

Community Engagement – approaches to improve health and reduce health inequalities

Cost-consequence analysis

Health Economics 3

Optimity Advisors July 2015





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Glossary

Cost-consequence analysis (CCA) "One of the tools used to carry out an economic evaluation. This compares the costs (such as treatment and hospital care) and the consequences (such as health outcomes) of a test or treatment with a suitable alternative. Unlike cost-benefit analysis or cost-effectiveness analysis, it does not attempt to summarise outcomes in a single measure (such as the quality-adjusted life year) or in financial terms. Instead, outcomes are shown in their natural units (some



of which may be monetary) and it is left to decision-makers to determine whether, overall, the treatment is worth carrying out''^1 .

Comparator: The standard intervention against which an intervention is compared in a study. The comparator can be no intervention (for example, usual or standard care)².

Peer/lay delivered: This involves services engaging communities, or individuals within communities, to deliver interventions. In this model, change is believed to be facilitated by the credibility, expertise or empathy that the community member can bring to the delivery of the intervention.

Collaboration: This involves engagement with communities, or members of communities, in strategies for service development, including consultation or collaboration with the community about the intervention design. Such models hold the underlying belief that the intervention will be more appropriate to the participants' needs as a result of incorporating stakeholders' views.

Empowerment: Empowerment models require that the health need is identified by the community and that they mobilise themselves into action. These models have the underlying belief that, when people are engaged in a programme of community development, an empowered community is the product of enhancing their mutual support and their collective action to mobilise resources of their own and from elsewhere to make changes within the community.

Community health champions: Individuals who are trained and supported to help and motivate their friends, family, neighbours and colleagues to lead more healthy lives.

¹NICE Glossary. <u>https://www.nice.org.uk/Glossary?letter=C</u> [Accessed 26/05/15] ²NICE glossary. <u>https://www.nice.org.uk/Glossary?letter=S</u> [Accessed 20/05/15]



1. Introduction

1.1. Background

NICE has been tasked with developing guidance on Community engagement - approaches to improve health and reduce health inequalities'.

Optimity Advisors has been commissioned to undertake an economic analysis to support the development of the NICE guideline on 'Community engagement - approaches to improve health and reduce health inequalities' in order to update Public Health Guideline 9, published in 2008.

The work to update the guideline is divided in three streams:

- Community engagement: a report on the current effectiveness and process evidence, including additional analysis (stream 1);
- Community engagement: UK qualitative evidence, including one mapping report and one review of barriers and facilitators (stream 2);
- An economic analysis cost effectiveness review and economic model (stream 3).

Optimity Advisors has been commissioned to undertake the Stream 3 work package. Initially, it comprised three components, a précis of the economic evidence reported in "Community engagement to reduce inequalities in health: a systematic review, meta-analysis and economic analysis" (O'Mara et al., 2013³), a rapid update review and an economic model. However, in discussion with NICE and the committee, the development of an economic model has been replaced with 3 cost-consequence analyses and a review of the social return on investment (SROI) evaluations. This report relates to the cost-consequence analyses.

The detailed information about other streams is presented elsewhere and is not replicated here. A detailed specification of the guidance is provided in the scope⁴.

1.2. Aims

The aim was to conduct an economic analysis to answer three research question in the area of community engagement:

³O'Mara-Eves A, Brunton G, McDaid D, Oliver S, Kavanagh J, Jamal F et al. (2013). Community engagement to reduce inequalities in health: a systematic review, meta-analysis and economic analysis. Public Health Research 1(4). Available at:

http://www.journalslibrary.nihr.ac.uk/ data/assets/pdf file/0006/94281/FullReport-phr01040.pdf

⁴National Institute for Health and Clinical Excellence; Public Health Guideline; Community engagement: approaches to improve health and reduce health inequalities - Guideline scope: <u>https://www.nice.org.uk/guidance/gid-phg79/documents/community-engagement-update-final-scope-2</u>



Question 1: How cost-effective are community engagement approaches at improving health and wellbeing and reducing health inequalities?

Question 2: How cost-effective are community engagement approaches at encouraging people to participate in activities to improve their health and wellbeing and realise their capabilities – particularly people from disadvantaged groups?

Question 3: What processes and methods help communities and individuals realise their potential and make use of the all the resources (people and material) available to them?

To answer these questions, a convenience sample of three interventions was selected from a review conducted by stream 2 and based on advice from NICE. For each of these, we undertook economic analysis assessing the **cost** of each intervention, its **effects** in terms of benefits to health, wellbeing and/or reducing inequalities, and the possible subsequent **impact** that a potential improvement could generate.

The three case studies were selected to provide one example in each of the three categories of community engagement considered in the review of cost-effectiveness evidence, namely peer/lay-led interventions, those characterised by collaboration and those centred on the concept of empowerment. In relation to the three questions identified above, the examples presented here are more informative with respect to questions 1 and 2 than question 3.

1.3. Community engagement

Community engagement is defined as "an umbrella term encompassing a continuum of approaches to engaging communities of place and/or interest in activities aimed at improving population health and/or reducing health inequalities"⁵. A more detailed definition has been proposed by the Evidence for Policy and Practice Information (EPPI) team which co-authored the O'Mara-Eves et al. (2013) report. The term community engagement applies to:

"Community-level interventions or interventions that involve a group of people connected by geographies, interests or identities in the design, development, implementation or evaluation of an intervention. Participants must include members of the public or patients (more than health professionals, pharmacists, public health nurses, other health semi-professionals) that are involved in the design, delivery or evaluation of the intervention. The treatment administrator/provider is more important for determining community engagement than the intervention setting. Intervention types to be excluded are legislation, policy and pharmacological."

⁵Popay J (2006). Community engagement for health improvement: questions of definition, outcomes and evaluation. A background paper prepared for NICE. London: National Institute for Health and Care Excellence.



The scope for the guideline associates community engagement with activities by which people can improve their health and wellbeing by helping to develop, deliver and use local services. Community engagement can involve varying degrees of participation and control. For the purposes of the economic analysis, NICE is particularly interested in the three main theoretical approaches to community engagement identified in the review cited above by the Evidence for Policy and Practice Information and Coordinating Centre (EPPI-Centre). These are:

- Peer/lay delivered interventions.
- Collaboration between health and other statutory services and communities.
- Interventions centred on the concept of empowerment.

The following definitions are drawn from the O'Mara-Eves et al. (2013) study previously cited.

Peer-/lay-delivered interventions.

"This involves services engaging communities, or individuals within communities, to deliver interventions. In this model, change is believed to be facilitated by the credibility, expertise or empathy that the community member can bring to the delivery of the intervention."

Collaboration.

"This involves engagement with communities, or members of communities, in strategies for service development, including consultation or collaboration with the community about the intervention design. Such models hold the underlying belief that the intervention will be more appropriate to the participants' needs as a result of incorporating stakeholders' views."

Empowerment.

"Empowerment models require that the health need is identified by the community and that they mobilise themselves into action. These models have the underlying belief that, when people are engaged in a programme of community development, an empowered community is the product of enhancing their mutual support and their collective action to mobilise resources of their own and from elsewhere to make changes within the community."



2. Methods

2.1. Selection of case studies

Based on the case studies identified by the review team (workstream 2), the PHAC and NICE project team identified three intervention types for inclusion in the cost-consequence analysis, (CCA) on the grounds that these interventions represent each community intervention type – peer/lay delivered, collaboration and empowerment. The intervention selected to represent each category was agreed with the PHAC and the NICE project team. The following interventions were selected for economic analysis:

- Peer/lay delivered *Life is Precious*
- Collaboration Connected Communities (C2): Positively Local
- Empowerment *Leeds Gypsy and Traveller Exchange* (GATE)

For these interventions, we carried out cost-consequence analysis (CCA). The economic analysis was conducted in line with NICE's "Methods for the development of NICE public health guidance"⁶.

The case studies included in the CCA were classified by workstream 2 into these 3 categories. In the next section we present the details of the three programmes. A brief overview of each programme is followed by a table summarising the results of the CCA.

2.2. Analysis methodology

CCA was deemed to be the most suitable type of economic analysis for this topic, and this was agreed with the PHAC and the NICE project team.

CCA compares costs (i.e. the cost of implementing a programme or intervention) with its consequences, such as health outcomes, quality of life, wellbeing, or cost savings. "Unlike cost-benefit analysis or cost-effectiveness analysis, it does not attempt to summarise outcomes in a single measure (such as the quality-adjusted life year) or in financial terms. Instead, outcomes are shown in their natural units (some of which may be monetary) and it is left to decision-makers to determine whether, overall, the treatment is worth carrying out"⁷ In CCA, a 'balance sheet' of monetary, quantitative, and descriptive consequences is presented.

CCA was thus selected as:

⁶ National Institute for Health and Care Excellence, 2012. Methods for the development of NICE public health guidance (third edition). <u>http://www.nice.org.uk/article/pmg4/chapter/6-incorporating-health-economics</u> ⁷NICE Glossary. <u>https://www.nice.org.uk/Glossary?letter=C</u> [Accessed 26/05/15]



- There is limited strong statistical evidence on the relationships between intervention effects and subsequent impacts, compounded by the variety of ways in which effects are reported;
- The complex nature of the intervention and the lack of a clear comparator makes it very difficult to definitively assess cause and effect and report a statistically significant outcome.

Costs of each intervention (over and above its comparator) were assessed through Optimity's own research (where not reported by the intervention paper), drawing on published unit costs from standard national sources such as the Personal Social Services Research Unit⁸ (PSSRU) and studies of similar interventions. Costs were calculated using a bottom-up approach, i.e. building up the total intervention cost from the components described in the intervention paper.

Consequences were included as reported by the intervention papers.

Impacts were reported in two ways: financial consequences describe the potential cost savings to the health service from improved health, quality of life etc. and descriptive consequences outline the likely impact both to the individual in terms of health and wellbeing which might encompass outcomes relating to health, education, crime and other impacts and the community as a whole, such as social cohesion (as reflected, for example, in public attitudes). While intervention effects are reported only from the original study paper, consequences draw on the literature identified in our systematic review as well as any other available data found through searching specifically for each CCA.

