seeking
Eat your own	 Cooking workshops Basic Cookery Canning Nutrition classes 	 Healthy food Use locally and personally produced fruit and vegetable in recipes Buy the right healthy products in a shop within their budget Cook a healthy meal Be able to define their barriers for healthy lifestyle Be able to define how to overcome these barriers Be able to set their own goals for achieving a healthy lifestyle (incl. physical activity and nutrition)
Grow your own	 Food growing workshops Gardening Fitness Course Adapted physical activity Cycling Boxercise Guided Walks Wellbeing Walks 	 Being active Cultivate food in a community allotment or personal setting Be physically active every day Be able to define their barriers for healthy lifestyle Be able to define how to overcome these barriers Be able to set their own goals for achieving a healthy lifestyle (incl. physical activity and nutrition)

Table 1: Core elements, activities and learning outcomes for the components of the ASPIRE model

Self-esteem

&

- support in the community
- Self-esteem workshop
- Self-awareness workshop
- Individual appointments
- Naturopathy
- Nature for Wellbeing
- Sophrology and well-being
- Silent yoga
- Qigong
- Introduction to meditation
- Art therapy / Art
- Crochet
- Members' tea party
- Choir
- Community singing
- Big Fun Small Change
- Men in Sheds
- Drama

Self-esteem & support in the community

- Describe their own feelings
- Feel confident, supported, happy and relaxed
- Feel empowered achieving a healthy lifestyle (incl. physical activity and nutrition) and achieving personal goals (incl. employment, volunteering, role within their community etc...)
- Feel confident to return/stay in contact with other hub participants

2 COMMUNITY ENGAGEMENT & CO-CREATION

As part of ASPIRE, C3, an ASPIRE partner engaged with 7 communities in England and France using its innovative community engagement strategy CHESS® (Community Health Engagement Survey Solutions), to deliver 7 community co-designed action plans for change. Below are summary of results from the ASPIRE hubs.

2.1 Boscombe

Activities

C3 has reached approximately 300 Boscombe community members via a range of activities. In Boscombe, C3's Zoe Keeping has managed the delivery of the community's CHESS® action plan. A resident herself having worked and lived in Boscombe for over 20 years Zoe is passionate about the community driving change and ensuring all voices are heard. Activities ranged from community clean-ups bee-bombing and rewilding a community choir "good grub' healthy cooking classes and campfire cooking hula-hooping, dancing and mocktails a pop-up public living room community picnics and parties.



Figure 2: CHESS action plan for the Boscombe hub

Impact

- 58% of survey respondents reported they are eating more fruit and vegetables per day and doing more physical activity since participating in CHESS® Action Plan activities.
- 79% of survey respondents reported that they had learned more about healthy eating and the importance of physical activity by participating in CHESS® Action Plan activities.



- 58% of survey respondents reported that participating in CHESS® Action Plan activities has provided them with new skills to help them make changes in their community.
- 79% of survey respondents reported that participating in CHESS® Action Plan activities has improved their knowledge of health challenges in their community.

2.2 Medway

Activities

C3 reached approximately 350 community members in Gillingham South, Medway. C3's Community Engagement Facilitator Lisa Malone implemented the CHESS® action plan since January 2022. Activities were creative and included cooking healthy pizzas, creating healthy snacks for a jubilee picnic, zumba classes for plus-sized ladies, yoga classes, creating edible window boxes, bee-bombing, word-hunts and weekly community health walks. This created opportunities to come together as a community emerged as a strong theme from C3's community engagement. In the hot summer of 2022 Lisa organised a community fun day and picnic, which included 'gentle' competitive games to get people moving together. BBC Radio Kent featured Lisa's brilliant work in Medway promoting her Christmas word-hunt.





Figure 3: CHESS action plan for the Medway hub

Impact

- 83% of participants surveyed reported that they had learned more about healthy eating and the importance of physical activity through participating in CHESS® action plan activities.
- 88% of participants surveyed reported that they do more physical activity since participating in CHESS® action plan activities.



- 67% of participants surveyed reported that CHESS® action plan activities enabled them to develop new skills to help them create change in their community.
- 75% of participants surveyed reported that CHESS® action plan activities increased their knowledge of the health challenges in their community.

2.3 Lens

Activities

C3 reached more than 600 people in Lens. Stéphanie implemented action plan activities in Lens for almost 2 years. She set up cookery workshops with lots of recipes based on inexpensive plant proteins, meditation workshops and nature walks to discover plants and animals. The participants are very diligent and repeated the recipes at home and found that the meditation workshops helped to reduce their stress levels. The activities were also adapted to the changing the changing seasons and Stéphanie has been in touch with local stakeholders and participates in all local events.

CHESS® ACTION PLAN



Figure 4: CHESS action plan for Lens

Impact

- 72% of participants said they were eating more fruit and vegetables since taking part in action plan activities.
- 66% of participants responded that they were more physically active than they do in activities linked to the action plan.
- 63% of participants replied that they had shared their knowledge about food and physical activity with family members or family members or neighbours.



physical activities

• 78% of participants responded that their health had improved since taking part in the action plan.

2.4 Ham

Activities

C3 reached more than 150 people in Ham. As part of the ASPIRE project, Magali, coordinator of the action plan for C3, worked with the Social Centre of Ham and local stakeholders to organize family events, cooking workshops, physical activity classes, walking groups, gardening classes and provided food baskets redistributed at low cost to families. Magali also coordinated the various workshops around gardening, cooking and physical activity.

CHESS® ACTION PLAN



Figure 5: CHESS action plan for Ham

Impact

- 71% of participants said they learned new things about healthy eating and physical activity.
- 57% of participants said they eat more fruits and vegetables since they have taken part in the activities related to the action plan.
- 41% of participants answered "likely or very likely" when asked how likely they were to maintain an increased level of physical activity over time.



 54% of participants answered "Yes" when asked if their participation in activities related to the community action plan had improved their knowledge of health issues in their community.

3 EVALUATION METHODS

3.1 Theoretical framework

A realist (RE) evaluation method designed as a multidisciplinary and mixed-method process was used to examine the effectiveness of the ASPIRE model. Realistic evaluation uses key linked concepts ('mechanism', 'context; and 'outcomes') for explaining and understanding programmes. This is known as the CMO configuration. A CMO configuration is a proposition stating what it is about an intervention that works, for whom and in what circumstances. This approach enabled the development, validation and refinement of mid-range theories that account for how the Context in which ASPIRE intervention activities are implemented influence intervention *Mechanisms* (e.g., participants reasoning in uptake of interventions) to produce intended and unintended Outcomes (decrease in weight, BMI or unemployment). Realist evaluations are based on the assumption that the success or failure of interventions are dependent on certain conditions, complex interactions of causal mechanisms and are heavily influenced by the way that different stakeholders respond to them (27). Context refers to broad social or geographical features as well as factors affecting the implementation of programs (e.g., setting of intervention, adequate funding, the qualifications of staff) (27-29). The context within which a project is implemented can influence the way in which, or the extent to which, a programme is implemented, who it targets and who it reaches. The mechanism is the underlying causal process which informs how and why an intervention works and for which participants (27). Mechanisms can be intended and unintended, generating both positive and negative outcomes and are filtered through people, who have an ability to interpret and respond to them differently (27,28,30). Therefore, evaluation of an intervention's effectiveness should include how different people experience and respond to it and why. The RE method is particularly suited to evaluating new and complex interventions that seem to work but 'for whom and how' is not yet understood. While several of the interventions incorporated in the ASPIRE model have been used to independently reduce overweight or obesity and unemployment, there is limited evidence on how the combination of such interventions work holistically to reduce obesity and unemployment. The conceptual framework using CMO configuration to map the pathway from intervention to outcomes is illustrated in Figure 6. The

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initial programme theory represents the underlying assumptions about how interventions implemented in ASPIRE are meant to work and what impacts they are expected to have.



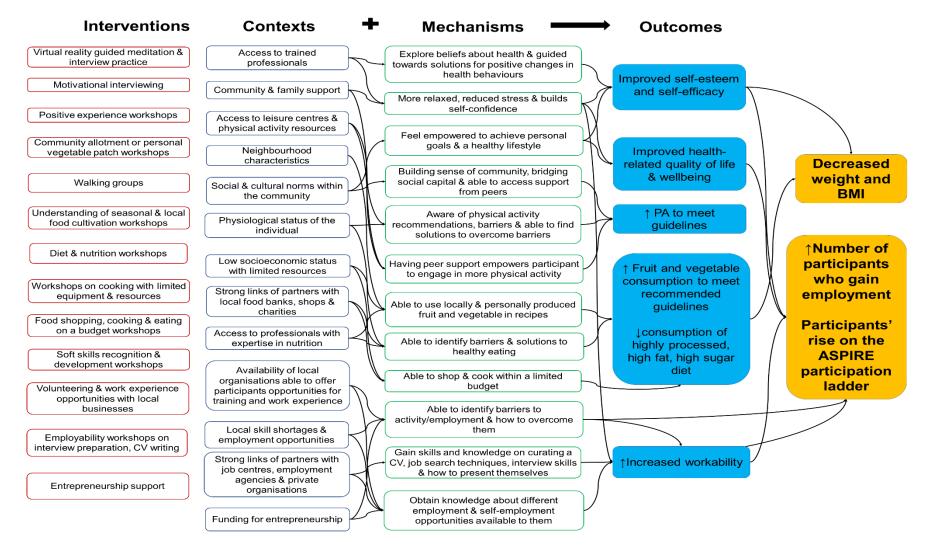


Figure 6: Conceptual framework illustrating the contexts-mechanism-outcome configuration underlying the ASPIRE model. Abbreviations: BMI, body mass index, CV, curriculum vitae, PA, physical activity

3.2 Strengths, weaknesses, opportunities, threats (SWOT) analyses

Gap and strengths, weaknesses, opportunities, threats (SWOT) analyses (**Table 2**) was conducted in collaboration with stakeholders to help identify existing resources within organisations which could enhance the implementation of the ASPIRE model. Furthermore, weaknesses and threats to the project were identified and strategies were implemented to mitigate the risks identified.

Table 2: Strengths, weaknesses, opportunities, threats (SWOT) analyses

Strengths	Weaknesses
 Partners already involved in services providing healthy lifestyle, wellbeing and employability activities. Experience in working with hard-toreach, vulnerable and isolated individuals and communities. Experience with other EU-funded projects and expertise working on similar projects in both England and France. Long history and experience in working with local stakeholders to deliver similar community projects. Strong partnership with local businesses and stakeholders delivering employability and health and wellbeing services. Wide and diverse range of skills and expertise between project partners. Partners have strong links with job centres, local charities, primary care, probation, drugs and alcohol services. Project uses innovative approaches including technology and use of gaming. 	 Additional skills from experts may be required in the design and implementation of certain project activities. All partners working together to both develop and implement ASPIRE model effectively. Challenges with identifying ASPIRE participants and promoting the project. Challenges with monitoring and follow-up of participants over a long period of time. Implementation plan not established at the outset with defined inclusion/exclusion criteria and time frames leading to delays in evaluation and obtaining ethical approval.
Opportunities	Threats
 Resources can be mobilised from all partners to help in developing the model and in the implementation of activities. Establish links between health and well-being and employability 	 Changing Covid-19 situation and social distancing requirements will affect implementation of activities and participant numbers. Effective strategies to market uptake of project activities by participants.

 professionals and services within ASPIRE communities. Adoption of good practices from both health and wellbeing and employability sectors. 	 High participant drop-out rates. Meeting participant recruitment targets that is balanced across all implementation sites. Meeting project timelines. Project needs to be equipped for
 Strengthen existing links between job centres, local charities, primary care practitioners to improve the health and wellbeing of hard-to-reach communities. Develop a network of organisations providing training in employability skills, work experience as well as a network of local food growers, producers and suppliers. 	managing challenges related to

3.3 Realist synthesis

A realist synthesis was conducted to identify the common strategies used by health-related interventions to reduce obesity, overweight and unemployment and to determine for whom and under what circumstances these interventions were successful or unsuccessful and why. This review was able to identify contextual mechanisms that determined observed outcomes and how those involved in health-related interventions to reduce obesity and unemployment tended to respond to the intervention. It also uncovered a number of overlooked perspectives which should be included in future research.

A total of 8 CMOs were generated building up on the initial programme theory. These are as follows (the letter, C-context, M-mechanism and O-outcomes). The CMOs provide a higher level of abstraction that sets out the underpinning logic behind the family of interventions strategies identified to address unemployment and obesity.

1. CMO1: When participants with limited knowledge about healthy eating (C) are provided with the requisite knowledge and skills, and able to apply these new knowledge and skills (M), their healthy eating behaviour is improved (O).



- 2. CMO2: When participants with low educational status (C) are provided with an intervention delivered in their native language, there is higher acceptance, and they are able to utilise the new skills to successfully execute new behaviour (M) and will improve healthy eating behaviour (O).
- **3. CMO3:** When participants are provided with healthy eating and physical activities tailored to their needs (C), they are able to incorporate skills and strategies into daily routine, successfully execute new skills (M) and reduce their weight and BMI (O).
- **4. CMO4:** When participants with low income (C) are provided with financial incentives and resources, they are able to purchase healthier food options (M) and will improve their healthy eating behaviour (O).
- 5. CMO5: When participants receive healthy eating and physical activity interventions in group settings (C), they are able to obtain social support from peers (M) and will increase their physical activity levels and improve healthy eating behaviours (O).
- 6. CMO6: When participants with limited knowledge and job search skills (C) are provided with job search skills training, they are able to apply these skills in their job search (M) and will obtain employment (O).
- **7. CMO7**: When labour market conditions are favourable (C) and participants are provided with job search and entrepreneurial skills training, participants are able to develop and apply their new employability skills (M) and will obtain employment (O).
- 8. CMO8: When participants with low motivation and self-esteem (C) are offered self-led interventions, they will be able to develop self-regulatory skills, maintain perceptions of control over situation (M) and improve their self-efficacy and self-esteem (O).