Consequences are reported in as much detail as the data from the source studies allow, and, where quantified impacts are reported in the original evaluations, they are presented here. Costings combined information available from the evaluation reports with Optimity's illustrative assumptions about, for example, staff time required to implement the programme and standard sources of unit costs.

It was decided to colour code the outcomes (consequences) of the project into the traffic light system where green indicates a positive outcome, amber no difference or a non-statistically significant finding and red indicates a negative outcome, as well as provide a description of consequences, and any financial impacts that could be calculated. However, due to the nature of the case studies, only positive consequences are reported (although generally without tests of statistical significance); therefore, the consequences listed in the summary tables have been shaded green. The following sections provide a brief overview of each case study followed by the summary tables.

2.3. Details of case studies

⁸Personal Social Services Research Unit. Unit Costs of Health and Social Care 2014. <u>http://www.pssru.ac.uk/project-pages/unit-costs/2014/</u> [Accessed 26/05/15]



Life is Precious

Peer/lay delivered

Project description

Life is Precious is a cancer awareness and health improvement project using creative arts approach to engage with local minority ethnic communities in Dudley. The project aims to involve communities in a dialogue around cancer and focused on three languages – Urdu, Punjabi and Arabic. *Life is Precious* aims to increase awareness of cancer signs and national screening programmes for cervical, breast and bowel cancers. The age groups "…reflected those eligible for the three cancer screening programmes; cervical (25-64), breast (50-70) and bowel (60-74)"⁹. Additionally, the programme aimed to recruit community health champions that could help to increase cancer awareness in the community after the completion of the creative arts workshops.

Project delivery

There were a number of stakeholders involved in the project. An initial meeting to give an overview of the project was attended by representatives of Dudley PCT and the Walsall creative development team. Working alongside community representatives, a series of consultation meetings was held to plan the creative arts workshops. Community leaders/representatives and individuals from local minority ethnic communities took part in a number of these arts based cancer awareness workshops A 5 week programme of workshops of one 3 hour workshop per week was scheduled and it was advised that attendance at all workshops would be beneficial. A community health improvement team was responsible for overseeing, co-ordinating and managing the programme. The Walsall Council creative development team was responsible for recruiting and managing the freelance artists that took part in the workshops. The Principal Arts and Health Officer managed and led a team of 6 freelance artists. Where possible, the artists met with community representatives to share their ideas for the content of the workshops. Interpreters were also involved in the delivery of the project. The delivery team consisted of artists, community leads, interpreters and representatives from the PCT and creative development team. Primary care staff were responsible for the accuracy of cancer awareness information. A multi-agency reference group consisting of the Public Health Inclusion Team, the Dudley Council Adult & Community Learning Team and the Performing Arts Team gave advice on project delivery. An arts network also supported a PhD student in carrying out a qualitative evaluation of the programme.

The programme consisted of five phases:

Phase 1: Community engagement and recruitment of participants; during this phase the project leads (from Dudley PCT and Walsall creative development team) set up the project to meet the needs, interests and logistic requirements of the participants.

⁹Curno P, Parker R, Pritchard J, Sogi P(2012). Life is Precious; Dudley Cancer Awareness Arts & Health Project; Evaluation Report September 2011



Phase 2: Creative participatory arts process; the workshops were designed to engage community members through arts. In total, 55 arts workshops were held and 106 participants took part. The words and images created by the participants during the workshops were transformed into fridge magnets and z-cards (foldable guides) in three languages (Urdu, Punjabi and Arabic). These cards and magnets were disseminated through numerous events to local communities.

Phase 3: Identifying the outcomes; both quantitative and qualitative evaluations were performed to measure project outcomes. To measure awareness, the Cancer Awareness Measure (CAM) survey was used. The CAM survey was administered before and after the project. The CAM survey was used to capture the effectiveness of the arts intervention and its effect on cancer symptom awareness. In addition, the Short Warwick Edinburgh Mental Well-Being Scale (SWEMWBS) was used to measure changes in feeling and attitudes of the participants. SWEMWBS was administrated before and after the workshops.

Phase 4: Sharing and celebrating; during this phase, the participants had a chance to meet different community groups and share their art work.

Phase 5: Building a legacy; after the creative arts workshops has been completed, the final objective of the project was to recruit community health champions, from the participants in the workshops, who would continue awareness raising activities within their communities. A consultation exercise was conducted with participants in the workshops to ascertain whether they would be interested in becoming community health champions. Additional training was developed for workshop participants who volunteered to become health champions to assist them with their role. In total, 54 project participants expressed an interest in becoming community health champions.

Project outcomes

The key project outcomes as reported in the evaluation report prepared by Curno et al. (2012) and cited above are summarised below. Full details of the outcomes are given in the table.

Increased awareness;

The programme found that there was an increase in the awareness of signs and symptoms of cancers and an increase in the proportion of participants who reported that they would make an appointment straight away with a doctor to discuss a sign/symptom. Knowledge of cancer causes and national screening programmes also increased.

• Engagement in the community groups;

"The project was successful in empowering and engaging with the identified community groups and participants demonstrated a high level of commitment with good attendance at most of the Sessions. Doing art together helped participants to identify how they could support each other in order to promote the messages and help build relationships. Participants bonded when they considered ways in



which they could engage with the wider community about cancer awareness issues, and were able to adapt the cancer messages to make them relevant to their community" (Curno at al., 2012).

• Personal development;

The participants reported increases in the cumulative well-being scores (measured by SWEMWBS). The artists that helped participants during the workshops thought that the participants developed confidence in expressing their identity. Participants also learnt and practised their communication skills.

• The role and value of art;

The participants learned creative techniques. Workshops helped people to relax. It was found that participants "...felt more comfortable signing up for creative sessions than they would for a health session" (Curno et al., 2012). More details on the outcomes of the programme are presented in the cost-consequence analysis sections.

Ingredients for success;

A number of steps were identified for success in the implementation of the programme. The steps included: planning and preparation, engagement, delivery, production of resources, evaluation and sustainability.

Aspect of community engagement:

The project brings together the minority ethnic groups and communities together to improve cancer awareness. For example, step 2 of the programme is all about engaging with the community.

Type of community engagement – peer/lay delivered:

This project was classified in this category due to the following characteristics: The intervention is delivered by a number of stakeholders to increase cancer awareness and also aims to encourage participants to "...support each other, and consider how they can share messages with the wider community". Additionally, the programme recruits Community Health Champions that are part of the community and deliver health and wellbeing interventions within their own community.

Key findings

Table 1 presents key findings from the cost-consequence analysis, including a short description of the intervention, study outcomes as reported directly in the text (whereby green indicates a positive outcome; amber no difference or a non-statistically significant finding; and red indicates a negative outcome), as well as a description of consequences, and any financial consequences that could be calculated. As with the other examples, only green shading has been applied to the consequences for this case study.

More detail on the way in which these results were calculated is given below Table 1.



Table 1: Key findin						
Intervention	Curno P. 2012. Life is Precious; Dudley Cancer Awareness Arts & Health Project;					
paper	Evaluation Report September 2011					
Intervention	Life is Precious					
Study design	Case study					
	Theoretical approach: peer/lay delivered					
	Arts approach					
	Conducted in the UK					
	 Dudley PCT and Walsall Council 					
	• In three languages: Urdu, Punjabi and	Arabic				
	• The programme aimed to highlight t	he following nat	tional can	cer screening		
	programmes:	0		C		
	 Cervical cancer, ages 25-64 					
	• Breast cancer, ages 50-70					
	• Bowel cancer, ages 60-74					
Intervention	Life is Precious is a cancer health impro	ovement project	commiss	ioned by the		
description	Dudley Public Health Community Health I			-		
	creative arts approach to engage local peo	ple from minorit	y ethnic co	mmunities in		
	a dialogue around cancer.					
	The purchast and subtain					
	The project set out to:					
	 Increase awareness of cancer signs and symptoms and the importance of the three national screening programmes for convical breast and beyon screening. 					
	three national screening programmes for cervical, breast and bowel cancer;					
	Involve minority ethnic communities in the development of images to inform					
	the content and design of cancer awareness resources;					
	Recruit Community Health Champions					
Intervention cost	<i>Life is Precious: Optimity calculations</i> (4 ph Community Health Champions): £169 per p		-			
	Recruitment of Community Health Champions: £2,700 per Champion or £145,800 (54 Champions)					
	All 5 phases of <i>Life is Precious</i> : £1,544 per participant or £163,670 in total (106					
	participants)					
Study outcomes	Awareness measured by CAM survey					
(as per Curno,	Increase in awareness of warning signs and symptoms of cancer following the					
2012)	workshops measured by the Cancer Awareness Measure (CAM) survey					
	A higher proportion mentioned signs/symptoms of:					
	Input	Pre	Post	Change		
	Lump/swelling49%63%14%					
	Pain	20%	37%	17%		

¹⁰Curno P, Parker R, Pritchard J, Sogi P (2012). Life is Precious; Dudley Cancer Awareness Arts & Health Project; Evaluation Report September 2011. Dudley: Dudley Public Health Department.