The findings showed that multicomponent interventions combining different strategies, tailored to participants, using a mix of knowledge and skill building, motivational approaches and hands-on practice resulted in positive outcomes. Participant characteristics that influenced the outcomes included age, gender, educational status, income level and these should be considered when tailoring interventions. Taken together, the review contributes to an emerging field in systematic review, in which qualitative approaches compliment and extend the findings of quantitative reviews and highlights a co-produced rather than prescriptive approach to the design and implementation of health-related interventions to reduce overweight, obesity and unemployment.

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3.4 Participants

Participants for the study were recruited from communities within the 9 ASPIRE implementation sites. Recruitment was carried out at community and unemployment centres, via flyers, online posts, posters and referrals from general practitioners, weight management clinics and social prescribing. Ethical approval for the evaluation was obtained from the Bournemouth University Research Ethics committee (Ethics ID: 33136) and the NHS (IRAS project ID is 288333).

3.5 Data collection

Consistent with realist principles and methodology, a mixed-method approach was used to collect data for evaluating the project. Quantitative data was collected at baseline and at 12 weeks in order to assess the effectiveness of ASPIRE activities. Qualitative data was collected at the end of taking part in ASPIRE to document participants experiences of taking part in the project.

3.6 Quantitative data

Quantitative data was collected using a digital evaluation toolkit comprising of 5 surveys which assessed diet quality, health-related quality of life, self-efficacy, engagement with ASPIRE and health, wellbeing and activity. The online surveys included questions on socio-demographic characteristics including age, gender, level of education and duration of unemployment.

3.7 Data collection tools

 Wellbeing People Interactive Health Kiosk: Anthropometric and body composition measures including weight, BMI and body fat percentage were measured using the Wellbeing People Interactive Health Kiosk (Model Number: SLF007 - Marden, Kent, England; Figure 7). This was through roadshows in the UK and at the ASPIRE hubs in France and the UK. In order to ensure consistency across all ASPIRE hubs, the measurements were carried out according to standard protocol and all hub coordinators received training on how to use the Health Kiosk.





Figure 7: Health Kiosk from Wellbeing People



2. The ASPIRE participation/employability ladder: The ASPIRE participation/ employability ladder (Figure 8) consisting of a series of 5 steps linked to activities and outputs were used to map participants' progress through ASPIRE. The steps on the ladder were as follows: 'Join an ASPIRE hub', 'Regularly attend hub', 'Begin employment training', 'Volunteer/work experience' and 'Paid employment'.

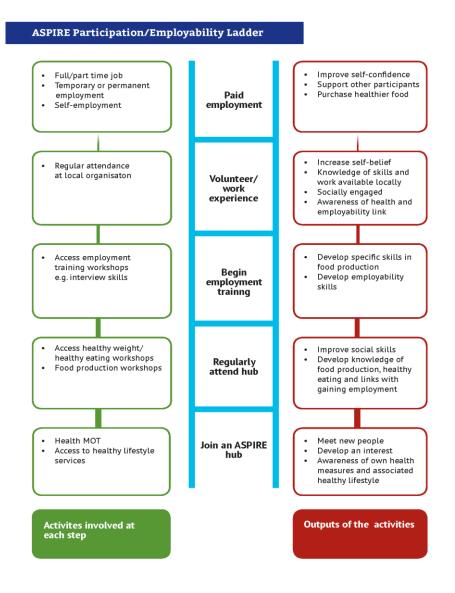


Figure 8: The ASPIRE participation/employability ladder describing the series of steps, activities and outputs.

3. Semi-quantitative food frequency questionnaire (FFQ): This was used to measure food intake and diet quality. The FFQ was a validated tool which included 183 food



items and a section with open questions. The instrument was an adapted version of the Metacardis (31) and EPIC FFQs (32,33) to reflect the general diet in France and England and was suitable for use in both countries. Using standard portion sizes, the FFQ measured an individual's habitual food and nutrient intake during the past year. Validation studies have shown the instrument to accurately estimate dietary intake with significant correlations with biomarkers and other dietary assessment methods.

- 4. The General Self-Efficacy Scale: Self-efficacy was assessed using The General Self-Efficacy Scale (GSE)(34). This is a 10-item self-administered scale which assesses a general sense of perceived self-efficacy with the aim of predicting how individuals cope with daily challenges and adaptation after experiencing all kinds of stressful life events. Responses are based on a 4-point scale and the sum up of responses to all 10 items yield a final composite score ranging from 10 to 40 with a higher score indicating more self-efficacy. The scale has been validated for use in general adult populations, and in samples from 23 different countries, Cronbach's alpha ranged from 0.76 to 0.90 indicating high reliability. The GSE has been shown to positively correlate with emotion, optimism, work satisfaction. Negative coefficients were found for depression, stress, health complaints, burnout, and anxiety (35).
- 5. EuroQol EQ-5D-5L: This instrument was used to assess participants' health-related quality of life. Th EQ-5D-5L consists of a short descriptive system questionnaire and a visual analogue scale (EQ-VAS) and provides a simple descriptive profile of a respondent's health state. The instrument is one of the most widely used globally for measuring health status and has been proven to be valid, reliable and sensitive in varied populations (36–38).
- 6. Health, wellbeing and activity: This instrument was used to collect data on selfreported health status and workability. Self-reported health status will be assessed using 5-items on the health, wellbeing and activity questionnaire consisting of questions asking participants to rate their physical health over the past 30 days.

3.8 Qualitative data

Qualitative data was collected using the Photovoice method. Photovoice is a communitybased participatory research (CBPR) technique whereby participants identify, represent, and enhance their community through photographs and narratives (39). As a methodology, photovoice has been used extensively in research to explore wellbeing and enabled participants to identify activities and places that enhanced their wellbeing (40). It has also been used in studies on unemployment and food insecurity (41), and as a useful tool to engage with



disadvantaged groups (42). The technique has been shown to act as a catalyst, bringing impacts ranging from an increased sense of accomplishment to a deeper understanding of the reality of participants' daily lives (42). Using participatory visual methods enabled participants to create their own stories. Participants were able to exercise control over the presentation of themselves, their wellbeing and their employability aspirations through the process, and using visual images such as photographs was shown to empower participants to recognise their autonomy (43). Within the ASPIRE project, a subset of participants were purposively sampled and encouraged to take at least 7 images of what the project meant to their wellbeing and/or employability over and also completed a logbook documenting each photograph. The photos were further discussed in a semi-structured interview to obtain insights into participants' experience of ASPIRE and impact of the project on their wellbeing and employability. All interviews were recorded on a digital Dictaphone for transcription and analysis.



4 DATA ANALYSIS

4.1 Quantitative data

Statistical analysis of quantitative data was conducted using Statistical Package for Social Sciences (SPSS) IBM statistics (version 26, SPSS UK Ltd Chertsey, UK). The normality of continuous variables will be checked using QQ-plots and the Shapiro-Wilk test. All tests were carried out at the 95% confidence interval and in all analyses, a threshold of p < 0.05 was considered statistically significant. Chi-square tests for independence was used for comparing categorical variables such as sex and employment status. Means and standard deviations were computed for continuous variables including age, body weight and BMI. Paired t-tests were used to examine the effect of the intervention on variables over time. Correlations and regressions or non-parametric equivalents as appropriate were used to examine the relationships between continuous variables. Drop-out from the study was accounted for in the analysis using intention-to-treat principles.

4.2 Qualitative data

Qualitative data (photos and transcript form semi-quantitative interview) were analysed using NVivo Pro 12.5 (QSR International, 2020), which permits the coding of photos as well as text. Interviews were audio recorded with the participants' consent and transcribed. Thematic analysis and content analyses using both deductive and inductive approaches (44) were used to test initial theories while allowing for emergence of new themes, and included stages of familiarisation, coding, indexing and charting, mapping and interpretation. The deductive analysis will enabled to test whether data were consistent with prior assumptions. The inductive approach which guided by specific evaluation objectives allowed research findings to emerge from the frequent, dominant, or significant themes inherent in the raw data.



5 RESULTS

5.1 Health Kiosk

Table 3 below describes the background characteristics of participants who used the health kiosk. A total of 2473 participant data were obtained from the Health Kiosk via road shows (63.8%), at the UK hubs (5.2%) and from the French hubs (30.9%). The majority of participants were female (59.7%) with a mean age of 48±18.6 years. A higher proportion of participants were full-time employed (36.8). Motivations for using the Health Kiosk included the following Worried health (18.8%), Not able to see doctor (5.2%), Encouraged by family or friend (6.8%), Encouraged by staff at hub (23.9%), Health conscious (13.0%), More convenient than visiting doctor (3.5%) and Other (28.9%).

Analysis focused on body composition indicated an average BMI of 28.0±6.1, with the majority of participants in the pre-obesity category (34.8%) and mean body fat composition of 33.3±10.3%. Average blood pressure was 125.8±19.8mmHg for systolic and 82.4±13.5mmHg for diastolic blood pressure.

Variable	n (%), Mean (SD)	
	48.3 (18.6)	
Age		
Sex		
Male	997.0 (40.3)	
Female	1476.0 (59.7)	
Employment status		
Full-time	910.0 (36.8)	
Part-time	375.0 (15.2)	
Unemployed looking for work	247.0 (10.0)	
Unemployed not looking for work	79.0 (3.2)	
Full-time student	57.0 (2.3)	
Home maker	85.0 (3.4)	
Voluntary worker	126.0 (5.1)	
Unable to work due to illness	55.0 (2.2)	
Home carer	20.0 (0.8)	
Retired	476.0 (19.2)	
Other	43.0 (1.7)	
Location of kiosk		
French hub	765.0 (30.9)	
UK hub	129.0 (5.2)	
Roadshows	1579.0 [°] (63.8)	

Table 3: Background characteristics of participants from Health Kiosk (n 2473)



Motivation for using health kiosk	
Worried about health	465.0 (18.8)
Not able to see doctor	128.0 (5.2)
Encouraged by family or friend	168.0 (6.8)
Encouraged by staff at hub	590.0 (23.9)
Health conscious	321.0 (13.0)
More convenient than visiting doctor	86.0 (3.5)
Other	715.0 (28.9)
Body mass index (kgm ⁻²)	28.0 (6.1)
BMI Classification	· · · ·
Underweight (<18.5)	38.0 (1.5)
Normal weight (18.5–24.9)	816.0 (33́.0)
Pre-obesity (25.0–29.9)	861.0 (34.8)
Obesity class 1 (30.0–34.9)	475.0 (19.2)
Obesity class 2 (35.0–39.9)	168.0 (6.8)
Obesity class 3 (> 40)	115.0 (4.7)
Body fat composition (BFC)	33.3 (10.3)
Systolic blood pressure (mmHg)	125.8 (19.8)
Diastolic blood pressure (mmHg)	82.4 (13.5)

Data expressed as mean (standard deviation) for continuous variables and frequency (%) for categorical variables. BMI categorised using World Health Organisation (WHO) classification

Table 4 below illustrates the relationship between motivations for health kiosk use, demography and health status indicators. Motivations for health kiosk use differed according to age, sex and employment status (p<0.001). Within group post-hoc analysis indicated that individuals who used the health kiosk because of worries their health (53.3 ± 17.6 years) or who had limited access to a doctor (53.9 ± 17.4 years) were older compared to individuals encouraged by family or friends (46.1 ± 17.9) or hub staff (37.8 ± 16.4) or health conscious. Participants BMI (p<0.001) and BFC differed significantly in terms of motivations for health kiosk use (p<0.001). Post-hoc comparisons indicated that the mean BMI for health-conscious individuals (26.4 ± 5.2 kgm⁻²) while still in the overweight category was significantly lower compared to individuals worried about health (28.9 ± 6.1 kgm⁻²), encouraged by family (28.8 ± 6.6 kgm⁻²) or encouraged by hub staff (28.2 ± 7.3 kgm⁻²). Similarly, individuals who were health conscious ($30.9\pm8.6\%$) had significantly lower BFC in comparison to individuals who were health conscious ($34.4\pm11.2\%$) or indicated that it was more convenient to use the health kiosk than visiting the doctor ($35.0\pm8.1\%$).



	Worried health	Limited access to doctor	Encouraged by family or friend	Encouraged by staff at hub	Health conscious	More convenient than visiting doctor	Other	p-value
Age	53.3(17.6)	53.9(17.4)	46.1(17.9)	37.8(16.4)	44.3(16.5)	51.5(16.4)	54.5(18.4)	<0.001*
Sex								<0.001*
Male	202(43.4)	51(39.8)	62(36.9)	207(35.1)	119(37.1)	26(30.2)	330(46.2)	
Female	263(56.6)	77(60.2)	106(63.1)	383(64.9)	202(62.9)	60(69.8)	385(53.8)	
Employment status								<0.001*
Full-time	201(43.2)	46(35.9)	68(40.5)	200(33.9)	140(43.6)	37(43.0)	218(30.5)	
Part-time	63(13.5)	12(9.4)	30(17.9)	93(15.8)	63(19.6)	14(16.3)	100(14.0)	
Unemployed looking for work	23(4.9)	7(5.5)	7(4.2)	153(25.9)	27(8.4)	3(3.5)	27(3.8)	
Unemployed not looking for work	22(4.7)	3(2.3)	7(4.2)	27(4.6)	7(2.2)	1(1.2)	12(1.7)	
Full-time student	8(1.7)	8(6.3)	6(3.6)	15(2.5)	12(3.7)	1(1.2)	7(1.0)	
Home maker	10(2.2)	6(4.7)	6(3.6)	25(4.2)	12(3.7)	5(5.8)	21(2.9)	
Voluntary worker	11(2.4)	5(3.9)	6(3.6)	36(6.1)	14(4.4)	4(4.7)	50(7.0)	
Unable to work due to illness	14(3.0)	1(0.8)	4(2.4)	4(0.7)	3(0.9)	1(1.2)	28(3.9)	
Home carer	8(1.7)	1(0.8)	4(2.4)	0(0.0)	1(0.3)	0(0.0)	6(0.8)	
Retired	93(20.0)	38(29.7)	29(17.3)	22(3.7)	40(12.5)	19(22.1)	235(32.9)	
Other	12(2.6)	1(0.8)	1(0.6)	15(2.5)	2(0.6)	1(1.2)	11(1.5)	
Location of kiosk								<0.001*
French hub	53(11.4)	28(21.9)	28(16.7)	408(69.2)	153(47.7)	8(9.3)	87(12.2)	
UK hub	22(4.7)	5(3.9)	13(7.7)	28(4.7)	24(7.5)	8(9.3)	29(4.1)	
Roadshows	390(83.9)	95(74.2)	127(75.6)	154(26.1)	144(44.9)	70(81.4)	599(83.8)	
Body mass index (kgm ⁻²)	28.9(6.1)	28.3(5.6)	28.8(6.6)	28.2(7.3)	26.4(5.2)	27.9(4.6)	27.6(5.5)	<0.001*
Body fat composition (BFC)	35.2(10.2)	34.9(10.2)	34.5(11.2)	32.2(11.8)	30.9(8.6)	35.0(8.1)	33.4(10.3)	<0.001*
Systolic blood pressure (mmHg)	129.6(20.8)	127.8(19.5)	128.5(19.6)	122.5(18.5)	120.7(19.4)	128.0(18.4)	127.2(19.9)	<0.001*
Diastolic blood pressure (mmHg)	83.0(13.7)	83.1(12.0)	84.3(14.3)	82.5(14.6)	80.4(12.8)	83.6(11.9)	82.0(12.7)	0.045*

Table 4: Relation between motivation for health kiosk usage, demography and health status (n 2473)

Data expressed as mean (standard deviation) for continuous variables and frequency (%) for categorical variables. Mean differences significant at the 0.05 level using one-way analysis of variance (ANOVA) and chi-square tests.

Table 5 illustrates the relation between body composition and health and wellbeing metrics. BMI differed significantly for health and wellbeing metrics your body, sleep, exercise, diet and alcohol. Individuals who needed to take action in relation to your body (p<0.001) and diet (p<0.001) had significantly higher BMI in comparison to the other groups. Analysis of BFC and health and wellbeing metrics indicated significant differences for metrics related to your body, sleep and alcohol. Participants categorised as having good wellbeing in relation to alcohol consumption had higher BFC compared to participants categorised as room for improvement (p = 0.001). For sleep and your body metrics, participants with good wellbeing had lower BFC compared to those categorised as room for improvement (p<0.001) and participants needing to take action had the highest BFC compared to the other groups (p<0.001).

Body mass index (kgm ⁻²) mean(SD)						Body fat composition (%) mean(SD)			
Health metrics	& wellbeing	Need to take action	Room for improvement	Good wellbeing	p-values	Need to take action	Room for improvement	Good wellbeing	p-value
Ť	Your body	31.6(6.9)	28.6(7.0)	25.5(5.8)	<0.001	37.2(9.7)	33.1(11.0)	27.3(10.3)	<0.001
Ð.	Sleep	25.1(2.1)	28.8(7.1)	27.2(6.8)	0.007	29.0(6.9)	33.8(11.3)	30.1(10.9)	<0.001
×.	Exercise	29.9(7.9)	28.3(7.1)	26.7(6.3)	<0.001	34.0(12.3)	31.6(11.1)	30.7(10.84)	0.068
	Relaxation	28.4(9.3)	27.8(6.7)	27.8(7.0)	0.912	33.9(13.0)	32.0(10.7)	30.7(11.5)	0.204
*	Homelife	24.0(7.7)	28.4(7.0)	27.4(6.8)	0.056	26.3(13.0)	32.3(11.5)	31.0(10.8)	0.129
	Work life	28.4(7.7)	27.6(8.1)	27.4(6.1)	0.210	31.1(12.4)	31.2(13.0)	31.8(9.8)	0.734
8	Stress	27.8(7.0)	28.0(7.1)	27.4(6.6)	0.548	32.7(10.0)	32.1(11.1)	30.3(11.3)	0.109
Ŭ	Diet	31.3(10.4)	28.4(7.0)	26.9(6.4)	<0.001	33.4(15.5)	32.1(11.3)	30.8(10.6)	0.212
T	Alcohol	28.0(4.6)	26.6(6.3)	28.3(7.1)	0.016	30.0(10.5)	29.1(10.2)	32.4(11.4)	0.001

Table 5: Relationship between body composition and health and wellbeing metrics (n 727)

Data expressed as mean (SD). Mean differences significant at the 0.05 level using one-way analysis of variance (ANOVA).

5.2 Engagement and participation

Engagement and participation in ASPIRE was assessed using the ASPIRE participation ladder. The analysis included data from a total of 322 participants, with 64.6% being female and 55.0% of participants living in France (**Table 6**). At baseline, 59.6% of participants indicated their current step on the ladder as joining an ASPIRE hub compared to 37.0% of participants at post-intervention.

Variable	n (%), Mean (SD)	
Sex		
Male	111(34.5)	
Female	208(64.6)	
Other	3(0.9)	
Age	38.5(17.5)	
Country		
France	177(55.0)	
UK	145(45.0)	
Project site		
AG	29(9.0)	
MLPM	55(17.1)	
MEEF	56(17.4)	
WM	15(4.7)	
MCH	57(17.7)	
BCP	48(14.9)	
YL	38(11.8)	
VIF	11(3.4)	
CSE	13(4.0)	

 Table 6: Background characteristics of participants completing the ASPIRE participation/ employability ladder (n 322)

Data expressed as mean (standard deviation) for continuous variables and frequency (%) for categorical variables. AG, Anges Gardins; MLPM, Mission Locale Picardie Maritime; MEEF, Maison pour l'Entreprise, l'Emploi et la Formation Santerre Haute Somme; WM, Centre Social Audrey Bartier ; MCH, Medway Community Healthcare; BCP, Bournemouth, Christchurch & Poole Council; YL, East Kent hub; VIF, Vivons en Forme; CSE; Centre Social Eclaté

There was a consistent increase in the number of participants moving up a step on the ladder from baseline compared to 12 weeks (**Figure 9**). There was also an increase in the proportion of participants moving a step up the participation ladder in terms to their future aspirations (**Figure 10**). In comparison to 14% indicating their future step on the ladder as getting into paid employment at baseline, 30.4% indicated their future aspiration as getting into paid employment at the post-intervention timepoint.



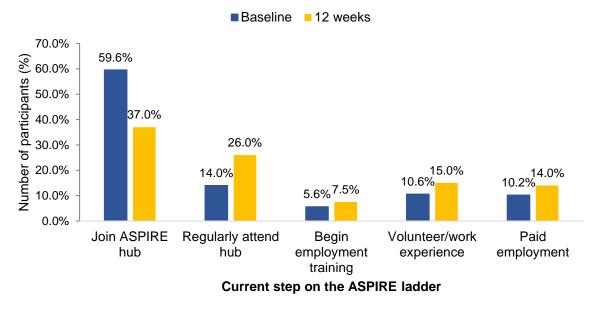


Figure 9: Participants' current step on the ASPIRE ladder at baseline and postintervention

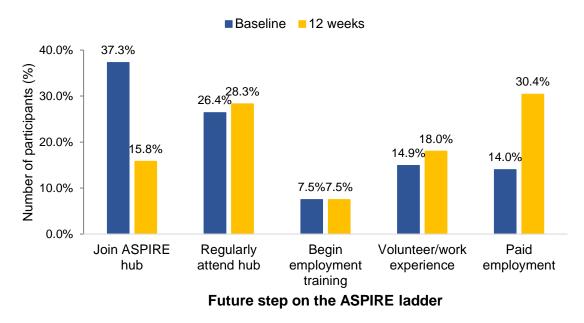


Figure 10: Participants' future aspirations on the ASPIRE ladder at baseline and postintervention



5.3 Self-efficacy

Table 7 illustrates data on self-efficacy. A total of 252 participants were included in this analysis . The mean age was 37.9 ± 17.9 , 65.5% female and 66.7% were participants from France. The mean self-efficacy score at baseline was 28.8 ± 6.5 , on a scale ranging from 10 to 40 for all participants, with a higher score indicating a higher self-efficacy. Analysis of post-intervention self-efficacy score indicated a small but significant increase in self-efficacy post-intervention (0.5, p=0.036) in all participants. Subgroup analysis indicated a consistently higher self-efficacy in participants living in France (baseline: 29.8 ± 6.1 ; post-intervention: 30.0 ± 6.0) compared to participants in the UK (baseline: 26.7 ± 6.7 ; post-intervention: 27.7 ± 7.1) both at baseline and post intervention. Statistically significant differences in self-efficacy scores were observed between countries at baseline (p<0.001) and at post-intervention (p = 0.003).

Variable	n (%), Mean (SD)
Sex	
Male	84(33.3)
Female	165(65.5)
Other	3(1.2)
Age	37.9(17.9)
Country	
France	168(66.7)
UK	84(33.3)
Project site	
AG	27(10.7)
MLPM	40(15.9)
MEEF	60(23.8)
WM	17(6.7)
MCH	46(18.3)
BCP	8(3.2)
YL	30(11.9)
VIF	14(5.6)
CSE	10(4.0)
Self-efficacy score	
Baseline	28.8(6.5)
Post-intervention	29.3(6.5)

 Table 7: Background characteristics of participants completing the self-efficacy scale (n 252)

Data expressed as mean (standard deviation) for continuous variables and frequency (%) for categorical variables. AG, Anges Gardins; MLPM, Mission Locale Picardie Maritime; MEEF, Maison pour l'Entreprise, l'Emploi et la Formation Santerre Haute Somme; WM, Centre Social Audrey Bartier ; MCH, Medway Community Healthcare; BCP, Bournemouth, Christchurch & Poole Council; YL, East Kent hub; VIF, Vivons en Forme; CSE; Centre Social Eclaté



5.4 Health-related quality of life

The health-related quality of life assessment using the EQ-5D-5L tool was completed by a total of 251 participants (**Table 8**). The majority of these were female (64%) and predominantly from France (65.3%). Self-reported health-rated quality of life on the visual analogue scale (EQ-VAS scale) comparing baseline to 12 weeks increased by 0.9 points however, this difference was not statistically significant. While the overall EQ-VAS score did not significantly differ, there were differences observed for the descriptive subscales for mobility, self-care, usual activities, pain/discomfort and anxiety/depression (**Figure 11**). At baseline 66.1% of participants reported no problems with mobility in comparison to 67.3% at 12 weeks. The number of participants who reported having no mobility at all decreased from 1.6% at baseline to 1.2% at 12 weeks. Similarly, there was an increase in participants reporting no problems with self-care at baseline (86.1%) compared to 12 weeks (87.6%), while the number of participants reporting slight, moderate and severe problems with self-care decreased. A similar trend was observed for usual activity, pain/discomfort and anxiety/depression.