Bleeding		7%	34%	26%
Change in bowel/bla	adder habits	3%	14%	11%
Change in appearan	ce of a mole	0%	12%	12%
A higher proportion	were aware when prompt	ed of the sig	ns/sympto	ms of:
Persistent unexplair	ned pain	46%	66%	20%
Unexplained bleeding	ng	53%	69%	16%
Change in bowel/bla	adder habits	51%	69%	18%
	ntial increase in the proport ointment with a doctor stra nptom:			
Pre	Post	(Change	
46%	71%	2	25%	
awareness of the NI	reases in the awareness of HS screening programmes f mentioned unprompted th	for cervical,	breast and	bowel cancer
Input		Pre	Post	Change
Smoking		53%	73%	20%
Drinking alcohol		25%	34%	9%
Exposure to anothe	r person's smoke	19%	37%	18%
Eating red or proces		5%	25%	20%
	were aware when prompt	ed of the po		ses of:
Eating red or proces	54%	71%	17%	
Being overweight	64%	75%	11%	
Getting sunburnt m	51%	66%	15%	
Being over 70 years		44%	71%	27%
Infection with HPV		37%	61%	24%
 Engagement measured through number and make-up of participants, observations and feedback from artists and participants It is reported that the project was successful in empowering and engaging with identified community groups (as indicated by artists' reflections) and participant demonstrated a high level of commitment with attendance at most of the sessi described as 'good' as reported by the artists Doing art together helped participants to identify how they could support each other in order to promote the health messages and help build relationships Participants bonded when they considered ways in which they could engage with the wider community about cancer awareness issues, and were able to adapt the cancer messages to make them relevant to their community As a result of the project 54 of the 106 participants expressed an interest in becoming a Community Health Champion to share the information they had leawith others in their community 				ging with the participants f the sessions port each hships engage with to adapt the rest in
Personal developm Increase in the cum feelings and though	ent measured by SWEMW ulative well-being scores af ts that best described parti (mean Short Warwick Edir	ter the worl cipants' exp	eriences ov	ver the



	(SWEMWBS) score (no significance test is reported):					
	Pre	Post	Change			
	28	30	2			
	The artists felt participants had developed in confidence and used the art wo express their own identity. The author also claims that there was an evidence participants becoming more empowered (artists' reflections are reported in context) and willing to address cultural barriers Participants learnt and practised their communication skills; this made them re confident about sharing the messages from the project in the future Increase in skills, confidence and well-being supported 54 participants of a tota 106 to identify themselves as potential Community Health Champions					
	 106 to identify themselves as potential Community Health Champions Others felt that learning a new creative skill helped slow down the learning around cancer awareness (the reasons for this were not explored); but rather than prevent this learning from happening, the creative process helped provide space and time for people to reflect upon the message they had been given and learn at a pace that was more comfortable and less pressurised. Once they had learnt more about the issues, the participants were enthusiastic about suggesting ways to help spread the messages. The artists felt they had developed in confidence and used the art work to express their own identity. No detail or explanation is given on this The report claims that there was also evidence of participants becoming more empowered and willing to address cultural barriers. The breast cancer awareness 					
	(but culturally inappropria explanation is given to suppo <i>Life Is Precious</i> Celebration	Event	o further evidence or			
	gained:	vho attended the event the				
	• 64 (100%) reported that event	at they had spoken to or me	et somebody new at the			
	• 55 (85%) reported that to by the other groups	they had the opportunity to se	ee the art work produced			
	• 57 (89%) reported that	they felt proud of their art wo	rk			
	specifically: • Trying a new art fo • Gaining new inform	nation (19%);	ng new from attending			
		vices (1%); new opportunities/volunteerir	ng/funding (1%);			
		details given (37%).				
Financial consequences	benefits; however, following report presents some evid	the project outcomes can be g the workshops of the <i>Life is</i> lence of increased awarenes less can be potentially transl	Precious programme, the ss of cancer symptoms.			



	benefits. Cancer services cost the NHS £5bn per year. Inclusion of the cost of loss productivity increases this cost to £18.3bn and represents the cost to society as a whole ¹¹ . This is indicative of other potential benefits which might be possible from the programme.
	It is found that 4 in 5 people with a cancer diagnosis are affected by the financial impact of cancer and on average incur costs of £570 per month. "Almost one in three (30%) people living with cancer experienced a loss of income as a result of their diagnosis; those affected lose, on average, £860 a month" ¹² .
	The average cost of inpatient hospital treatment for breast cancer up to 7 years following the diagnosis is estimated at $\pm 10,200^{13}$.
	The mean total cost per patient with bowel cancer was estimated at $\pm 8,808^{14}$.
	"Screening has reduced cervical cancer incidence and prevents ~4,500 deaths each year. Estimated savings are £36,000 per life saved and £18,000 per cancer prevented" ¹⁵ .
Descriptive consequences	Recognition and early detection of cancer increases the chances of successful treatment. "Increased awareness of possible warning signs of cancer, among physicians, nurses and other health care providers as well as among the general public, can have a great impact on the disease. Some early signs of cancer include lumps, sores that fail to heal, abnormal bleeding, persistent indigestion, and chronic hoarseness. Early diagnosis is particularly relevant for cancers of the breast, cervix, mouth, larynx, colon and rectum, and skin" ¹⁶ . The WHO emphasise the two elements of early detection: education to promote early diagnosis and screening.
	Early detection of breast cancer is likely to result in better outcomes. Detection at early stages can mean that the disease is smaller and still confided in the breast. Early detection can save lives ¹⁷ .

¹¹Gov.uk. Policy; Cancer research and treatment. <u>https://www.gov.uk/government/policies/helping-more-people-survive-cancer</u> [Accessed 14/04/2015]

¹²Macmillan. Cancer's Hidden Price Tag. <u>http://www.macmillan.org.uk/Documents/GetInvolved/Campaigns/Costofcancer/Cancers-Hidden-Price-Tag-report-England.pdf</u> [Accessed 14/04/2015]

¹³Macmillan. 2014. Cancer's Unequal Burden. The reality behind improving cancer survival rates.

http://www.macmillan.org.uk/Documents/CancersUnequalBurden 2014.pdf [Accessed 14/04/2015]

¹⁴York Health Economic Consortium University of York, School of Health and Related Research University of Sheffield. 2007. Bowel Cancer

Services: Costs and Benefits. Summary Report to the Department of Health

¹⁵Parliamentary Office of Science and Technology. 2008. Postnote. Cervical cancer. <u>http://www.parliament.uk/documents/post/postpn316.pdf</u> [Accessed 14/04/2015]

¹⁶WHO. Early detection of cancer. <u>http://www.who.int/cancer/detection/en/</u> [Accessed 14/04/2015]

¹⁷American Cancer Society. Breast Cancer Prevention and Early Detection.

http://www.cancer.org/acs/groups/cid/documents/webcontent/003165-pdf.pdf [Accessed 14/04/2015]



	HPV can lead to cervical cancer development. Early prevention and detection of the condition can help avoid the development of the cancer in the future. Outreach, community mobilization, health education and counselling are recognised to be essential in disease prevention ¹⁸ . It has been estimated that the cervical screening programmes have reduced mortality rates by 62% over the period 1987-2006 ¹⁹ .
	Early screening and detection is important in outcomes for bowel cancer. Screening tests can find polyps that can be removed before they develop into cancers. "The relative 5-year survival rate for colorectal cancer when diagnosed at an early stage before it has spread is about 90%. But only about 4 out of 10 colorectal cancers are found at that early stage. When cancer has spread outside the colon, survival rates are lower" ²⁰ .
Additional consequences	As noted, Life is Precious phase aims to recruit Community Health Champions (CHCs). However, no additional details are given on potential benefits of the CHCs programme. In this section, we summarise some potential benefits of a CHC programme, while recognising that the objectives of the programme may differ from those of Life is Precious.
	"Health Champions are people who, with training and support, voluntarily bring their ability to relate to people and their own life experience to transform health and well-being in their communities" ²¹ .
	 Impact on communities: The programme brought people together and established new group activities "to walk, share problems, go swimming, cook etc. – and so champions were helping to foster social networks" (White et al., 2010²²);
	• The programme is found to have a positive impact on health, such as weight loss, increased exercise and stopping smoking (reported by Champions) and social outcomes, such as social cohesiveness and help integrating people into their community (White et al., 2010);

¹⁸WHO. 2014. Comprehensive Cervical Cancer Control; A guide to essential practice; Second edition.

http://apps.who.int/iris/bitstream/10665/144785/1/9789241548953_eng.pdf [Accessed 14/04/2015]

¹⁹Parliamentary Office of Science and Technology. 2008. Postnote. Cervical cancer. <u>http://www.parliament.uk/documents/post/postpn316.pdf</u> [Accessed 14/04/2015]

²⁰American Cancer Society. Colorectal Cancer Prevention and Early Detection.

http://www.cancer.org/acs/groups/cid/documents/webcontent/003170-pdf.pdf [Accessed 14/04/2015]

²¹Altogether better. Unlocking the power of communities to transform lives. Health Champions. <u>http://www.altogetherbetter.org.uk/health-champions</u> [Accessed 14/04/2015]

²²White J, South J, Woodall J, Kinsella K. 2010. Altogether Better Thematic Evaluation – Community Health Champions and Empowerment. Centre for Health Promotion Research; Leeds Metropolitan University



• CHCs can be effective health promoters while working in their own communities (White et al., 2010);
 It is found that the programme is effective in tackling health inequalities (White et al., 2010);
 Volunteering is found to bring health and social benefits to those involved (White et al., 2010);
 It has been found that, for each £1 of investment in volunteer support, small voluntary organisations can gain between £2-8 of value from their volunteers (South et al., 2010²³);
 Champions can help communities to stop smoking, lose weight and/or take up walking, and achieve improved mental health and wellbeing (White et al., 2010);
 Positive impacts were seen among Champions themselves (White et al., 2010): As a consequence some champions lost weight and became more physically active;
There was a positive impact on mental health;Quality of life improved;
 General wellbeing improved;
• "Some new champions felt they had already gained a lot from just doing the training, not just in knowledge and skills but in networks and friends";
 Champions gained self-awareness, confidence and a strong sense of achievement;
Better knowledge and awareness of health issues.
To illustrate the benefits which have been reported for Community Health Champions, in this section we have included the findings of two Social Return on Investment (SROI) analyses conducted for Community Health Champions programmes in Sheffield and Calderdale.
Sheffield Community Health Champions Social Return on Investment (SROI) analysis found that for every £1 spent £6.22 (£5.51-£7.21*) is generated in benefits (Turner and McNeish, 2010^{24}).
Calderdale Community Health Champions SROI analysis found that for every £1 spent £36.11 (£31.93-£40.90*) is generated in benefits (Turner and McNeish, 2010).

*Sensitivity range

²³South K, Raine G, White J. 2010. Community Health Champions. Evidence Review. Centre for Health Promotion Research; Leeds Metropolitan University.

²⁴Turner D, McNeish D. 2012. Altogether Better Final Programme Evaluation Report 2012; Executive Summary. A report produced by DMSS Research and Consultancy for Altogether Better



There were a number of measurement scales used to measure the effect of the Life is Precious intervention. The table below presents the details of these scales.