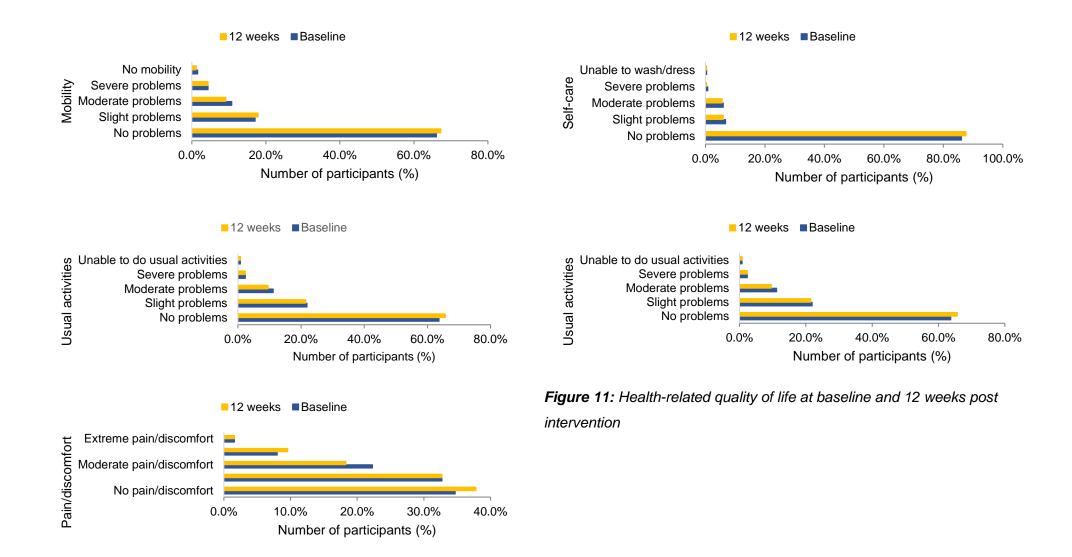
Variable	n (%), Mean (SD)	
Sex		
Male	84(33.5)	
Female	164(65.3)	
Other	3(1.2)	
Age	37.7(17.7)	
Country	· · · · ·	
France	164(65.3)	
UK	87(34.7)	
Project site		
AG	25(10.0)	
MLPM	41(16.3)	
MEEF	58(23.1)	
WM	14(5.6)	
MCH	52(20.7)	
YL	35(13.9)	
VIF	15(6.0)	
CSE	11(4.4)	
EQ-VAS score		
Baseline	64.8(21.0)	
12 weeks	65.7(20.8)	

 Table 8: Background characteristics of participants completing the EQ-5D-5L

 Questionnaire (n 251)

Data expressed as mean (standard deviation) for continuous variables and frequency (%) for categorical variables. AG, Anges Gardins; MLPM, Mission Locale Picardie Maritime; MEEF, Maison pour l'Entreprise, l'Emploi et la Formation Santerre Haute Somme; WM, Centre Social Audrey Bartier ; MCH, Medway Community Healthcare; BCP, Bournemouth, Christchurch & Poole Council; YL, East Kent hub; VIF, Vivons en Forme; CSE; Centre Social Eclaté





5.5 Diet Quality

The background characteristics of participants completing the food frequency questionnaire and diet quality assessed using the Diet Quality Index – International (DQI-I) are presented in **table 9** below. DQI-I score ranges from 0 to 100 with a higher score indicating a higher dietary quality. Data was obtained from a total of 257 participants, with the majority of participants being female (65%) and predominantly from France (66.1%). Overall participants diet quality would be categorised as average and there were no statistically changes in diet quality in response to ASPIRE activities when comparing baseline to the 12-week timepoint.

Variable	n (%), Mean (SD)	
Sex		
Male	90(35)	
Female	167(65.0)	
Age	40.7(18.Ó)	
Country		
France	170(66.1)	
UK	87(33.9)	
Project site	- ()	
AG	45(17.5)	
MLPM	9(3.5)	
MEEF	62(24.1)	
WM	16(6.2)	
MCH	52(20.2)	
YL	3(1.2)	
VIF	18(7.0)	
CSE	20(7.8)	
Diet quality	()	
Baseline	54.0(10.7)	
12 weeks	54.2(10.3)	

 Table 9: Background characteristics of participants completing the food frequency questionnaire (n 257)

Data expressed as mean (standard deviation) for continuous variables and frequency (%) for categorical variables. AG, Anges Gardins; MLPM, Mission Locale Picardie Maritime; MEEF, Maison pour l'Entreprise, l'Emploi et la Formation Santerre Haute Somme; WM, Centre Social Audrey Bartier ; MCH, Medway Community Healthcare; BCP, Bournemouth, Christchurch & Poole Council; YL, East Kent hub; VIF, Vivons en Forme; CSE; Centre Social Eclaté

5.6 General Health

Table 10 illustrates the characteristics of participants completing the health and wellbeing questionnaires. Similar to the other measures, the majority of participants were female (64.9%) and from France (68.1%). The majority of participants had compulsory schooling (40.1%) and



had no previous employment experience (34.8%) and reported living with partner & or family members (44.4%).

Variable	n (%), Mean (SD)
Sex	
Male	92(33.3)
Female	181(64.9)
Other	6(2.2)
Age	37.8 (17.8)
Country	
France	190(68.1)
UK	89(31.9)
Project site	
AG	29(10.4)
MLPM	47(16.8)
MEEF	59(21.1)
WM	15(5.4)
MCH	52918.6)
BCP	1(0.4)
YL	37(13.3)
VIF	14(5.0)
CSE	25(9.0)
Highest level of education	
None	25(9.0)
Compulsory schooling	112(40.1)
Vocational training/job skills training	70(25.1)
Post-secondary education & qualifications	72(25.8)
Duration of previous employment	
None	97(34.8)
< 1 year	47(16.8)
1-2 years	29(10.4)
3-4 years	16(5.7)
5 years or more	90(32.3)
Household	
Living alone	92(33.0)
Living with partner	55(19.7)
Living with a housemate (shared rented accommodation)	8(2.9)
Living with partner & or family members	124(44.4)

Table 10: Background characteristics of participants completing the health and wellbeing questionnaire (n 279)

Data expressed as mean (standard deviation) for continuous variables and frequency (%) for categorical variables. AG, Anges Gardins; MLPM, Mission Locale Picardie Maritime; MEEF, Maison pour l'Entreprise, l'Emploi et la Formation Santerre Haute Somme; WM, Centre Social Audrey Bartier; MCH, Medway Community Healthcare; BCP, Bournemouth, Christchurch & Poole Council; YL, East Kent hub; VIF, Vivons en Forme; CSE; Centre Social Eclaté



Self-rated health status in terms of overall general health and physical health in the past 30 days generally improved from baseline to 12 weeks (**Figure 12**). Similarly, there was an improvement in the impact of health on activity level. Compared to baseline where 48.4% of participants reported an effect of their health on their activity levels, fewer participants (47%) reported an effect of their health on their activity level at 12 weeks.

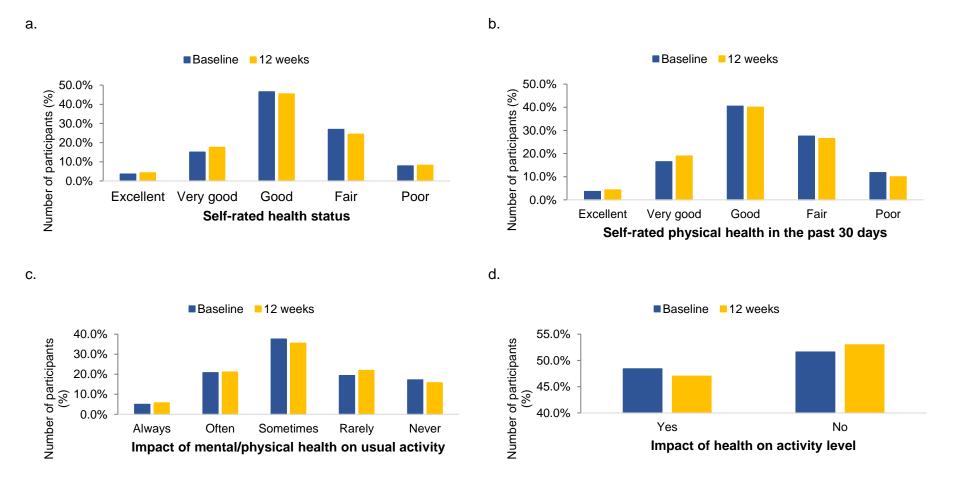


Figure 12: Participants self-rated health status at baseline and at 12 weeks

5.7 Participants experiences of taking part in the project – Photovoice study

Background characteristics of participants taking part in the Photovoice study are presented in **table 11**. All the nine ASPIRE hubs were represented with most providing two participants; 65% came from France, 35% from the UK and there was an even gender split with 55% female participants. There was a wide age range (19 to 73 years) with the mean age being 39 years, however the French participants represented a younger cohort (mean age 36 years), UK cohort (mean age 43 years). 40% of the participants lived alone and the rest lived with others (partners or family members). There was a range of educational backgrounds represented with 30% experiencing only compulsory schooling, 35% experiencing vocational or job skills training and 35% obtaining qualifications from post-secondary education. Previous employment was also varied but related to age with 45% having no or less than one year's experience, these participants had an average age of 25 years; 35% having more than five years' experience, these participants had an average age of 51 years and 20% having between one- and four-years' experience, these participants had an average age of 46 years.

	n (%), Mean (SD)
Variable	
Sex	
Male	9(45)
Female	11(55)
Age	38.5(16)
Country	
France	13(65)
UK	7(35)
Highest level of education	
Compulsory Schooling	6(30)
Vocational/ job skills training	7(35)
Post-secondary education and qualifications	7(35)
Previous employment	
None	4(20)
< 1 year	5(25)
1–2 years	1(5)
3 – 4 years	3(15)
>5 years	7(35)
Household	
Living alone	8(40)
Living with partner	2(10)
Living with partner and or family members	9(45)
Unknown	1(5)

Table 11: Demographic characteristics of participants participating in Photovoice (n	
20)	

Data expressed as mean (standard deviation) for continuous variables and frequency (%) for categorical variables.



Overview of Themes and Sub-themes

Figure 13 below shows the main themes and the most frequently coded sub-themes that were identified from the Photovoice analysis.

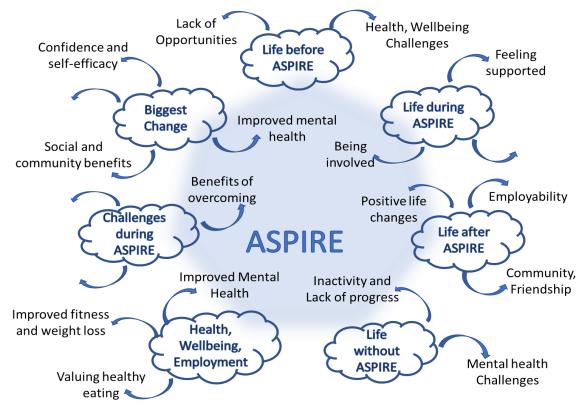


Figure 13: Main themes and sub-themes from the Photovoice analysis

The following sections examine the main themes and sub-themes with example photos and quotes from the transcripts, participant IDs have been anonymised.

5.7.1 My Life before ASPIRE

The dominating sub-theme for this part of the journey was 'Health and Wellbeing Challenges'. Participants often referred to their poor state of mental wellbeing before starting the ASPIRE programme; sadness, depression and anxiety were commonly experienced "*when I first came here, I was very depressed and very mentally unstable and very not sure about the future*" P3. Lack of confidence and poor self-image were also prevalent "*Because when I came to the ASPIRE workshop, my life was a mess. I had problems that I still have, problems in terms of self-confidence, self-esteem*" P8. The most frequent phrase participants used to express their feelings at this stage was having no hope or no progress, *"your life is zero, so you know you need to um, pick yourself up so that red light means, you know, your life has stopped…it's*"



come to a zero" P7. Some participants said they were experiencing loneliness "I was alone in my room." P12. There were several references to coping mechanisms, some of them negative "My weight, my self-image, the fact that I don't eat properly, and that I resort to foods that are more or less harmful to my health." P9, and some of them positive – "So we volunteer in soup kitchens, the rescue services, we become religious to raise our spirits and to find peace so as not to become depressed" P19. The other sub-theme was 'Challenges with access to opportunities'; participants expressed their experiences relating to lack of opportunities, income, or time, due to unemployment or lack of support before joining the ASPIRE programme, "I don't have a lot of income at the moment, I feel like a lot of opportunities are shut to me because of income, it does make me feel very um, isolated a lot um from social things, um from progressing on in life, um, its limited opportunities without money" P5. The photos and photo captions reflected the negative state of mind for most of the participants, examples can be found in **Figure 14**.



Sadness





Dead end life



Alone in my thoughts

Figure 14: Photos and captions from My Life before ASPIRE theme



5.7.2 My Life during ASPIRE

The three sub-themes 'Actively being involved in ASPIRE', 'Access to and feeling supported' and 'Ongoing Lifestyle changes' reflect the changes that participants experienced whilst being involved in ASPIRE activities. They enjoyed participating in activities such as gardening, cooking and creative activities "I can help stuff grow, and I can be a part of something that isn't just me in my little world, it's really nice ... That's a great comfort" P1, and found pleasure in being more active through sport and movement "I was constantly on the move, I was moving because there was sport, there was the nutrition part, there was sophrology, and so on. I mean there was hardly any down time" P17. Some commented on the positive aspects of learning new skills and getting involved in work "I learned things about health and well-being. It made me want to move on." P11. As well as the activities themselves, participants felt that involvement in the ASPIRE project supported their physical and mental health giving them feelings of hope and happiness "during the project, what Aspire brought me....to have this sensation of progressing ...with each workshop for example." P15, "since being at ASPIRE.... I felt nothing but support.....keeping you upright, not just physically supported but mentally supported" P4. Participants also reported that during ASPIRE they experienced ongoing lifestyle changes with improvements to their mental health, motivation "Motivating. It's the desire to rebuild myself." P14, and social life "I go to the centre every day, so of course I always see the other girlfriends I made with ASPIRE ... and it's great. Let's say we are a family." P16 The photos and photo captions for this theme reflected the participants' improvement in mental state through being involved in activities and feeling supported by the ASPIRE project, examples can be found in Figure 15.

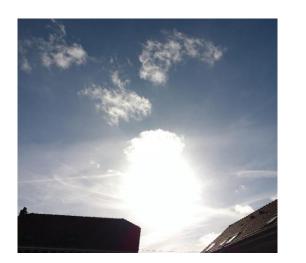






Active

Supported



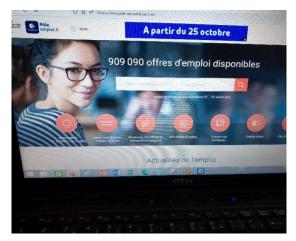


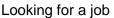
Sunshine of happiness Solidarity group *Figure 15:* Photos and captions from My Life during ASPIRE theme

5.7.3 My Life now after ASPIRE

The dominant sub-theme was 'Positive Life Changes'. In sharp contrast to 'Before ASPIRE', participants expressed feelings of happiness, hope "we have faith, we have hope, we have light... you see, green, it can represent many things, hope" P18, increased energy and confidence "I think I've changed completely in terms of my self-esteem, I have made progress", and motivation to move forward in life, "the activities we do at ASPIRE, sports-wise, gave me the motivation to move on and fight" P11. The sense of community and friendship was also frequently mentioned "I love it, I love being there for others now. I feel good, I take care of myself but also of others" P20 as well as the effect on employability "I took this photo because I took part in aspire, and I'm job hunting now" P12. The photos and captions for this theme reflected these positive experiences, examples can be found in **Figure 16**.

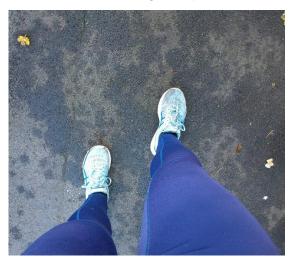








Green river of hope



Moving forward



Acceptance

Figure 16: Photos and captions from My Life now after ASPIRE theme

5.7.4 My Life without ASPIRE

This theme was dominated by negative emotions. Many participants had experienced mental health challenges in the past including depression, suicide, stress, worry, addiction and feelings of being lost with no purpose. They thought that, without ASPIRE, these conditions would have continued. *"I was on the path to suicide, that, and alcohol. I didn't feel well."*P20, *"I would go back to the darkness. I wouldn't have anything to look forward to in my life"* P3. Another major sub theme was 'Inactivity and lack of progress' often described as having no goals, standing still, an empty life or a path full of challenges *"that's pretty easy that one, empty, and that's a wear mark, through sitting in that chair for too long"* P6. There were also participants with unfulfilled aspirations due to lack of money or motivation *"I just felt, before I*



met the people at the ASPIRE, I was just standing still, had lots of aspirations to do things but I didn't have the money to do them or the get up and go". P5. Participants also reported that without ASPIRE they had experienced a lack of guidance and support with no access to professional help for stress management, nutrition advice, increasing knowledge and skills and preparation for employment "And if we didn't join ASPIRE, would we think of going to see a sophrologist or paying money to go see a nutritionist? Let's not forget that" P9. The photos and captions for this theme reflected these negative emotions, examples can be found in **Figure 17**.



Without landmarks



Darkness



Empty Suicide Figure 17: Photos and captions from My Life without ASPIRE theme



5.7.5 ASPIRE and my health, wellbeing, or employability

The dominant sub-themes reflected the intended outcomes of the intervention 'Valuing healthy produce, cooking and eating', 'Improved mental health' and 'Physical fitness and weight loss benefits'. Many participants valued the nutrition and cooking advice "*It's a better way of cooking and we keep the vitamins in the vegetables with the cooking workshops. Before we ate dead food... When we have good vegetables that revitalise the body, we learn to eat smarter"* P19, and found that it had positive effects on their mental health "*this tree symbolises a new phase of my life...sunflowers, sunlight, representing new birth, but overall, ASPIRE's just opened a new light in my life, it's relighted a lot of past dreams I've had as well"* P3. Some also managed to lose weight "*And there's the scales. nine pound I lost in six weeks"* P6. Employability was also mentioned "*because as a result, in terms of employability, I'm really preparing a lot for the future"* P15 as well as the benefits of being part of a community "*Renewal. Well-being. Eating well, being with people, being sociable, involved in activities. I loved it yesterday. There weren't many of us, but it was nice. It's being together"* P20. The photos and captions for this theme reflect the positive effects of the ASPIRE project, examples can be found in **Figure 18**.



Healthy Eating



Wellbeing





Strength

Renewal of being together

Figure 18: Photos and captions from ASPIRE and my Health, Wellbeing and Employability

5.7.6 Challenges during ASPIRE

The challenges participants experienced during ASPIRE largely fell into two sub-themes 'Physical health related challenges' "The challenge for me is to do an activity. Sports, physical activities. It was hard. I was not used to it." P20, or 'Emotional and Mental Challenges' including anxiety, agoraphobia, facing fears, eating disorders, or speaking in a group "This is my biggest challenge ...which is leaving safety of the nest, leaving I know what's protecting me...I think it's agoraphobia" P1. Also relevant to some participants were challenges related to life balance, travelling to the Hub and the sociocultural environment at home. However, many participants expressed positive comments about the benefits of overcoming the challenges to physical and mental health, "And when we exercised, we would feel better. It is the beginning that is difficult, we oxygenated our blood." P19. The photos and captions for this theme were quite varied depending on individuals' challenges, examples can be found in **Figure 19**.





Sports trail





Life challenges



My doorPossible route despite difficultiesFigure 19: Photos and captions from challenges during ASPIRE

5.7.7 The biggest change in my life from ASPIRE

The most common way that participants expressed the biggest change in their lives was and an increase in confidence and self-efficacy, talking about change of image, rediscovery, overcoming obstacles and being motivated to succeed despite the challenges, *"I think it's really the fact of daring, of saying to myself, well, after all, if I don't dare, it's certain that I won't succeed, that's clear, and also saying that there's something else than this daily routine"* P15. Also strongly featuring in this theme was improved mental health, expressed as a positive frame of mind, appreciation of surroundings, happiness, peace and serenity *"it shows the biggest change ASPIRE has had on life, meaning the walks and the activities again from negativity to positivity"* P7. Many participants also thought that the biggest change was derived from the 'Positive social aspects of the ASPIRE' being accepted by the community, no racism, no judgement, support from others and feeling safe, *"ASPIRE is a place of safety for me from my normal life …it's a place of safety, security, where I can come for a couple hours every*

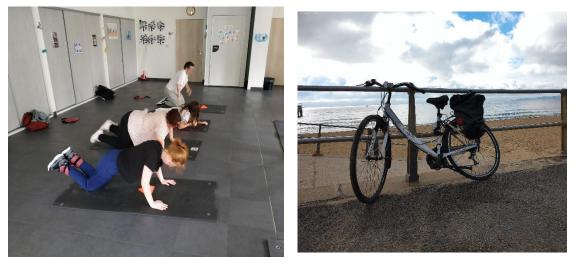


day, or every week, where I feel safe"P3. Also mentioned were 'establishing healthier routines' and 'employability', *"you can walk right along the coastal walk there, but there's a circular walk, 2.6 miles and I do that quite a few days if I can*" P6. The photos and captions for this theme reflected the positive changes on participants lives, examples can be found in **Figure 20**.



My rebirth





Sociability Freedom and happiness *Figure 20:* Photos and captions from Biggest change in my life from ASPIRE



5.8 Demonstrating what works, how, why and for whom

Consistent with realist evaluation principles, further analysis were carried out to elucidate which strategies implemented within the ASPIRE model were successful or unsuccessful and for which participants. **Tables 12 and 13** below provide a summary of successful intervention activities, strategies that were effective for recruitment, engagement and why these were successful or unsuccessful.

Table 12: Summary of intervention activities, recruitment and engagement strategies that worked well in ASPIRE

	WHAT WORKS	FOR WHOM	НОМ	WHY	CHALLENGES
INTERVENTION ACTIVITIES	Cooking workshops Food growing workshops Nutrition classes	All participants in all hubs	 Free vegetable basket as a reward. Tasting and sharing foods/recipes after a cooking class. Using food from the garden and learning new recipes. Volunteering opportunities New skills and knowledge around food and fresh produce Small classes and group-specific programmes Adaptation of activities to the needs of participants Frequency of workshops Good atmosphere /environment Proactive staff 	 Higher social engagement, involvement and adherence of participants. Varied activity schedule: always exploring members' interest in new activities/topics. Frequent workshops fostered regular engagement with activities Resources to support activities (recipe book etc). Access to the digital support platform. 	 Finding service providers (for cooking Require a physical structure & equipment Need for clear food distribution policy Aligning the physical space to the number of activities. Encourage participants to attend other activities that they did not enrol in. Aligning proposed activities with participants' interests and availability (timetable).
RECRUITMENT	Word of mouth	All participants in all hubs	 Testimony Showing own results. Sharing positive thoughts on the project. 	People notice a real change from the person who recommended the	

		 Website with commissioned videos. Video testimony of participants. 	programme, so they are more diligent.	
Availability of hub coordinators to facilitate recruitment	All participants in all hubs	 Formal meetings to outline aims of project to interested participants. Individual conversations between hub coordinators and potential participants Stalls at local community events Showing facilities, and materials, with samples of activities, cooking demonstrations, opportunities to speak to staff and participants etc. 	 Easy access & availability of information on the project. Pop-up events showed positive recruitment results through demonstration activities in public spaces. 	 Events that are not open to the public while useful for networking with other agencies, require a lot of organisational effort. Meeting with stakeholders may be more cost-effective for building the network.
Referral system (NHS primary care networks (PCNs), GP surgeries, Social Prescribing Services, job and leisure centres).	All participants in all hubs	Target the same audience	 GP referrals prove to be well founded in remaining with/in receiving regular participants in any choice of activity. 	 Health professionals were overwhelmed by the pandemic and other internal issues (lack of time). Social prescribing services: frequent staff turnover, complex provision.
Social media (Facebook, Instagram).	Young people New community members	 Facebook events and digital posters advertised on ASPIRE's pages or partners' social media platforms. Texts and newsletter 	 Wide reach of audience Keeping participants informed about the programme as it evolved. 	 Exclusion of population not connected to social media. Overload of information/competing interests on social media
Participant engagement was mainly attributed	All participants in all hubs	 Identification with the project's values. 	 Participants' perception of their 	

be	o the enevolence of ne programme.		 The quality and diversity of activities offered Free access to activities & resources Individualised follow-up/coaching. Support materials, gifts, and a diploma of course completion Frequent feedback on progress Participatory, cooperative, and collaborative methods in individual and group settings 	 results and/or peers' progress. Showing the achievements of the various groups as/when it was possible to do so. Participants felt confident & empowered
re	nterpersonal elationship (hub oordinators & articipants)	Younger participants	 Policy of including participants in programme phases Making the participants responsible for elements of activities Continuous participation encouragement with regular contact (by telephone or in person). Opportunities for the wider community to be involved, such as Street Theatre & dance. Follow-up participants who did not attend by keeping in touch by phone call and text 	 Participants feel confident & listened to Feeling valued Sense of belonging Fostering relationships between participants & hub coordinators.

	Progression to volunteering on the project	Younger participants	 Participants volunteering in project activities including cooking sessions, working in ASPIRE gardens or providing catering for ASPIRE events Promotion of the programme at local events by young people involved in the project 	 Increase in participants' self- confidence & self- esteem
PARTICIPANT	Support with transport (public transport & taxi)	 Participants residing in rural areas or areas with little connection to bus services. Individuals facing particular mental health conditions (anxiety, phobias) 	 A local association of transport was used to provide transport Reimbursement of transport costs: public transport (face value of the ticket) or driving to the hub (on a mileage basis). 	 Promoted accessibility of project activities Increased attendance
	Social credit or participant reward system.	• Anges Gardins Hub	Programme of reward: MANNE. Participants earned points from attending activities & this could be used in exchange for produce or services including hairdresser	 Encouraging commitment through the MANNE exchange system.
	ASPIRE uniform (T-shirts and kitchen aprons)	All participants in all hubs	ŭ	 Promoted sense of belonging & identity for participants

	WHAT DID NOT WORK	FOR WHOM	HOW	WHY	CHALLENGES
Intervention Activities	Activities related to physical activity (wellbeing walks, cycling, guided walks, boxercise, fitness courses).	All ASPIRE Hubs	Difficulties in carrying out sports-related activities.	 Outdoor activities (for example cycling) depend on the weather. Equipment: bicycle weight limit. Requiring strong involvement of the hub team members to carry out activities with the participants. 	 Considering winter alternatives. Resilient and dedicated staff.
Recruitment	Flyers, posters, articles promotion on the local media & publicity campaigns.	All ASPIRE Hubs	 Leaflet drops in local shops Posters in public spaces Local radio coverage 	 Raised awareness across the community but did not appear to raise a significant cohort of participants to the programme. Posters and roller banners in shopping centres were not effective due to no human intervention and a non- specific audience. 	
Engagement with Participants	Weekly workshop registration system	The majority of ASPIRE hubs	 Instead of a weekly posting of scheduled activities, run the programme on a cohort basis 		
	Staff recruitment	The majority of ASPIRE hubs	High staff turnover	 No stable team dedicated to the project throughout the programme. 	
PARTICIPANT INCENTIVES	Using food from the garden	BCP hub	 Not establishing an initial policy for the use of the growing area and harvesting food from the garden. 	 Not having a clear food distribution policy created issues such as "not having enough to go around, 	

Table 5: Summary of intervention activities, recruitment and engagement strategies that did not work well in ASPIRE

deciding who gets what is available".

6 KEY OUTPUTS AND DISSEMINATION

Key outputs and dissemination of findings from the evaluation include conference presentations, two published peer reviewed journal articles, 5 published abstracts, photobooks and canvases of participants photos from the Photovoice study.