Scale	Measure	Understanding	Source
Cancer Awareness Measure (CAM)	The topics assessed in the CAM include: awareness of warning signs, anticipated delay in seeking medical help, barriers to seeking medical help, awareness of risk factors, risk factor ranking, awareness of incidence, awareness of common cancers, and awareness of NHS screening programmes	 The CAM comprises 9 questions with a total of 47 items: Warning signs (10 items) (Q1 + Q2) Seeking help (1 item) (Q3) Barriers to seeking help (11 items) (Q4) Emotional – embarrassed, scared, worried about what the doctor might find, confidence discussing symptom (4 items) Practical – too busy, too many worries, transport (3 items) Service – wasting time, difficulty making appointment, difficulty talking to doctor (3 items) Other – verbatim (1 item) Risk factors 12 items (Q5 + Q6) Cancer and age (1 item) (Q7) Most common cancers (6 items) (Q8) NHS screening programmes (6 items) (Q9) Knowledge (3 items) Age of first invitation (3 items) 	Curno P et al., 2012; CRUK, 2011 ²⁵
Short Warwick Edinburgh Scale for Measuring Mental Wellbeing (SWEMWBS)	This scale measures any changes in feelings and attitudes associated with wellbeing	 Participants scored (out of 5) the following statements based on their feelings and thoughts that best described their experience over the last two weeks: I've been feeling optimistic about the future I've been feeling useful I've been feeling relaxed I've been dealing with problems well I've been feeling close to other people 	Curno P, 2012

Table 2: Measurement scale

²⁵Cancer Research UK, 2011. Cancer Awareness Measure (CAM); Toolkit (version 2.1).

http://www.cancerresearchuk.org/sites/default/files/health professional cancer awareness measure toolkit version 2.1 09.02.11.pdf



 I've been able to make up my own mind about things
Scoring = 1: None of the time, 2: Rarely, 3:
Some of the time, 4: Often, 5: All of the
time

Cost of the Life is Precious intervention

In the subsequent tables we present the cost calculation for the programme. The table below presents the resources utilised in the project. The data is summarised from Curno et al. (2012).

Input	Unit			
General				
Community groups	6			
Arts workshops	55			
Participants	106			
Community Health Champions recruited	54			
The words and images developed by the community participants through the workshops informed the content and design of z-cards and fridge magnets which were produced in Urdu, Punjabi and Arabic	No further information			
Disseminated through outreach events, appropriate venues and those working within health/local community	No further information			
Phase 1: Community engagement and recruitment of participar				
Representatives from Dudley PCT and Walsall Creative Development Team attending a Community Cohesion Meeting, which was attended by community representatives and organisations from across the Dudley borough	No further information			
Jun-Sept 2010 the project leads undertook extensive development work to shape the project to meet the needs, interests and logistical requirements of the recruited participating groups	No further information			
Phase 2: Creative participatory arts process				
The <i>Principal Arts and Health Officer</i> managed and led a team of <i>6 freelance artists</i> . Planning meetings were held with each artist and, where logistically possible, the artists met with <i>community representatives</i> to share their ideas for the creative delivery	Details below			
Before the workshops began the artists, community representatives and <i>interpreters</i> supporting the sessions attended a training and briefing session led by the <i>Cancer Health Improvement Coordinator</i>	Details below			
Weekly workshops delivered between Sept-Dec 2010	5 workshops for 3hrs each to each community group			
A <i>documentation photographer</i> was contracted to attend each community group to capture the different art activities, and provide high quality images which could be included in the resources and the documentation book for the project	Details below			
Graphic designers were commissioned to help turn the ideas and art work	Details below			

Table 3: Resources per phase (all from Curno et al., 2012)



generated through the arts workshops into designs for the cancer awareness resources and consultations around these resources were delivered over 3 phases	
Following the consultation, further changes to the translated text in all three	Details below
languages were made by <i>the translation team</i> and <i>the graphic designers</i> . The	
final finished resources were then proof read by key community representatives	
Lunches	5 workshops
In these workshops art pieces were created, many of which provided images and	words which were
used to inform the content and design of the cancer awareness resources. These se	essions also included
a social element, often over lunch, which provided an important opportunity for p and share their stories	articipants to bond
Phase 3: Identifying the outcomes	
The CAM survey was completed with 59 participants (pre and post survey)	No further information
Audio CD in Urdu and Punjabi provided by Dudley PCT to listen to at home	No further
	information
<i>z-cards</i> and <i>fridge magnets</i> were produced	Details below
A project documentation book was produced to capture the key images,	No further
messages and story of the project	information
Phase 4: Sharing and celebrating	•
A celebration event at "The Venue" Dudley (June 15 th)	
Dudley PCT showcased the 'Life is Precious' project work at the Dudley 'Art	No further
Space, ' a new arts venue bringing free workshops and exhibitions for adults and	information
families into the heart of Brierley Hill town centre	
Phase 5: Building a legacy	1
Overall 80 community members were involved in the initial consultation	No further
meetings to discuss the role of Community Health Champions, 7 initial training	information
sessions were delivered, and 72 people have taken part in the Community	
Health Champions training sessions	
The Volunteer Coordinator has arranged 15 meetings and visits to Community	No further
Health Champions groups to support them to develop in this role, and 52	information
Community Health Champion badges were awarded at the Life is Precious	
Celebration Event, to those who have attended at least 2 Community Health Champion sessions	
54 Community Health Champions recruited	
54 community neutrin champions recruited	

As the project was divided into five phases, the costs per phase were broken down to make the calculations more explicit. The following sections present the costs per phase. These have been estimated by Optimity, wherever possible using information provided in the evaluation report. Where the evaluation report has not provided relevant information on staff costs, Optimity Advisors have made illustrative assumptions about the resources required. Standard sources have been used for unit costs to generate monetary values. A summary of total costs by phase is given in Table 13 below the tables setting out the detailed costings for each phase.



Phase 1 costs (estimated using information on inputs from Curno et al., 2012 and Optimity assumptions)

Table 4: Resources for phase 1²⁶

Input Value fro		Assumptions			Value
	the report	Person	Cost/hr*	Rate	
		hours			
		Staff			-
Representatives from	No further	32	£12.48	Local	£399
Dudley PCT and Walsall	information			government	
Creative Development				administrative	
Team				occupations	
Community	No further	10	£7.30	Other	£73
representatives	information			elementary	
				services	
				occupations	
				(not elsewhere	
				classified)	
Organisations from	No further	32	£15.03	Officers of	£481
across the Dudley	information			non-	
borough				governmental	
				organisations	
Other resources					
Room and catering	No further	NA	NA	Assumed at no	NA
	information			additional cost	
Total resource costs for phase 1					

*Mean hourly pay, Gross

Phase 2 costs (estimated using information on inputs from Curno et al., 2012 and Optimity assumptions)

Table 5: Workshop resource cost²⁷

Staff per workshop as per Curno et al., 2012	Cost/hr*	Hrs of activity
Workshop 1		
Principal Arts in Health Development Officer	£19.65	3
Cancer Health Improvement Coordinator (CHIC)**	£11.02	1.5
DJS Research*** Interviewer 1 (Market research interviewers)	£9.05	1.5
DJS Research*** Interviewer 2 (Market research interviewers)	£9.05	1.5

²⁶Office for National Statistics, 2014. ASHE. Table 14.5 – Occupation. <u>http://www.ons.gov.uk/ons/publications/re-reference-</u>

tables.html?edition=tcm%3A77-337425

²⁷Office for National Statistics, 2014. ASHE. Table 14.5 – Occupation. <u>http://www.ons.gov.uk/ons/publications/re-reference-</u>

tables.html?edition=tcm%3A77-337425



Centre Coordinator (assumed same as CHIC)	£11.02	1.5
Artist	£13.70	1.5
Total cost of workshop 1 – staff only	£140	
Workshop 2		
Healthy Communities Volunteer Coordinator	£11.02	3
Interpreter	£16.44	1.5
Centre Coordinator	£11.02	1.5
Artist	£13.70	1.5
Total cost of workshop 2 – staff only	£95	
Workshop 3		
Healthy Communities Volunteer Coordinator	£11.02	3
Interpreter	£16.44	1.5
Centre Coordinator (assumed same as CHIC)**	£11.02	1.5
Artist	£13.70	1.5
Documentary photographer	£13.60	1
Total cost of workshop 3 – staff only	£108	
Workshop 4		
Healthy Communities Volunteer Coordinator (assumed same as CHIC)	£11.02	3
Interpreter	£16.44	1.5
Principal Arts in Health Development Officer	£19.65	3
Cancer Health Improvement Coordinator (CHIC)**	£11.02	1.5
Documentary photographer	£13.60	1
Graphic designer	£13.69	1
Artist 1	£13.70	1.5
Artist 2	£13.70	1.5
Total cost of workshop 4 – staff only	£202	
Workshop 5	•	
Principal Arts in Health Development Officer	£19.65	3
Cancer Health Improvement Coordinator (CHIC)**	£11.02	2
Centre Coordinator (assumed same as CHIC)	£11.02	1.5
Interpreter	£16.44	1.5
Artists	£13.70	1.5
Documentary photographer	£13.60	1
Graphic designer	£13.69	1
DJS Research*** Interviewer 1 (Market research interviewers)	£9.05	1.5
DJS Research*** Interviewer 2 (Market research interviewers)	£9.05	1.5
Total cost of workshop 5 – staff only	£197	
Additional cost of graphic designers over 5 workshops per	£110 (assumed 8hrs at a cost of	
community group	£13.69 per hour)	
Total cost of 5 workshops per community group (sum of 5	£851	
workshops and additional graphic designer cost)	£170	
Average cost of workshop – staff only Total cost of 5 workshops for all community groups (6 groups)		
Total cost of 5 workshops for all community groups (6 groups)	£5,107	



Cost per participant

£48.18

*Mean hourly pay, Gross

**Assumed medical secretaries

***A market research company

Table 6: Other costs of workshops

Input	Notes	Value
Room hire – per workshop (VAT not	Assumed 25 people per	£138 ²⁸
specified, assumed that the rate is	room (staff and	
included in the price)	participants)	
Room hire per community group (5	Based on £138 per room	£690
workshops)		
Total room hire for 6 community	Based on £690 per	£3,450
groups for 5 workshops	community group	
Supplies per person	Based on average price	£10
	www.Amazon.co.uk	
Supplies for all participants	Based on 106 participants	£1,060
Lunch per person	Working lunch menu excl.	£6.65 ²⁹
	VAT	
Lunch per person	Including 20% VAT	£7.98
No. of people in 5 workshops in 6	Includes number of staff	298
community group	and participants	
Total cost of lunch for workshops	At cost £7.98	£2,378

Phase 3 costs (estimated using information on inputs from Curno et al., 2012 and Optimity assumptions)

Table 7: Resources for phase 3³⁰

Input	Value from	Assumption	Assumptions		
	the report	Man	Cost/hr*	Rate	
		hours			
		Staff			
Administration of the	No further	64	£11.02	Medical	£705
CAM survey,	information			secretaries	
SWEMWBS and other				(CHIC)	
tools					
Production of the audio	No further	64	£13.82	Average rate	£884
CD in Urdu and Punjabi	information			of CHIC and	
				interpreter	

²⁸ Premier Meetings. Premier Meetings London Euston. <u>https://www.premiermeetings.co.uk/venue/london-euston/10</u> [Accessed 13/04/2015]
 ²⁹ Premier Meetings. Meeting Room Working Lunch Sandwich Selection. <u>https://www.premiermeetings.co.uk/catering</u> [Accessed 13/04/2015]
 ³⁰Office for National Statistics, 2014. ASHE. Table 14.5 – Occupation. <u>http://www.ons.gov.uk/ons/publications/re-reference-tables.html?edition=tcm%3A77-337425</u>



CD production	No further information	NA	NA	NA	£510 (see Error! Reference source not found. for details)
Production of z-cards and fridge magnets	No further information	NA	NA	NA	£366 (see Error! Reference source not found Error! Reference source not found. for details)
A project documentation book	No further information	80	£11.02	Medical secretaries (CHIC)	£882
		Other reso	urces		
Room and catering	No further information	NA	NA	Assumed at no additional cost	NA
Total resource costs for	phase 3				£2,981
* Moon hourly poy Gro					

* Mean hourly pay, Gross

Table 8: Cost of fridge magnets (VAT exempt)

Input	Cost per unit ³¹	Units	Total cost	Notes		
Fridge magnets	£0.070	5,000	£351.50	We have made an assumption		
(40*50mm)	£0.148	1,000	£148.00	about the type and number of		
	£0.246	500	£123.00	fridge magnets		

Table9: Cost of z-cards (VAT exempt)

Input	Cost per unit ³²	Units	Total cost	Notes
Booklet (8 pages)	£0.137	5,000	£685.00	Cost assumed to be equal to
	£0.236	1,000	£236.00	cost of z-cards
	£0.364	500	£182.00	

It is assumed that in total 500 fridge magnets and 500 z-cards were produced following the workshops of 6 community group at a cost of £305 exclusive of VAT (phase 3).

Table 10: Total cost of fridge magnets and z-cards				
Input	Note	Value		

³¹My Fridge Magnets: <u>http://www.myfridgemagnets.co.uk/promotional-fridge-magnets-c6</u> (Accessed 23/12/2014) ³²Print Express: <u>http://www.printexpress.co.uk/colour-printing/booklets/42/2p-n-032/</u> (Accessed 23/12/2014)



Fridge magnets and z-cards	See Error! Reference source not found. & Error! Reference	£366 (inclusive of 20% VAT)
	source not found.	

Table 11: CD production

Input	No. of units	Cost	Source
CD replication	500	£425 (excl.	http://www.pure-music.co.uk/cd-replication-
		VAT)	short-run/ [Accessed 13/04/2015]
CD replication	500	£510 (incl.	Calculation
		20% VAT)	

Phase 4 costs (estimated using information on inputs from Curno et al., 2012 and Optimity assumptions)

Table 12: Resources for phase 4

Input	Value from the report	Assumption	Cost	Source
A celebration event at "The Venue" Dudley	No further information	Assumed to be attended by 150 people at a cost of £20 per head	£3,000	http://www.t- venue.com/index.php [Accessed 13/04/2015]
Life is Precious' project work at Dudley 'Art Space'	No further information	NA	Assumed at no additional information	NA
Total cost for phase 4				£3,000

Phase 5 costs

The average cost per Community Health Champion is assumed at $\pm 2,700^{33}$. The project recruited 54 Community Health Champions (total cost of $\pm 145,800$).

Table 13: Estimated total cost of Life is Precious	
Input	Value

³³NICE. Shared learning database.

http://www.nice.org.uk/proxy/?sourceurl=http://www.nice.org.uk/usingguidance/sharedlearningimplementingniceguidance/examplesofimplem entation/eximpresults.jsp?o=685 [Accessed 14/04/2015]



Phase 1 (estimated using information on inputs from Curno et al., 2012 and	£953
Optimity assumptions)	
Phase 2 (estimated using information on inputs from Curno et al., 2012 and	£10,935
Optimity assumptions)	
Phase 3 (estimated using information on inputs from Curno et al., 2012 and	£2,981
Optimity assumptions)	
Phase 4	£3,000
Total of 4 phases for all participants (Life is Precious)	£17,870
Total of 4 phases per participant	£169
Phase 5 (Community Health Champions) – based on the NICE shared learning	£145,800
database	
Total of 5 phases for all participants	£163,670
Total of 5 phases per participant (106 participants of Life is Precious)	£1,544

Connected Communities (C2) – Positively Local

Collaboration

Project description

Connecting Communities (C2) aims to generate pride in the community and is based on a theory of cocreation between residents and agencies. "The C2 model is a process of neighbourhood development that supports people in disadvantaged areas to champion their own agendas in partnership with agencies" (Gillespie et al., 2011)³⁴. It is argued that development by statutory agencies of positive relationships with residents is a key to real and lasting neighbourhood change. The programme was implemented in three areas: Dartmouth, Townstal estate; Falmouth, Beacon estate and Cornwall, Redruth estate.

Project delivery

C2 consists of seven steps. We summarise these steps below.

Step 1: Locate energy for change; it is important for those within or external to a given community who are concerned with mobilising the resources of the community and statutory agencies to effect change to identify the key residents with a commitment towards change. "These are not usually existing community activists. Existing activists often don't represent their neighbours and can even become obstacles to change" (Gillespie et al., 2011). It is also important to identify stakeholders from key agencies and include representatives from health, education, police and the local authority. In Townstal, the C2 process started with scoping visits to local Police and Communities Together (PACT) and town

³⁴Gillespie J, Hughes S, Duffy S, Glasby J, Needham C., 2011. Positively Local; C2 a model for community. University of Birmingham; Policy Paper 09.08.2011



council meetings. Key residents were identified at these meetings and further scoping visits made to using their local knowledge of community groups.

Step 2: Create vision; it is important to "..set out not to do too much, so as not to raise people's hopes" (Gillespie et al., 2011) and release capacity to create an environment for change. The vision could come from outside the community in question and can be supported by organisations such as the Health Empowerment Leverage Project (HELP) to raise the ambitions of the community for change. The notion of capacity building in communities where capacity is regarded as insufficient can be counterproductive in the sense that communities are viewed as disempowered. Rather, capacity release can be enabled by statutory agencies listening to communities.

Step 3: Listening to communities; it is important for statutory agencies and service providers to capture the concerns and issues of the community. In Townstal, a connecting workshop held at the local Children's Centre was attended by 18 representatives from Education, Police, Devon PCT, Housing, South Hams District Council, local councillors and the Children's Centre and three key residents. A listening event, where priorities for the community were established, was attended by over 50 residents and facilitated by 18 local service providers.

Step 4: Formalise the partnership; this allows the neighbourhood to apply for funding. The Townstal Community Partnership was established as a resident-led, multi-agency partnership and the first meeting was held in July 2009. Partners included Devon County Council, Housing Associations, Devon and Cornwall Police, head teachers, local councillors, other local community organisations and groups and local businesses.

Step 5: Sustain momentum; this step is crucial to consolidate "...forces into something capable of bringing about widespread and long-standing change" (Gillespie et al., 2011). In Townstal, it is reported that, once the public meetings had started and word had spread, more residents began to attend the meetings to tell the services what was happening and where improvements were required.

Step 6: Taking action; this is the stage where the actions which aim to have a long-term benefit should be undertaken. In Townstal, changes on small issues like litter bins, resident support for the Partnership grew and residents and agencies understood that they had a forum where they could make change happen.

Step 7: Continued trajectory of improvement; it is important to maintain and enhance improved changes. When it snowed in early 2010, residents came to the meeting of the Partnership to complain about the lack of provision for grit bins. As a result, the Highways' representative was contacted and it was agreed that Townstal would receive more grit bins.

Project outcomes



As noted above the project was implemented in three areas in the UK – Dartmouth, Falmouth and Cornwall. Some of the outcomes reported by the project evaluation are summarised below. The reported changes are identified as improvements for the estate in question. For example, the evaluation report states that the Beacon estate experienced "improvements in health, environment and educational outcomes between 1995 and 2000"

Health outcomes;

In Falmouth (Beacon estate), it was reported that, following the programme, a number of health indicators improved on the estate (although figures are not reported for the situation before as compared with after the programme). For example, it was reported that breast feeding rates have risen and postnatal depression rates fallen. In addition there was a decrease identified in the (overall) childhood accident rate and the provision of on site health advice at the health centre was cited as an example of an improvement in health outcomes. Further details are presented in the table of findings.

• Environmental outcomes;

There were some positive environmental outcomes on the Beacon estate following the C2 programme, such as an increase in loft insulation (349 properties), central gas heating installation (318 properties) and fuel saving estimated at £180,306. In addition, recycling increased, dog waste bins were installed and a Skateboard Park developed (all Beacon estate). Further details are presented in the table of findings.

• Educational outcomes;

The programme provided on-site training for tenants and residents. After school club, skills course and parent and toddler groups (Beacon estate) were identified as representing improvements in educational outcomes (although their activities have not been quantified). Further details are presented in the CCA section.

Additional outcomes.

The report presents decrease in fear of crime, as well as reduced crime and a decrease in unemployment. On the Townstal estate, for the first time, there was a dentist on the estate (one day a week). The Redruth estate developed a voluntary curfew.