Full text publications

- Amenyah S.D., Waters D., Tang W., Fenge L. & Murphy J.L. (2022). Systematic realist synthesis of health-related and lifestyle interventions designed to decrease overweight, obesity and unemployment in adults. *BMC Public Health* 22(2100):1-24.
- Amenyah S.D., Murphy J.L. & Fenge, A. (2021). Evaluation of a health-related intervention to reduce overweight, obesity and increase employment in France and the United Kingdom: a mixed-methods realist evaluation protocol. *BMC Public Health.* 21 (582), 1–11.

Published abstracts

- Amenyah S.D., Fenge L-A., Stallard J., Lerwill P., McGannan B., Oliveira N., Tang W., Murphy, J.L (2023). Body composition and motivations for accessing an innovative, digital community health engagement tool in socially deprived areas. *Proceedings of the Nutrition Society (2023), 82 (OCE3), E207.*
- Oliveira N., Amenyah S.D., Tang W., Fenge L-A., Murphy, J.L (2023). Self-efficacy of participants in a holistic intervention to reduce unemployment and obesity in France and England. *Proceedings of the Nutrition Society*, 82 (OCE3), E220.
- 3. Amenyah S.D., Larsen C., Tang W., Fenge L-A., Murphy, J.L (2023). Diet quality of participants in a holistic health-related intervention to reduce obesity and overweight in adults. *Curr Dev Nutr (in press)*.
- Amenyah S.D., Fenge L-A., Stallard J., Lerwill P., McGannan B., Oliveira N., Tang W., Murphy, J.L (2023). An innovative and person-centred approach to assessing body composition, health and wellbeing in socially deprived communities. *Curr Dev Nutr (In press)*.
- 5. Amenyah S.D., Light, K. Yinusa G., Tang W., Fenge L-A. & Murphy J.L (2023). An innovative and participatory approach to evaluating the effectiveness of a health-related intervention to reduce obesity and unemployment in adults. *Curr Dev Nutr (In press)*.



 Amenyah S.D., Waters D., Tang W., Fenge L-A. & Murphy J.L (2022). A realist systematic review to understand the effectiveness of health-related interventions designed to decrease overweight, obesity and unemployment in adults. *Current Developments in Nutrition* 6(1): 1045.

Conference presentations

March 2023 Nutrition Society Scottish Section Conference, Glasgow, United Kingdom

- Body composition and motivations for accessing an innovative, digital community health engagement tool in socially deprived areas.
- Self-efficacy of participants in a holistic intervention to reduce unemployment and obesity in France and England
- December 2022 International Union of Nutrition Scientist (IUNS) Congress, Tokyo, Japan
 - Intervention strategies and effectiveness of health-related interventions to reduce obesity and unemployment in adults.

June 2022American Society for Nutrition Flagship Conference, Nutrition2022, Online

 A realist systematic review to understand the effectiveness of health-related interventions designed to decrease overweight, obesity and unemployment in adults

Links to Photobooks





Softcover version: <u>https://photobook.onelink.me/QDvH/ephotobook?file=V5xWR</u> Hardcover version: <u>https://photobook.onelink.me/QDvH/ephotobook?file=pqKvL</u>



7 DISCUSSION, LIMITATIONS AND CONCLUSION

7.1 Discussion and limitations

The overall aim of the ASPIRE evaluation was to assess the impact of ASPIRE activities on measures around health and wellbeing, diet quality and employability. The evaluation also obtained in-depth data on the experiences of participants in order to elucidate why the interventions worked, the effectiveness of the activities as well as provide further direction for future models. The strongest findings were around the use of the health kiosk and the participants' experience of the project.

Data from the health kiosk indicated that majority of individuals living around the ASPIRE hubs were in the pre-obesity category and highlights the need for interventions similar to ASPIRE at a community level. Motivations for the use of the health kiosk differed according to age, sex, employment status as well as body composition, with individuals who were health conscious having a lower BMI and BFC, although still in the overweight category. In relation to health and wellbeing metrics, the key measures with significant influences on BMI and BFC were sleep, exercise, diet and alcohol. Recent evidence has highlighted inequalities with health accessibility, with individuals from socially deprived communities having limited access to GPs or preventive services and the health kiosk therefore presents an engaging community-based approach to support those living in socially deprived areas.

Participants experiences of the project documented through photography, provided key insights into the success of the activities and highlighted which intervention strategies were effective and why. Prior to enrolling in ASPIRE participants experienced significant challenges with unemployment, healthy weight status with underlying causes linked to mental wellbeing, anxiety, depression and hopelessness. Consistent with previous research, both unemployment and obesity are associated with stigmatisation, negative stereotyping, negative psychosocial feels such as stress, anxiety, depression and low self-esteem (45,46). Participation in ASPIRE resulted in positive outcomes including improved mental wellbeing, self-efficacy, value of healthy produce, cooking and eating and an overall sense of hopefulness. This highlights the importance of a holistic approach to addressing the common underlying causes of obesity and unemployment consideration is given to physical, emotional, social, occupational, intellectual, spiritual, and ecological aspects of health.

The main aims of ASPIRE were to implement activities around health and wellbeing and employability to reduce obesity and unemployment, however analysis focused on these



measures showed a limited effect of the activities on these outcomes. While there were increases in the proportion of participants who moved up a step of the ASPIRE participation ladder, a small number were able to obtain employment highlighting the need for further skills training and support to get into employment. A significant proportion of participants included in the evaluation however indicated getting into paid employment as a future aspiration and therefore potential to get into employment if engaged in activities in the longer term. In terms of self-efficacy, health and wellbeing and health-related quality of life and diet quality, marginal changes were observed in response to participating in activities. Consistent with previous research and in the realist review carried out, effectiveness of interventions are influenced by the timing, duration of intervention activities, intensity of activities and level of engagement. The activities implemented in ASPIRE were less intensive, less frequent and therefore limited the magnitude of any changes in response to the intervention.

A key strength of the ASPIRE project was co-creation with participants and the multifactorial approaches used to holistically address obesity and unemployment. However, there were several factors which impacted the project and thus the conduct of the evaluation and the findings from the project. The project began just at the start of the COVID-19 pandemic, and this negatively affected data collection, collaboration and effective conduct of project activities. Additionally, there were significant challenges with setting up the projects at different hubs, recruiting participants into both activities and the evaluation and follow-up of participants through the project.

7.2 Conclusions

The overall aim of the ASPIRE project was to provide individuals who were unemployed or living with obesity or overweight the skills they need to make healthier lifestyle choices and to improve their employability. The project was able to provide evidence showing the feasibility of implementing a holistic model to reduce unemployment and obesity. The findings highlight the importance of co-creation, coordination and innovative strategies that are effective in engaging individuals from socially deprived communities around their health, wellbeing and employability. However, there were several limitations to implementation and delivery due to the COVID-19 pandemic which affected relationship building, implementation activities, participant recruitment thereby limiting the success of the model.

ASPIRE

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9 APPENDICES

Proceedings of the Nutrition Society (2023), 82 (OCE3), E207

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Scottish Section Conference 2023, 28-29 March 2023, Diet and health inequalities

Body composition and motivations for accessing an innovative, digital community health engagement tool in socially deprived areas

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Obesity remains a critical public health challenge which adversely impacts health expectancy, quality of life, mortality and morbidity. The effects are even more pronounced in individuals living in socially deprived circumstances⁽¹⁾. Engaging individuals within the community using novel and person-centred approaches remains a critical pathway to prevention and improving the health of individuals living with overweight and obesity. Limited research has explored the motivations of individuals living with obesity to engage with community health and engagement services as an alternative to general practice services. The aim of this study is to assess the associations between body composition and the use of a novel community health engagement tool in socially deprived communities.

Calobis between body composition and the use of a hover community near negagement tool in socially deprive communities. Data for this study was collected as part of the larger Adding to Social capital and individual Potential In disadvantaged Regions (ASPIRE) study⁽²⁾ using the Interactive Health Kiosk⁽³⁾. The Health Kiosk is an interactive health and wellbeing engagement tool based on validated measures which allows users to do a health MOT, by measuring body composition and other health and wellbeing metrics. Data on demography, body composition and motivation for using the Health Kiosk, were extracted for this analysis. A total of 2473 participants, 59,7% female, mean age of 48 ± 18,6 years were included in this analysis. Average BMI was 28,0 ± $(0.0500^{-1})^{-1}$ with the meight of metricipants in the ange participants in the area the social to the ange the department of the social to the

A total of 2473 participants, 59.7% female, mean age of 48 ± 18.6 years were included in this analysis. Average BMI was $28.0 \pm 6.0 \text{kg/m2}$, with the majority of participants in the pre-obesity category (34.8%). Motivations for using the Health Kloak included the following: Worried about health (18.8%). Not able to see doctor (5.2%), Encouraged by family/friend (6.8%), Encouraged by staff at hub (23.9%), Health conscious (13.0%), More convenient than visiting doctor (3.9%) and Other (28.9%). Participants' motivations for using health kloak differed according to age, sex and employment status (p < 0.001). Post-hoc analysis indicated that individuals who were worried about their health (53.3 ± 17.6 years) or with limited access to a

Post-hoc analysis indicated that individuals who were worried about their health (53,3 ± 17.6 years) or with limited access to a doctor (53.9 ± 17.4 years) were older compared to individuals encouraged by family/friends (46.1 ± 17.9) or hub staff (37.8 ± 16.4) or health conscious. Participants motivations for using health kiosk indicated significant differences in BMI (p < 0.001) and BFC (p < 0.001). BMI for health-conscious individuals (26.4 ± 5.2 kgm-2) while still in the overweight category, was significantly lower compared to individuals who were worried about their health (28.9 ± 6.1 kgm-2), encouraged by family/friends (28.8 ± 6.6 kgm-2) or encouraged by hub staff (28.2 ± 7.3 kgm-2), Similarly, health- conscious individuals (30.9 ± 8.6%) had significantly lower BFC compared to those worried about their health (35.2 ± 10.2%), had limited access to a doctor (34.9 ± 10.2%), encouraged by family/friends (34.4 ± 11.2%) or indicated that health kis2 was more convenient than visiting the doctor (35.0 ± 8.1%).

This study provides critical and novel evidence on motivations for accessing a health engagement tool within socially deprived communities. It highlights the need and use of community-centred health engagement approaches to reduce and prevent obesity and presents potential options for commissioning health improvement and preventive services.

Acknowledgments

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Self-efficacy of participants in a holistic intervention to reduce unemployment and obesity in France and England

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Individuals living with obesity face barriers to reintegrate into the labour market. They often experience psychological distress, low self-motivation, and reduced self-efficacy⁽¹⁾. The maintenance of such negative social-psychological and behavioural factors may exacerbate maladaptive eating behaviours, unhealthy lifestyles, and create a cyclical mechanism of socioeconomic deprivation and high body mass index⁽²⁾. Self-efficacy, in particular, has been identified in research as a key and common underlying cause of obesity and unemployment as it influences lifestyle behaviour but also re-employment. Although there are interventions exploring the effects of self-efficacy improvement and weight management, limited intervention studies incorporate activities to address self-efficacy as a key determinant of unemployment and obesity. This highlights the need for interventions using a holistic approach to address common modifiable determinants of obesity and unemployment including self-efficacy. The aim of this study was to assess perceived selfefficacy in a sample of individuals living with obesity and/or unemployed.

Data were collected at baseline as part of The Adding to Social capital and individual Potential In disadvantaged Regions (ASPIRE) project which is a novel and innovative, programme developed to improve weight, wellbeing, self-efficacy, and employment in individuals who were living with obesity or unemployed in England and France⁽³⁾. In addition to demographic variables, data on self-efficacy was collected using a validated self-administered digital version of the General Self-Efficacy Scale (GSE). Differences between groups were analysed using independent t-tests and relationships between variables were explored using correlations (SPSS Version 26).

A total of 223 participants were included in this analysis. The mean age was 37.5 years (SD 17.8), 67.3% (n = 150) were female and 66.4% (n = 148) were participants from France. The mean self- efficacy was 28.6 (SD 6.5), on a scale ranging from 10 to 40 for all participants, with a higher score indicating a higher self-efficacy. Subgroup analysis indicated a statistically significant difference (p = 0.001) in self-efficacy scores between countries. Participants living in France (29.5 ± 6.3) had a higher self-efficacy score compared to participants in the UK (26.8 ± 6.5). There were no statistically significant differences observed for self-efficacy scores between male and female participants (p = 0.835). Additionally, no significant correlations were observed between age and self-efficacy (r = 0.097; p=0.150).

The findings suggest country-specific differences in self-efficacy and highlight the need for interventions that are tailored to countryspecific contexts. Additionally, obesity and unemployment are conditions influenced by a complex interplay of different factors including self-efficacy. Further research is needed to better characterise self-efficacy to inform the development of novel and holistic interventions to address obesity and unemployment.

Acknowledgments

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10/03/2023, 09:50 A Realist Systematic Review to Understand the Effectiveness of Health-Related Interventions Designed to Decrease Overw...





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A Realist Systematic Review to Understand the Effectiveness of Health-Related Interventions Designed to Decrease Overweight, Obesity and Unemployment in Adults

Sophia Amenvah, Diane Waters, Wen Tano, Lee-Ann Fenge, and Jane Murphy

Abstract

Objectives

Obesity, overweight and unemployment are intertwined, with common underlying causes however limited studies have examined this association. Holistic approaches are therefore required to understand this inter-relationship. The aim of this realist synthesis was to identify the common strategies used by health-related interventions to reduce weight and unemployment and to understand the contexts and mechanisms that determine effectiveness.