Aspect of community engagement:

The project is a process of neighbourhood development and supports people in disadvantaged areas.

Type of community engagement – Collaboration:



This project was classified in this category due to the following characteristics: "The C2 model is a process of neighbourhood development that supports people in disadvantaged areas to champion their own agendas in partnership with agencies"³⁵.

Key findings

The table below presents key findings from the cost-consequence analysis, including a short description of the intervention, study outcomes as reported directly in the text (whereby green indicates a positive outcome; amber no difference or a non-statistically significant finding; and red indicates a negative outcome), as well as a description of consequences, and any financial consequences that could be calculated.

Table 14: Key findi	ngs	
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-			
Intervention	Gillespie J, Hughes S, Duffy S, Glasby J, Needham C., 2011. Positively Local; C2 a		
paper	model for community. University of Birmingham; Policy Paper 09.08.2011		
Intervention	Connecting Communities (C2) – Positively Local		
Study design	Case study		
	Theoretical approach: collaboration		
	Conducted in the UK		
	 Dartmouth, Townstal estate; 		
	• Falmouth, Beacon estate;		
	 Cornwall, Redruth estate. 		
	• Follow-up: 3-5 years (Beacon estate)		
Intervention	The C2 model is a process of neighbourhood development that supports people		
description	in disadvantaged areas to champion their own agendas in partnership with		
	agencies. This case study is based on the premise that developing positive		
	relationships with residents is the best way to effect real and lasting		
	neighbourhood change.		
Intervention cost	The average cost of a similar programme, the Health Empowerment Leverage		
	Project (HELP), that adopted the C2 method, was estimated at £72,750 per year		
	or ca. £15/person (2011 prices) ³⁶ . Despite the name, HELP can be regarded as a		
	collaborative project. Positively Local was chosen for this cost consequence		
	analysis because it was the subject of a case study undertaken to inform the		
	development of the guideline on community engagement. In addition, the		
	Positively Local report discusses the Townstal site to which the HELP report		
	specifically refers and presents a fuller set of consequences than the HELP		

³⁵Gillespie J, Hughes S, Duffy S, Glasby J, Needham C., 2011. Positively Local; C2 a model for community. University of Birmingham; Policy Paper 09.08.2011

³⁶Fisher B, Stuteley H, Chanan G, Hughes S, Miller C, Griffiths G. 2011. Empowering Communities for Health: Business Case and Practice Framework. 1-101 <u>http://www.healthempowerment.co.uk/wp-content/uploads/2012/11/DH report Nov 2011.pdf</u>



	report.
Study outcomes	Health outcomes (Beacon estate) as recorded in the evaluation report
(as per Gillespie	Increase in breast feeding rates by 50%
et al. 2011) –	Postnatal depression rates down by 70%
reported without	Childhood accident rate down by 50%
attribution	Reduced fear of crime
	Health centre providing on site health advice
	Sexual health service for young people
	Teenage pregnancy dropped to zero in 2004
	Unemployment dropped by 71%
	Environmental outcomes (Beacon estate)
	£2.2million granted by tenants and residents
	Gas central heating to 318 properties
	Loft insulation in 349 properties
	Fuel saving estimated at £180,306
	£160,000 traffic calming measures
	Provision of safe play areas
	Recycling and dog waste bins
	Skateboard park
	Educational outcomes (Beacon estate)
	On-site training for tenants and residents
	After school clubs
	Life skills courses
	Parent and toddler group
	100% improvement in boys SATS results
	IT skills
	Crèche supervisor training
	Other outcomes (Townstal estate)
	Crime fell within the first year of the partnerships (although a quantified
	estimate was not reported in Positively Local)
	Additional £45k generation towards refurbishment of a park; involved the school
	and local children in redesigning the park
	Lessons about community (sense of community)
	Services offering counselling, advice on housing etc. to young people
	New security entrances
	Litter pick days
	Employment of two caretakers to help with maintenance
	For the first time, an NHS dentist on estate once a week
	Pioneering voluntary curfew (Redruth estate)
Financial	As per Gillespie et al. (2011), it was suggested that postnatal depression has



		(
consequences	decreased following the implementation of C2. However, the implications of a		
	decrease in postnatal depression in terms of cost-savings are not presented.		
	Therefore, here we present some pote		
	change. One study has reported that, for		
	or units regarded as a pair ³⁷), the cost of		
	without post-natal depression was ~£527		
	health and social care costs for mother w		ression were higher
	by around £527 compared to mother with		
	Petrou et al. 2002 report that a decrea	•	
	changes in health care resource use. The		
	use between mothers with and without		-
	below. The positive numbers mean that		-
	without post-natal depression. The negat		that fewer services
	were used by mothers without post-natal		
	Resource	Difference	Unit cost [2013
		between	costs]
		service use	
	Mother: community care services	1	
	Midwifery contacts	0.3	£25/hr
	GP contacts	-2.37	£37 (11.7min 39)
	Practice nurse contacts	-0.15	£24/hr
	Practice counsellor contacts	-0.47	£28/hr
	Health visitor contacts	0.31	£77/hr
	Home help contacts	0.04	£14/hr
	Social worker contacts	-1.76	£31/hr
	Physiotherapist contacts	-0.85	£46/hr
	Community psychiatric nurse contacts	-1.74	£75/hr
	Community psychologist contacts	-0.62	£82/hr
	Other community mental health	-0.23	£79/hr
	contacts		
	Other community care contacts	-0.87	£54/hr
	Mother: day care services		
	Day hospital attendances	No difference	£28/attendance
	Community based day care attendances	0.13	£23/attendance
	Other day care attendances	0.08	£23/attendance
	Mother: hospital outpatient admissions	·	
L			

³⁷The Free Dictionary. <u>http://www.thefreedictionary.com/dyad</u> [Accessed 19/06/2015]

³⁸Petrou S, Cooper P, Murray L, Davidson LL. 2002. Economic costs of post-natal depression in a high-risk British cohort. British Journal of Psychiatry; 181: 505-512

³⁹PSSRU, 2013. <u>http://www.pagb.co.uk/media/facts.html</u>



Obstetric care attendances	-0.02	£70/attendance
A&E emergency care attendances	0.04	£81/attendance
Other outpatient attendances	-0.3	£237/attendance
Mother: hospital inpatient admissions (days)	
Maternity ward admissions	-0.26	£213/day
Mother & baby unit admissions	-0.1	£213/day
Medical/surgical ward admissions	0.04	£245/day
Other hospital inpatient admissions	0.02	£317/day
Infant: paediatric & child care services		
Day nursery attendances	-1.13	£27/attendance
GP contacts	-1.5	£37 (11.7min 40)
Community paediatrician contacts	0.01	£130/contact
Hospital paediatrician contacts	0.15	£130/contact
A&E care attendances	-0.2	£81/attendance
Special care baby unit admissions	-0.11	£737/day
Paediatric ward admissions	0.17	£374/day
Physiotherapist contact	0.19	£46/hr
Other paediatric & child care contacts	0.35	£63/hr
It was also reported by Gillespie at a	I. (2011) that child	hood accident rates
decreased, but no figures were reported	d. Therefore, here w	ve present childhood
accident care costs that can be potentia	lly ameliorated by C	2 programme. In the
literature, the accident cost is reporte	d to be between £	65 (No Investigation
with No Significant Treatment) to £3 Treatment) ⁴¹ .	42 (Any Investigation	on with Category 5
Gillespie et al. also report that the crime	e fell within the esta	te. However, the fall
rate/level or change or nature of the cr	ime is not presente	d, therefore it is not
possible to calculate the potential benef	its of crime decrease	e in monetary terms.
However, here we present average co	ost of crime to illu	strate the potential
benefits of C2 ⁴² :		
• Violence against the person - £19,00	00;	
• Wounding (serious and slight) - £18	,000;	
• Common assault - £540;		
• Sexual offences - £19,000;		
• Robbery/mugging - £4,700;		

⁴⁰PSSRU, 2013. <u>http://www.pagb.co.uk/media/facts.html</u>

⁴¹NHS Reference cost 2012-13. <u>https://www.gov.uk/government/publications/nhs-reference-costs-2012-to-2013</u>

⁴²Brand S, Price R., 2000. Home Office Research Study 2017. The economic and social costs of crime.

https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/191497/Green_book_supplementary_guidance_economic_soci al_costs_of_crime.pdf



	 Burglary in a dwelling - £2,300; Theft (not vehicle) - £340; Theft (of vehicle) - £890; Criminal damage - £510. It is also reported by Gillespie et al. (2011) that unemployment fell. The benefit
	of this could potentially be converted into increased production for the (unspecified) number no longer unemployed.
Descriptive consequences	 As noted before, following the implementation of C2, breastfeeding rates are reported to have increased. Breastfeeding has a number of potential benefits and here we present further potential outcomes of breastfeeding: Type 2 diabetes: a WHO met-analysis concluded that breastfeeding may have a protective effect against type 2 diabetes⁴³; Overweight-obesity: the WHO meta-analysis estimated a 10% decrease in overweight or obesity in children exposed to longer durations of breatsfeeding; Intelligence test:the WHO meta-analysis suggested that breastfeeding is associated with improved performance in intelligence tests in childhood and adolescence.

Leeds Gypsy and Traveller Exchange (GATE)

Empowerment

Project description

The Leeds Gypsy and Traveller Exchange (GATE) programme aims to improve the lives of Gypsies and Travellers in Leeds and West Yorkshire. GATE is a membership organisation although no fees are charged to the members of the Gypsy and Traveller communities it represents. The organisation was started by Gypsy and Irish Traveller people working with friends and colleagues from other communities to improve the quality of life of their families and communities⁴⁴. It has received funding from organisations such as the Joseph Rowntree Charitable Trust and Comic Relief, GATE has recruited staff who have worked with members on projects such as the West Yorkshire Gypsy and Traveller Accommodation Needs Assessment and a National Gypsy Health and Inclusion project which was jointly led by GATE and Friends Family and Travellers.