Methods

Electronic literature searches were conducted in Cochrane library, Medline, SocIndex, Cumulative Index to Nursing and Allied Health Literature (CINAHL), Scopus, an Data from included articles were extracted and coded for Context-Outcome-Me urations (CMOcs). A realist approach to thematic analysis was used to synthesis and refine the final program theory building on the initial program theory. Results are presented using a narrative synthesis.

Results

A total of 83 studies meeting the inclusion criteria and assessment for rigor and relevance were included. 17 CMOcs were identified that demonstrated interactions between intervention strategy, context of intervention, responses generated by the intervention (mechanism) and outcomes. Findings indicate implementation of multicomponent interventions tailored to the needs of the target group are more likely to result in positive outcomes. Additionally, consideration of both individual and external contextual factors would enhance the design, delivery and effectiveness of health-related interventions designed to reduce obesity and improve reemployment.

Conclusions

https://www.ncbl.nim.nih.gov/pmc/articles/PMC9194118/







RESEARCH

BMC Public Health



Systematic realist synthesis of health-related and lifestyle interventions designed to decrease overweight, obesity and unemployment in adults

Sophia D. Amenyah^{1*}, Diane Waters², Wen Tang², Lee-Ann Fenge¹ and Jane L. Murphy¹

Abstract

Background: Obesity and unemployment are complex social and health issues with underlying causes that are interconnected. While a clear link has been established, there is lack of evidence on the underlying causal pathways and how health-related interventions could reduce obesity and unemployment using a holistic approach.

Objectives: The aim of this realist synthesis was to identify the common strategies used by health-related interventions to reduce obesity, overweight and unemployment and to determine for whom and under what circumstances these interventions were successful or unsuccessful and why.

Methods: A realist synthesis approach was used. Systematic literature searches were conducted in Cochrane library, Medline, SocIndex, Cumulative Index to Nursing and Allied Health Literature (CINAHL), Scopus, and PsychInfo. The evidence from included studies were synthesised into Context-Mechanism-Outcome configurations (CMOcs) to better understand when and how programmes work, for which participants and to refine the final programme theory.

Results: A total of 83 articles met the inclusion criteria. 8 CMOcs elucidating the contexts of the health-related interventions, underlying mechanisms and outcomes were identified. Interventions that were tailored to the target population using multiple strategies, addressing different aspects of individual and external environments led to positive outcomes for reemployment and reduction of obesity.

Conclusion: This realist synthesis presents a broad array of contexts, mechanisms underlying the success of healthrelated interventions to reduce obesity and unemployment. It provides novel insights and key factors that influence the success of such interventions and highlights a need for participatory and holistic approaches to maximise the effectiveness of programmes designed to reduce obesity and unemployment.

Trial registration: PROSPERO 2020 CRD42020219897.

Keywords: Realist synthesis, Obesity, Unemployment, Overweight, Health-related interventions

Background Obesity and unemployment are critically intertwined

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social and health issues which adversely impact life expectancy, quality of life, mental health and lead to increased mortality and morbidity [1-4]. Whether obesity leads to unemployment or is a consequence of unemployment is not fully determined, however there is strong

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STUDY PROTOCOL

BMC Public Health



Evaluation of a health-related intervention to reduce overweight, obesity and increase employment in France and the United Kingdom: a mixed-methods realist evaluation protocol

Sophia D. Amenyah D Jane Murphy and Lee-Ann Fenge

Abstract

Background: Obesity, overweight and unemployment are interlinked, with debilitating effects on mortality, health, wellbeing and quality of life. Existing interventions to reduce overweight, obesity and unemployment have addressed these challenges independent of each other with limited success. The Adding to Social capital and individual Potential In disadvantaged REgions (ASPIRE) project will develop an innovative model using a combination of skills training and health and wellbeing interventions to improve health, wellbeing, quality of life and reduce overweight, obesity and unemployment in England and France. The aim of this paper is to outline the protocol for evaluating the ASPIRE project to examine the effectiveness of the intervention and clarify the mechanisms and contextual factors which interact to achieve outcomes

Methods: A mixed-method realist evaluation using a single-group before-and-after design will be used. The evaluation will consist of development of an initial programme theory, theory validation and refinement using quantitative and qualitative data to understand the causal mechanisms, contexts of implementation and their interactions that result in outcomes observed in ASPIRE. Primary outcomes that will be assessed are change in body weight and body mass index, reemployment and a rise on the ASPIRE participation ladder. The ASPIRE participation ladders consists of a series of 5 steps to engage participants in the project. The first step on the ladder is joining an ASPIRE hub with paid employment as the final step on the ladder. Secondary outcomes will be physical activity, diet quality, self-efficacy and health-related quality of life. Both quantitative and qualitative approaches are appropriate in this study because the use of validated questionnaires and objective measures will demonstrate how much the intervention addressed outcomes related to weight loss and reemployment and the qualitative data (photovoice) will provide insights into the contexts and experiences that are unique to participants in the project.

(Continued on next page)

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ASPIRE















































IRAS ID: 288333 Consent form_Evaluation Version 3 15.09.2021



Participant Consent Form - ASPIRE Evaluation

Full title: Adding to Social capital and individual Potential In disadvantaged REgions (ASPIRE)

IRAS ID: 288333

Section A: To be completed by ASPIRE Coordinator prior to enrolment into ASPIRE evaluation.

Participant identification number: Name, position and contact details of ASPIRE coordinator:

.....

To be completed by participant prior to data collection activity.

Section B: Agreement to participate in the research

You should only agree to participate in this research if you agree with all of the statements in this table and accept that taking part will involve the listed activities.

		Initial
		box to
		agree
1.	I have read and understood the Participant Information Sheet (PIS ASPIRE Evaluation	
	Version 1; 24.05.2021) for the above research and have been given access to the BU	
	Research Participant Privacy Notice which explains how my personal information is	
	collected and used (https://www1.bournemouth.ac.uk/about/governance/access-	
	information/data-protection-privacy).	
2.	I have had an opportunity to ask questions and I am happy with the answers.	
3.	I understand that taking part in this research is voluntary. I can stop taking part at any	
	time without giving a reason, without my medical care or legal rights being affected. I	
	can refuse to answer any particular question or questions.	
4.	I understand that taking part in this aspect of the research will include the following	
	activities:	
	• Completing a set of questionnaires based on my goals at the beginning when I join	
	ASPIRE, at 12 weeks and 6 months.	



	- Taking measurements of my height weight nereent hady fat and stan equate at
	Taking measurements of my height, weight, percent body fat and step counts at
	the beginning when I join the ASPIRE, at 12 weeks and 6 months.
5.	I understand that, if I withdraw from the study, I will also be able to withdraw my
	information from further use in the study except where my information has been
	anonymised (as I cannot be identified).
6.	I understand that my information may be included in an anonymised form within a
	dataset to be archived at BU's Online Research Data Repository.
7.	I understand that my information may be used in an anonymised form by the research
	team to support other research in the future, including future publications, reports or
	presentations.
8.	I understand that should I disclose something of concern during the research, my
	ASPIRE coordinator may need to break confidentiality as part of their duty of care and
	support me to contact an agency that could help.

Section C: I confirm my agreement to take part in the research as indicated above.

Name of participant (BLOCK CAPITALS)	Date (dd/mm/yyyy)	Signature	
Name of person taking consent (BLOCK CAPITALS)	Date (dd/mm/yyyy)	Signature	

Section D: Record Keeping

Once a Participant has signed, please sign 1 copy and take 2 photocopies:

- Original kept in the local investigator's file
- 1 copy to be kept by the participant (including a copy of participant information sheet)







Participant Information Sheet – ASPIRE Evaluation

1. The title of the project

Adding to Social capital and individual Potential In disadvantaged REgions (ASPIRE)

2. Invitation to take part

We are inviting you to take part in the evaluation research as part of the ASPIRE project. Before you decide, it is important for you to understand why the research is being done and what it will involve. Please take time to read the following information carefully and discuss it with others if you wish. Ask us if there is anything that is not clear or if you would like more information. Please take time to decide whether or not you wish to take part.

Thank you for your time.

3. What is the purpose of the research? Background

Living with obesity and overweight puts people at risk of serious illnesses such as heart disease, stroke, diabetes, lung disease, cancers and early death. More people are suffering from obesity in the UK, leading to growing concerns over its long-term impact on health.

National Targets

We are all being encouraged to practise healthy lifestyles to prevent, manage and reverse obesity. In England, rates of obesity have been found to be highest where the number of people unemployed and on low incomes are also high. Fresh, local, healthy food are often expensive, and seem more difficult to cook. People spend less time cooking, they are less active but busier, buying more convenience and fast food. We know the importance of the great outdoors, social interaction and maintaining a healthy lifestyle with a proper diet, physical activity but it is hard to eat healthy especially if we are busy, tired or stressed. We also know that a person struggling with their weight or wellbeing can have difficulties finding work due to a lack of self-confidence and feeling the pressures of stigma. Whilst a person who is out of regular work or activity may also struggle to maintain a healthy weight.

The goal of ASPIRE



The overall goal of the ASPIRE project is to give participants the support, skills and confidence needed to make healthier lifestyle choices for both them and their families. The ASPIRE project can help you grow fresh produce, learn new skills, improve your diet and wellbeing. By practicing a healthy lifestyle and learning new skills, individuals will be able to improve wellbeing and if relevant chances of:

- Reducing their weight
- Increased activity levels
- Volunteering
- Getting into work

The results from ASPIRE could help to improve the services that individuals living with obesity or overweight and/or who are unemployed receive.

4. Why have I been invited?

You have been invited to take part in this research, which is an aspect of ASPIRE because you are currently taking part in activities at an ASPIRE hub. Other adults who live within communities in Medway, Boscombe and Kent who are taking part in ASPIRE activities will also be invited to participate.

5. Do I have to take part?

Taking part is completely your choice, and it is up to you to decide whether or not to take part. If you initially decide to take part, you can change your mind at any stage. If you do decide to take part, you will be given this information sheet to keep and be asked to sign a consent form. We want you to understand what participation in the research involves before you decide whether to participate.

6. Can I change my mind about taking part?

Yes, you can stop taking part in this part of the research at any time and without giving a reason. This will not affect your ability to take part in any of the ASPIRE activities or any services that you receive as part of your care.

7. If I change my mind, what happens to my information?

After you decide to no longer take part in this research, we will not collect any more information from or about you, but we will keep information about you that we already have, if it is important to the research. It will not be possible for us to remove your information because you will not be identifiable.



8. What would taking part involve?

You will be given this information sheet to read, and your name and contact details will be taken. After a few days your local ASPIRE coordinator will contact you by phone and will ask if you are still interested in taking part. If you say that you are no longer interested, then we will thank you for your time and will not contact you again. If you say that you would like to continue with the research, then your ASPIRE coordinator will arrange a time for you to visit the ASPIRE hub at a time that suits you. At this meeting you will talk through what you need to do and answer any questions you may have. If you would still like to take part, you will be asked to sign a consent form.

The next steps will include the following:

- During the week after you have signed the consent form, you will be asked to visit your local ASPIRE hub to complete some questionnaires and take some body measurements. This will provide some baseline information about you.
- The questionnaires will record some basic information about you: Age/Gender
- They will also ask questions about the food that you eat, how you have been keeping active, your employment, your health and your self-efficacy.
- The questionnaires you complete will be based on goals you will set for yourself with the help of your coordinator as part of your taking part in ASPIRE.
- You will also visit the Wellbeing People Health Kiosk to measure your weight, height and percent body fat.
- You may also be given a pedometer help you count your steps.
- You will be asked to visit your ASPIRE hub again at 12 weeks and 6 months to complete the questionnaires and have your body measurements taken.

9. What are the advantages and possible disadvantages or risks of taking part?

The information gained from this research will help to improve health, wellbeing and employability services in England but may not benefit you personally. Whilst we do not think you will come to any harm by taking part in this study, we have procedures in place for reporting, investigating, recording and handling negative events and complaints from volunteers who take part in the research.



If you feel upset during any part of this research, you can stop taking part at any time without giving any reason. You will also be able to contact the following organisations for support by calling these numbers if needed:

NHS Mental Health Services: 111

Samaritans: 116123

10. How will my information be managed?

Your local ASPIRE hub is responsible for looking after your personal information however, Bournemouth University (BU) is the organisation with the overall responsibility of making sure that your information is stored and used properly. Research is a task that we perform in the public interest, as part of our core function as a university.

This research will involve collecting and/or generating information about you. We manage research data strictly in accordance with:

- Ethical requirements; and
- Current data protection laws. These control the use of information about identifiable individuals, but do not apply to anonymous research data: "anonymous" means that we have either removed or not collected any pieces of data or links to other data which identify a specific person as the subject or source of a research result.

BU's <u>Research Participant Privacy Notice</u> provides more information about how we meet our responsibilities and about your rights as an individual under the data protection law. We ask you to read this Notice so that you can fully understand how we will use your personal information. We will only use the information that we collect from or about you for the research. Only your local ASPIRE coordinator will know your name or contact details, and only to contact you to arrange appointments with you. Everyone involved in this study will keep your data safe and secure. We will also follow all privacy rules as stated in the privacy notice. We will make sure no-one can work out who you are from the reports we write.

Your information in an anonymised form may be included within a dataset to be archived at BU's Online Research Data Repository.

11. Will my taking part in the research be kept confidential?



Yes, you will be assigned an anonymous code (ID number) which you will use throughout your time in the research. This will help to keep any information you provide confidential and will not be linked to any personally identified information you provide.