⁴³Horta BL, Victora CG. 2013. Long-term effects of breastfeeding; A systematic review. The World Health Organization.

http://apps.who.int/iris/bitstream/10665/79198/1/9789241505307_eng.pdf

⁴⁴ http://www.leedsgate.co.uk/home/about-leeds-gate/a-history-of-leeds-gate/



GATE undertakes frequent consultations and most of the members of its Executive Board are drawn from the Gypsy and Traveller community. GATE provides personal support and advocacy, including help with housing health needs and education and training. GATE has four main objectives:

- Accommodation provision;
- Improve health and wellbeing;
- Improve education, employment and financial inclusion;
- Increase citizenship and social inclusion.

In addition, GATE aims to achieve wider societal benefits for these communities. Staff recruited by GATE, such as an advocacy worker and youth inclusion co-ordinator work with Gypsies and Travellers, providing personal support, advocacy and representation to mainstream services . GATE also helps to raise awareness and knowledge about these communities. GATE's advocacy worker is sometimes supported by students on placement. While GATE workers are not necessarily part of the Gypsy and Traveller community, 75% of GATE's management committee members are Gypsies and Travellers⁴⁵. GATE aims "...to help Gypsies and Travellers help themselves, through building the community's capacity, skills and capabilities" (Bagley, 2014)⁴⁶.

Project delivery

The project work involves GATE staff and others (such as placement students) in providing advocacy and support services for Gypsies and Travellers. For example, GATE has agreed a negotiated stopping arrangement by which it is agreed with the local authorities that Gypsies and Travellers can remain at specified sites for a period of time. GATE helps with accommodation by liaising with local authorities on behalf of Travellers on access to funding, for example to enable adaptations to caravans for those in failing physical and mental health, and helps engagement with NHS services, for example by accompanying people to important appointments. Leeds GATE also represents Gypsies and Travellers at national forums led by the Department of Health, NHS England and the Department for Communities AND Local Government.

Project outcomes

GATE has four key areas of activity, with examples of some of the benefits identified in the evaluation report (Bagley, 2014)summarised below.

1. Improve accommodation;

GATE helped the community to liaise on funding for disabled facilities grants that allow disabled facilities to be developed (adaptations and extensions to caravans). In turn, this development allows disabled and elderly residents of gypsy and traveller sites to continue living at home and reduces the need for

 ⁴⁵ The Leeds GATE team is given at http://www.leedsgate.co.uk/home/the-leeds-gate-team/
 ⁴⁶Bagley A. 2014. Leeds Gate; Gypsy and Traveller Exchange. Service Evaluation Report



relocation. In addition, GATE helps to improve living conditions by providing advocacy and helping caravans to stay on the site permanently or temporarily. This in turn helps to avoid evictions and save eviction costs (Bagley, 2014).

2. Improve health;

GATE helps communities to engage with national health services. It was reported that GATE helped to get NHS podiatrist and palliative care visits to the site, as well as midwife visits to expectant mothers. It is also claimed, in the evaluation report, that the take up of immunisation generally has increased and that the initiative has helped Gypsies and Travellers to understand the importance of HPV vaccination. More details on health benefits are presented in the cost-consequence analysis section (Bagley, 2014).

3. Improve education and employment;

GATE helped to improve educational attainment for young people within the community and increase children's confidence and learning. The programme also delivered healthy eating and cooking courses. Further details on education and employment benefits are presented in the cost-consequence analysis section.

4. Social inclusion;

In partnership with other organisations, GATE helps to raise awareness and promote the inclusion of these communities into society. Further details on social inclusion benefits are presented in the cost-consequence analysis section.

Aspect of community engagement:

The project is aiming to improve quality of life of Gypsy and Traveller communities.

Type of community engagement – Empowerment:

This project was classified in this category due to the following characteristic: the majority of GATE's executive board are gypsies and travellers, in line with the concept of empowerment that the community has a lead role in designing the intervention.

Key findings

The table below presents key findings from the cost-consequence analysis, including a short description of the intervention, study outcomes as reported directly in the text (whereby green indicates a positive outcome; amber no difference or a non-statistically significant finding; and red indicates a negative outcome), as well as a description of consequences, and any financial consequences that could be calculated. As discussed above, outcomes in this example were all positive and so were shaded green as with the other case studies.

More detail on how these results were calculated is shown below this table.



N.B. The report by Bagley 2014 presents an evaluation of the GATE services. As a method for evaluation a number of tools were used. The evaluation presents the information from "...desktop analysis (from GATE's own reports and also external papers), discussions with staff and board members, including Gypsy and Traveller representatives, and interviews with third parties, conducted by telephone" ⁴⁷. No information on measurement scales or surveys used are presented.

Table 15: Key finding	js
Intervention	Bagley A. 2014. Leeds Gate; Gypsy and Traveller Exchange. Service Evaluation
paper	Report
Intervention	Leeds Gypsy and Traveller Exchange (GATE). GATE is a membership organisation
	whose Executive Board has majority membership from gypsies and travellers.
Study design	Case study
	Theoretical approach: empowerment
	Conducted in the UK
	 Leeds and West Yorkshire
Intervention	GATE aims to improve the quality of life of people in Gypsy and Traveller
description	communities.
	The key objectives include:
	1. Improving accommodation provision;
	2. Improving health and well-being;
	 Improving education, employment and financial inclusion; Increasing sitianship and social inclusion
Intervention cost	 Increasing citizenship and social inclusion. Cost per advocacy case* dealt with by GATE is £122. The figure is reported by
intervention cost	Real-Improvement 2015 report ⁴⁸ . The definition of advocacy case is presented at
	the end of this table
Study outcomes	Accommodation
as per Bagley	The interventions have been associated with impacts on a wide range of
2014 ⁴⁹	stakeholders, including:
	Gypsy and Traveller families;
	 Elderly residents in failing health and their families and friends;
	Leeds City Council;
	Local Authority Social Services;
	 Police.
	GATE helped to liaise on funding for Disabled Facilities Grants to adopt facilities
	for the disabled. The new facilities enabled residents to continue living at home.
	It is thought that residents:

⁴⁷Bagley A. 2014. Leeds Gate; Gypsy and Traveller Exchange. Service Evaluation Report

⁴⁸Real-Improvement. 2015. Leeds GATE. Advocacy Service Evaluation Report

⁴⁹Bagley A. 2014. Leeds Gate; Gypsy and Traveller Exchange. Service Evaluation Report



 Will be happier close to their families and friends; and
• Will remain part of the community;
he programme can help to avoid the high costs of residential and/or nursing nomes.
 GATE advocated "Negotiated Stopping" that allows temporary residence on the site until the caravan is offered a permanent site or moves on. As a result: Living conditions have improved; Access to healthcare and education/training has improved; Evictions have been avoided. "Eviction and clean-up costs, quoted as £
between 2003 and 2010, greatly reduced"50;
There were reduced issues due to unmanaged camps;Enables police to direct residents to established sites.
Health
 he interventions benefits a wider range of stakeholders, including: Patients and their families;
• Wider Gypsy and Traveller communities;
NHS and public health services;
 Services (no baseline data or a change in terms of numbers are presented): A midwife visits expectant mothers at the site; NHS podiatrist and palliative care visits to the site; Ad hoc health checks at the site; Immunisation take up has increased; Access to GP and secondary NHS services has improved according to the evaluation report, with GATE sometimes accompanying members hospital visits, midwife visits to and health checks taking place at Cotting Springs, and an increase in the take-up of immunisations; GATE played an important role in the development of Leeds Health Need Assessment (Leeds health equalities strategy) according to the evaluat report and has published a Health Needs Assessment⁵¹; GATE is promoting community members to help others to understand a access the healthcare services.
 According to the report by Bagley 2014, in particular: GATE helped patients to understand discharge arrangements and timportance of self-care; GATE helped patients' families to understand patients' health and supp needs;

⁵⁰Bagley A (2014). Leeds GATE Service Evaluation Report. Leeds: Real-Improvement

⁵¹ Leeds Gypsy and Traveller Community Health Needs Assessment. Leeds: Leeds GATE.



•
 According to the report by Bagley 2014 GATE helped Gypsies and Travellers in Leeds to understand the importance of HPV vaccination for cervical cancer by bringing people to awareness sessions run by community health workers. This enabled: Lifetime protection against cervical cancer caused by HPV for those girls receiving the vaccination; Increased awareness of cancer risks and promotion of better uptake of services generally; NHS and public health services to achieve health objectives and potentially helped to reduce future cancer care needs.
Education & employment
 The interventions benefits a wider range of stakeholders, including: Children and their families; Schools; Leeds City Council; Wider Gypsy and Traveller communities in Leeds; NHS and public health services.
 According to the report by Bagley 2014 GATE helped to improve attainment for young people. GATE helped parents to arrange access to education for their children who were bullied or poorly supported at school, In one case study of home schooling, the following benefits were identified in the evaluation report : Children's confidence and learning improved; There were reduced concerns about falling behind in education; GATE helped Leeds City Council to obtain statutory education for children at minimal cost; Reduced pressures from the need to control bullying and other potential conflicts (however, it could be argued that this also reduces diversity and understanding, helping to maintains the marginalisation of Gypsy and Traveller children).
 GATE, in partnership with Leeds Health Living Network, helped to deliver health eating and cooking courses. The course aimed to educate young people on the impacts of a healthy diet: GATE helped better understanding of healthy eating; GATE increased knowledge and learning of healthy recipes; GATE aimed to generate peer encouragement of healthy eating among gypsies and travellers; Consequently better health for the community and reduced health care burden**.



	Social inclusion		
	GATE aims to involve gypsies and travell	ers in social activities (e.g. elections).	
	 The interventions benefits a wider range gypsies and travellers; The general public. 	of stakeholders, including:	
	GATE, in partnership with the Traveller Movement helped gypsies and travellers to make representations to the Council to reduce antipathy against their community. It is anticipated that GATE can reduce the fear of antagonism and harassment for gypsies and travellers and enhance better understanding of this community group (anticipated outcomes).		
	GATE is also trying to raise awareness nationally and promote the inclusion of gypsies and travellers into society.		
	GATE helped to obtain a portakabin for the community that holds various events. This gives the community a place to meet (however, at present the spatis not well used).		
Financial	Health		
consequences	A report by Bagley (2013) presents an illustrative cost analysis of the way in which GATE services could facilitate improvements in health care for Gypsies and Travellers ⁵² . The analysis is performed to compare the costs of two alternative scenarios for the provision of care in dementia and bowel cancer. The scenarios are intended to provide examples of current practice versus improved practice that might be achieved through GATE services. "These scenarios are based on the real experience of Gypsy and Traveller families in this country. For each scenario there are two versions; the first is based on what currently tends to happen in practice; the second shows how this can be improved with greater knowledge and understanding on the part of health and social care professionals" (Bagley, 2013 p.3). The two scenarios are based on hypothetical depictions by the report's author of early interventions which, by recognising the cultural needs of Gypsies and Travellers, could potentially have benefits for the NHS. The assumptions around resource use and estimates of unit cost are set out in Bagley (2013).		
	Potential financial consequences are:		
	Dementia and Carer Stress/Depression		
	Pathway 1: Current Practice	Pathway 2: Improved Practice	

⁵²Bagley A. 2013. Leeds Gypsy and Traveller Exchange. "Gypsy and Traveller Health – Who pays?". Health Pathways: Cost-Benefits Analysis Report. Leeds: Leeds GATE. <u>http://www.leedsgate.co.uk/wp-content/uploads/2013/06/Cost-Benefit-Analysis-report-Gypsy-and-Traveller-Health-Pathways.pdf</u>



			
	Total financial cost: £20,298	Total financial cost: £8,884	
	Bowel Cancer		
	Pathway 1: Current Practice	Pathway 2: Improved Practice	
	Total financial cost: £ £22,956	Total financial cost: £4,058	
	Accommodation		
	Leeds City Council is estimated to be saving £200,000 per annum by implementing temporary sites for Gypsies and Travellers.		
	Leeds GATE is being promoting "negot	iated stopping site". Leeds City Council	
	estimated savings of £100,000 in clean-u	ip costs ⁵³ .	
Descriptive	Accommodation		
consequences	The programme can help to avoid the	high cost of residential and/or nursing	
	homes. It is estimated that the cost of re	sidential care per annum is £28,500 (per	
	person). If nursing care is necessary, the	e cost increases to £37,500 per year (per	
	person). The cost of nursing varies by region and the UK average is estimated at		
	£459 per week for residential care and £715 for nursing homes (per person) ⁵⁴ .		
	Health		
	Immunisation take up has increased as a result of GATE work, widening access to		
	commonly provided services (albeit implying an increased in demands on the		
	NHS). Vaccination enables "a rich,	multifaceted harvest for societies and	
	nations. Vaccination makes good economic sense, and meets the need to care		
	for the weakest members of societies" ⁵⁵ .		
	GATE helped Gypsies and Travellers in	Leeds to understand the importance of	
	HPV vaccination. Cervical cancer is the second most common cancer in women		
	under age 35. A vaccine used in NHS services "protects against the two types		
	of HPV that account for more than 70% of cervical cancers in the UK ⁵⁶ .		
	GATE helped with engagement with NHS services and midwife visits to expectant		
	mothers at the site were arranged, widening access to commonly provided		
	services (albeit implying an increased in demands on the NHS). This is		
	particularly beneficial as Gypsies and Travellers experience 3 times higher infant		
	particularly beneficial as Gypsies and Tra	avellers experience 3 times higher infant	

⁵³Leeds Gypsy and Travellers Exchange; Financial Statements; 30 November 2013

⁵⁴Paying For Care. Care home fees. Data from LaingBuisson. 2014. Care of Older People; UK Market Report; Twenty-Sixth Edition.

http://www.payingforcare.org/care-home-fees [Accessed 29/04/2015]

⁵⁵WHO. Andre FE, Booy R, Bock HL, Clemens J, Datta SK, John TJ, Lee BW, Lolekha S, Pelthola H, Ruff TA, Santosham M, Schmitt HJ. Bulleting of the World Health Organization. Vaccination greatly reduced disease, disability, death and inequality worldwide.

http://www.who.int/bulletin/volumes/86/2/07-040089/en/ [Accessed 29/04/2015]

⁵⁶NHS. NHS choices. HPV vaccine. <u>http://www.nhs.uk/conditions/vaccinations/pages/hpv-human-papillomavirus-vaccine.aspx</u> [Accessed 29/04/2015]

⁵⁷Irish Traveller Movement in Britain. 2012. The Health and Wellbeing of Gypsies and Travellers. An Irish Traveller Movement in Britain Briefing. <u>http://irishtraveller.org.uk/wp-content/uploads/2012/03/ITMB-Gypsy-and-Traveller-Health-Briefing-March-20122.pdf</u> [Accessed 29/04/2015]



	Education & employment
	GATE helped parents to arrange access to education. "Education can bring
	significant benefits to society, not only through higher employment
	opportunities and income but also via enhanced skills, improved social status
	and access to networks" ⁵⁸ . It has also been found that life expectancy is
	associated with education ⁵⁹ . The latter is especially important taking into
	account Gypsies and Travellers' life expectancy compared to the UK average of
	50 years and 78 years (Leeds) relatively ⁶⁰ .
	Social inclusion
	It is found that Gypsies and Travellers experience issues in relation to aspects of
	health, education, employment, lack of access to facilities and their "culture
	and identity receive little or no recognition, with consequent and considerable
	damage to their self-esteem" ⁶¹ .
Additional	Financial security
consequences	Leeds GATE and the Irish Traveller Movement in Britain (ITMB) held roundtable
	discussions to address concerns regarding the introduction of Universal Credit
	(UC) ⁶² .

*Advocacy is "...defined as speaking or writing in favour of, representing by argument or public recommendation..."⁶³ and is aiming at improving accommodation provision, improving health and wellbeing, improving education, employment and financial inclusion, and increasing citizenship and social inclusion. The corresponding cost per case delivered by Citizens Advice Bureau is estimated at

⁵⁸OECD. 2010. Education Indicators in Focus. <u>http://www.oecd.org/education/skills-beyond-school/EDIF%202013--N%C2%B010%20%28eng%29--</u> v9%20FINAL%20bis.pdf [Accessed 29/04/2015]

⁵⁹OECD. 2010. Education Indicators in Focus. <u>http://www.oecd.org/education/skills-beyond-school/EDIF%202013--N%C2%B010%20%28eng%29--</u> v9%20FINAL%20bis.pdf [Accessed 29/04/2015]

⁶⁰Irish Traveller Movement in Britain, Leeds Gate. 2013. Impact of universal credit and welfare reforms on the Gypsy and Traveller communities. A report by the Irish Traveller Movement in Britain and Leeds GATE. <u>http://irishtraveller.org.uk/wp-content/uploads/2013/05/Universal-Credit-and-Gypsies-and-Travellers-report.pdf</u> Data from: Baker, M., Leeds Racial Equality Council, 2005, Leeds Baseline Census 2004-2005, p. 10 <u>http://www.grtleeds.co.uk/information/census.html</u>

⁶¹Cemlyn S, Greenfields M, Burnett S, Matthews Z, Whitwell C. 2009. Inequalities experienced by Gypsy and Traveller communities: A review. Research report: 12.

http://www.equalityhumanrights.com/sites/default/files/documents/research/12inequalities experienced by gypsy and traveller communities a review.pdf [Accessed 29/04/2015]

⁶²Irish Traveller Movement in Britain, Leeds Gate. 2013. Impact of universal credit and welfare reforms on the Gypsy and Traveller communities. A report by the Irish Traveller Movement in Britain and Leeds GATE. <u>http://irishtraveller.org.uk/wp-content/uploads/2013/05/Universal-Credit-and-Gypsies-and-Travellers-report.pdf</u>

⁶³Real-Improvement. 2015. Leeds GATE. Advocacy Service Evaluation Report. Page 2



£73; however, volunteers in the latter do not undertake home visits⁶⁴. The Real-Improvement (2015) report estimates a cost per case dealt with by GATE's advocacy services of £122.

**"NB: These outcome are based on feedback from participants at the end of the course. There is limited evidence of the extent to which these healthy cooking and eating practices are sustained or spread across the community"⁶⁵.

⁶⁴Real-Improvement. 2015. Leeds GATE. Advocacy Service Evaluation Report
 ⁶⁵Bagley A. 2014. Leeds Gate; Gypsy and Traveller Exchange. Service Evaluation Report



3. Conclusions

The three case studies reported here have reported a range of benefits, including health benefits, from interventions of relatively low intervention cost (albeit on the basis of retrospective Estimates which may be incomplete in some aspects). Health effects reported range from improved cancer awareness and mental wellbeing (Life is Precious) to increased breastfeeding rates, reduced postnatal depression, reduced childhood accidents and fewer cases of asthma (Connecting Communities) to improved access to health services including increased uptake of interventions known to be cost effective (HPV vaccine – Leeds Gate). These impacts, together with intervention costs, could potentially be converted into QALYs and cost impacts to generate a cost-effectiveness ratio for which established benchmarks exist for judging whether an intervention is considered a good use of NHS funds (£20-30,000 per QALY gained). The findings of the Evaluation Reports, although they did not set out to investigate cost-effectiveness, suggest that these interventions could be cost-effective (or possibly cost saving). In selecting cost consequence analysis to report the results of these studies, the non-health benefits which have been reported are also captured.

Such a conclusion should, however, be treated with caution given the before and after design of the evaluations (rather than a controlled comparison). It is therefore difficult to assess to what extent the observed changes would have occurred in the absence of the intervention being investigated. An added difficulty of interpretation is that the reported results are not always specific about the time period over which changes are estimated to have occurred, the numbers who stand to benefit and the baseline from which changes have taken place. Moreover, any benefits attributed to the intervention may result from factors specific to a particular locality and may not be generalizable to other areas or settings. On the cost side, there are uncertainties such as incomplete knowledge about the resource requirements of the programmes.

It is therefore difficult to make general statements about the cost-effectiveness or otherwise of the programmes reported here (an issue which the Evaluation Reports did not seek to explore) and further research would be useful to quantify their costs as well as their health and wider societal benefits. Nevertheless, the Evaluation Reports and the evidence presented here provide an indication of the potential impacts of these programmes which local decision makers can use to inform investment decisions based on their own trade-offs between limited resources and benefits of various types.



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