12. Who to contact for more information

If you have any questions or would like more information, please contact your local ASPIRE coordinator:

Boscombe Hub

Martha Searle Mobile: 07901 701908 Tel: 01202 128454 Email: martha.searle@bcpcouncil.gov.uk <u>Medway Hub</u> Julie Webster *Mobile:* 07983958768 *Tel:* 01634334620 *Email:* julie.webster1@nhs.net

Aylesham Hub Angela Doggett Tel: 01304840134 Email: angela.doggett@bechange.org.uk

13. In case of complaints

If you still have more concerns about this research or about taking part in this research, please contact Professor Vanora Hundley, Deputy Dean of Research and Professional Practice, Faculty of Health and Social Sciences:

Email: researchgovernance@bournemouth.ac.uk

14. What happens next?

If you decide to take part, you will be given a copy of this participant information sheet to keep. You will also be asked to sign a consent form to show that you agree to take part in the research. You will also be given a copy of your signed consent form to keep.

Thank you for thinking about taking part in this research.





IRAS ID: 288333 Photovoice consent form version 3 24.05.2021



Participant Consent Form – ASPIRE Photovoice Study

Full title: Adding to Social capital and individual Potential In disadvantaged REgions (ASPIRE) IRAS Project ID: 288333

Section A: To be completed by ASPIRE coordinator prior to enrolment into Photovoice study

Participant identification number: Name, position and contact details of ASPIRE coordinator:

.....

.....

Section B: Agreement to participate in the research

To be completed by participant prior to data collection activity

You should only agree to take part in this research if you agree with all of the statements in this table and accept that taking part will involve the listed activities.

		Initial box
		to agree
1.	I confirm that I have read and understood the Participant Information Sheet (PIS Photovoice Version 3; 24.05.2021) and have been given access to the BU Research Participant <u>Privacy Notice</u> which explains how my personal information is collected and used (<u>https://www1.bournemouth.ac.uk/about/governance/access-</u> information/data-protection-privacy).	
2.	I have had an opportunity to ask questions and I am happy with the answers.	
3.	I understand that taking part is voluntary. I can stop taking part at any time without giving a reason, without my medical care or legal rights being affected and I can refuse to answer any particular question or questions.	
4.	I understand that taking part in this aspect of the research will include the following activities:	
•	Taking some photographs which show how I felt about taking part in activities at my ASPIRE hub.	
•	A sound recording being made of my interview as part of the research.	
•	My words will be quoted in publications, reports, web pages and other research outputs (without using my real name).	
•	The photographs that I take as part of the research will be included in research outputs.	



5.	I understand that, if I withdraw from the study, I will also be able to withdraw my information from further use in the research except where my information has been anonymised (as I cannot be identified).	
6.	I understand that my information may be included in an anonymised form within a dataset to be archived at BU's Online Research Data Repository.	
7.	I understand that my information may be used in an anonymised form by the research team to support other research in the future, including future publications, reports or presentations.	
	I understand that should I disclose something of concern during the interview, the person conducting the interview may need to break confidentiality as part of their duty of care and support me to contact an agency that could help.	
l agre	e to take part in the research on the basis set out above (Section B)	

Section C: I confirm my agreement to take part in the research as indicated above.

Name of participant (BLOCK CAPITALS)	Date (dd/mm/yyyy)	Signature
Name of person taking consent (BLOCK CAPITALS)	Date (dd/mm/yyyy)	Signature

Section D: Record Keeping

Once a Participant has signed, please sign 1 copy and take 2 photocopies:

- Original kept in the local investigator's file
- 1 copy to be kept by the participant (including a copy of participant information sheet)





Participant Information Sheet – ASPIRE Photovoice study

1. The title of the project:

Adding to Social capital and individual Potential In disadvantaged REgions (ASPIRE)

2. Invitation to take part

We are inviting you to take part in the photovoice research as part of the ASPIRE project. Before you decide, it is important for you to understand why the research is being done and what it will involve. Please take time to read the following information carefully and discuss it with others if you wish. Ask us if there is anything that is not clear or if you would like more information. Please take time to decide whether or not you wish to take part.

Thank you for your time.

3. What is the purpose of ASPIRE?

Background

Living with obesity and overweight puts people at risk of serious illnesses such as heart disease, stroke, diabetes, lung disease, cancers and early death. More people are suffering from obesity in the UK, leading to growing concerns over its long-term impact on health.

National Targets

We are all being encouraged to practise healthy lifestyles to prevent, manage and reverse obesity. In England, rates of obesity have been found to be highest where the number of people unemployed and on low incomes are also high. Fresh, local, healthy food are often expensive, and seem more difficult to cook. People spend less time cooking, they are less active but busier, buying more convenience and fast food.

The goal of ASPIRE

The overall goal of the ASPIRE project is to give participants the support, skills and confidence needed to make healthier lifestyle choices for both them and their families. By practising a



healthy lifestyle and learning new skills, individuals will be able to improve wellbeing and if relevant chances of:

- Reducing their weight
- Increased activity levels
- Volunteering

The findings from ASPIRE may help to improve the services that individuals with obesity or overweight or who are unemployed receive. This research is to help us understand your experiences through your ASPIRE journey.

4. Why have I been invited?

You have been invited to take part in this research, which is an aspect of the ASPIRE project, because you have previously taken part in activities at an ASPIRE hub. We would like to know more about your experiences through the ASPIRE journey and whether the activities have helped you or not. Other adults who live within communities in Medway, Boscombe and Kent who have taken part in ASPIRE activities will also be invited to participate.

5. Do I have to take part?

Taking part is completely your choice, and it is up to you to decide whether or not to take part. If you initially decide to take part, you can change your mind at any stage. If you do decide to take part, you will be given this information sheet to keep and be asked to sign a consent form. We want you to understand what taking part involves, before you decide whether to participate.

6. Can I change my mind about taking part?

Yes, you can stop taking part in this part of the research at any time and without giving a reason. This will not affect your ability to take part in any of the ASPIRE activities or any services that you receive as part of your care.

7. If I change my mind, what happens to my information?

After you decide to no longer take part in this research, we will not collect any more information from or about you, but we will keep information about you that we already have if it is important to the research. It will not be possible for us to remove your information because you will not be identifiable.



8. What would taking part involve?

You will be given this information sheet to read and your name and contact details will be taken. After a few days your local ASPIRE coordinator will contact you by phone and will ask if you are still interested in taking part. If you say that you are no longer interested, then we will thank you for your time and will not contact you again. If you say that you would like to continue with the research, then your ASPIRE coordinator will arrange a time for you to visit the ASPIRE hub at a time that suits you. At this meeting you will talk through what you need to do and answer any questions you may have. If you would still like to take part, you will be asked to sign a consent form.

The next steps will include the following:

- o Recording some basic information about you: Age/Gender
- Finding out how to use the camera that you will have during the project.
 - Ensure you understand what you can and cannot photograph.
 - What to do if there will people in your photographs.
 - What will happen to the photos that you take.
 - Practise taking some photos.
- You will be asked to take photographs of how taking part in ASPIRE makes you feel.
 - You may choose to start the next day or it may be more convenient for you to leave it until a few days later.
 - Your coordinator will ask you when you think you will start to take photographs and then contact you to check that you are happy with everything and to arrange a time for you to bring back the camera.
- You will complete a logbook documenting each photograph.

9. What will happen to my photographs?

Once the camera has been collected the photographs will be put onto a computer and your coordinator will ask you to select at least 5 photographs that you want to talk about. He or she will then ask you some questions about them. The length of the interview is hard to predict as it depends how many photographs you want to discuss and how much discussion is generated but will probably be between an hour to an hour and half.

Once the interview has finished, your coordinator will discuss again the information covered in your visit before the photographs. They will confirm how the photographs and interview will be stored and ensure that they have a written permission from you to use the photographs you have spoken about in any ways we share the findings. If there are any photographs that



you do not want used, it will be ensured that this is carefully recorded so they are not published in any way. If any photographs contain images of people, their faces will be obscured through 'pixilation' of the image so that people cannot be identified. This will be done once you have looked at the images for the interview. You will be offered all of your photographs on a memory stick to keep. Once an interview has been completed and signed photographic permission gained, researchers at Bournemouth university will carry out detailed analysis of the results in order to write a report for the ASPIRE project. The findings may also be shared through articles written in journals or events such as exhibitions or conferences.

Expenses and payments?

You will be given a £25 voucher for taking part in this project and your travel expenses will be reimbursed.

10. What are the advantages of taking part?

The information gained from this research may help to improve health, wellbeing and employability services in England but may not benefit you personally.

11. What are the possible disadvantages or risks of taking part?

It is unlikely that there will be any risks in taking part in this research. However, when carrying out interviews about roles and meanings of things in your life, it is possible that this may generate emotional responses. If you feel upset during the interview process, the interview can be stopped at any time. You will also be able to contact the following organisations for support by calling these numbers if needed:

NHS Mental Health Services: 111

Samaritans: 116123

If during the interview a situation arose that gave your local coordinator who is conducting the interview concern for your wellbeing (for example the likelihood of self-harm or harm to others), they would discuss this with you. If necessary, they may have to break confidentiality and support you to contact an agency that could help. This would be part of their duty of care to participants.

12. Will I be recorded, and how will the recorded media be used?

The interview after you take the photographs will be recorded and the sound recordings will be used only for analysis and the transcription of the recording(s) in reports or publications.



No other use will be made of them without your written permission, and no one outside the project will be allowed access to the original recordings.

13. Will my taking part in the study be kept confidential?

All interviews will be recorded on a digital Dictaphone for the purpose of transcription and these interviews will be downloaded and recorded securely in accordance with the Data Protection Act 1998. All photographs, interviews, transcripts and information will be held securely for 5 years after the study has been completed (Data Protection Act 1998) and will then be destroyed securely.

Anonymity will be maintained as much as possible however due to the use of photography there is a chance that someone may recognise a location or setting that appears in your photographs and this could lead to you being identified. As much as possible anonymity will be maintained through ensuring any faces in images are pixelated. This is something that your ASPIRE coordinator will discuss with you to ensure that this is understood when seeking written consent for using photographs.

Your real name will not be used when discussing research findings. Pseudonyms which will mean a different name will be used in any work so that at any time your interview or photographs are being referred to a different name will be used rather than your real one. For anyone else that you may talk about during the interview (or who may appear in a photograph) they will either be referred to by their relationship with you (husband, wife etc.) or be given a pseudonym. The real names and associated pseudonyms will only be known to your ASPIRE coordinator and will be kept in a separate document securely stored on the password protected system and an encrypted external hard drive. The hard drive and any paper documents will all be stored in a locked filing cabinet.

14. How will my information be managed?

Your local ASPIRE hub is responsible for looking after your personal information however Bournemouth University (BU) is the organisation with the overall responsibility of making sure that your information is stored and used properly. Research is a task that we perform in the public interest, as part of our core function as a university. This research will involve collecting and/or generating information about you. We manage research data strictly in accordance with:

Ethical requirements; and



 Current data protection laws. These control the use of information about identifiable individuals, but do not apply to anonymous research data: "anonymous" means that we have either removed or not collected any pieces of data or links to other data which identify a specific person as the subject or source of a research result.

BU's <u>Research Participant Privacy Notice</u> provides more information about how we meet our responsibilities and about your rights as an individual under the data protection law. We ask you to read this Notice so that you can fully understand how we will use your personal information. We will only use the information that we collect from or about you for the project. Only your local ASPIRE coordinator will know your name or contact details, and only to contact you to arrange appointments with you. Everyone involved in this study will keep your data safe and secure. We will also follow all privacy rules as stated in the privacy notice. We will make sure no-one can work out who you are from the reports we write.

Your information in an anonymised form may be included within a dataset to be archived at BU's Online Research Data Repository.

15. Who to contact for further information?

If you have any questions or would like further information, please contact your local ASPIRE coordinator.

Boscombe Hub

Wilbert Smith Tel: 01202 817648 Email: <u>wilbert.smith@bcpcouncil.gov.uk</u> Medway Hub

Julie Webster Mobile: 07983958768 Tel: 01634334620 Email: julie.webster1@nhs.net

Aylesham Hub

Angela Doggett Tel: 01304840134 Email: angela.doggett@bechange.org.uk

16. Who do I contact in case of complaints?

If you still have more concerns about this project or about taking part in this project, please contact Professor Jane Murphy, Deputy Dean of Research and Professional Practice, Faculty of Health and Social Sciences:



Email: researchgovernance@bournemouth.ac.uk

17. What happens next?

If you decide to take part, you will be given a copy of this information sheet and a consent form to sign. You will also be given a copy of your signed consent form to keep.

Thank you for considering taking part in this project.





ASPIRE EVALUATION - PHOTOVOICE STUDY

Guide for taking pictures:

We would ask you to take some pictures that describe how you feel about the ASPIRE project.

- Picture 1: A photo that describes your life before coming along to the ASPIRE project.
- Picture 2: A photo that shows how your life has been during the ASPIRE project.
- Picture 3: A photo that describes your life now after coming to the ASPIRE activities.
- Picture 4: A photo showing how will your life be if the ASPIRE project did not exist.
- Picture 5: A photo showing what ASPIRE means to your health, wellbeing or employability.
- Picture 6: A photo that shows any challenges you encountered on your ASPIRE journey.
- Picture 7: A photo that shows the biggest change ASPIRE has had on your life.

