Turner 2012 [26]

Methods	Setting: Two adjacent urban academic primary care practices with a
	low-income minority patient population in the US.
	Recruitment: Identified 9135 African-American patients from patient
	records aged $40 - 75$ years, with over two practice visits in 2
	consecutive years.
	Randomisation: RCT 2 arm.
	Definition of non-health care professionals: 'Peer-patients' (coaches
	with controlled hypertension) were identified from patient records
	by health care professionals who were: aged 50 – 75 years; had
	well-controlled hypertension; were good communicators; compliant
	to medical care and were judged to be 'empowered' to manage
	their condition.
	Peer training: Peer-patients were taught motivational interviewing
	skills from an experienced lead peer coach during two and a half
	face-to-face training sessions. Training content was developed by an
	African-American community advisory board to address barriers
	and facilitators to CHD risk reduction.
Participants	280 African-American patients with uncontrolled hypertension.
Interventions	Intervention: Three monthly calls from 11 trained peer-patients plus
	two practice staff visits (involving 3 members of staff; a medical
	assistant; practice nurse; and chronic disease health educator) to
	review a personalised 4-year heart disease risk calculator and view
	slide shows about heart disease risks. Peer callers addressed
	attitudes in line with the Theory of Planned Behaviour which
	involved using role modelling techniques and offering evidence-
	based advice.
	Caller: Peer-patients (coaches).
	Control group: Usual physician care and written healthy cooking advice via heart disease brochures.
Outcomes	Self management: None recorded.
	PROMS: None recorded.
	Clinical outcomes: 4-year CHD risk measure to assess risk of a
	primary or secondary CHD event; change in HbA1c level.
	Health utilisation: None recorded.
	Costs Name recorded

Costs: None recorded.

Walker 2011 [27]

Methods	Setting: Einstein Diabetes Research and Training Centre with access
	to a low income, insured (members of a union with a jointly
	sponsored health benefit plan), minority patient population in New
	York.
	Recruitment: Eligible patient participants identified through a
	database were telephoned and completed a screening measure.
	Potential participants were mailed an HBA1c blood test kit and
	enrolled if their result was ≥7.5% then randomised to either group.
	Randomisation: RCT 2 arm.
	Definition of non-health care professionals: No definition; non clinical
	'health educators' were used (no description of recruitment or
	numbers of health educators reported).
	Lay training: Trained and supervised by diabetes educator nurse.
Participants	526 Adult (≥ 30 years of age) members of the health care worker
	union fund in New York; read and spoke English or Spanish with no
	evidence of cognitive impairment; diabetes prescription of at least
	one oral glucose lowering agent in the year prior to enrolment;
	eligible A1c was 7.5% to provide a margin for lowering the HbA1c.
Interventions	Monthly calls for a year from health educator (length not reported).
	Calls were tailored to each patient and focused on diabetes
	medication adherence, making behavioural lifestyle changes through
	eating healthily and exercising. Telephone support manuals were
	used to guide conversations based on self-efficacy and
	empowerment and were informed by the Theory of Planned
	Behaviour. Also received high quality self-management printed
	materials by mail and prompted during telephone conversations to
	use these materials.
	Caller: Health educators.
	Control group: Self-management printed materials by mail.
Outcomes	Self management/ PROMS: Self-reported medication-taking; Self care
	medication adherence (medication possession ratio)
	Clinical outcomes: Change in HbA1c level.
	Health utilisation: None recorded.
	Costs: None recorded.

Heisler 2010 [32]

Methods	Setting: 2 Midwestern U.S. Department of Veterans Affairs.
	Recruitment: Recruited cohorts 45-66 years+ to facilitate group
	sessions and pair patients with an age-matched peer partner.
	Randomisation: RCT 2 arm
	Definition of non-health care professionals: 'Allows patients' to share experiences and receive reinforcement that is not available from time-pressed clinicians, and it may especially benefit patients who are tackling challenging medical tasks, such as insulin management'. Peer training: Peers attended a group session to set diabetes goals,
	receive peer communication skills training, and receive peer
	support from an age-matched 'peer partner'.
Participants	244 Patients with diabetes; Peers (n = 125); Nurse care management (n = 119).
Interventions	Peers were encouraged to talk weekly using a telephone that recorded call occurrence and provided reminders to initiate peer contact. Optional group peer-led sessions at 1, 3, and 6 months were available.
	Caller: Peer partners.
	Control group: Enhanced usual care consisting of an educational session and an assigned nurse care manager.
Outcomes	Mental health: Diabetes distress.
	Self management/ PROMS: Diabetes-specific social support, medication adherence.
	Clinical outcomes: HbA1c level.
	Health utilisation: Reviewed medical records to determine number of
	primary care and diabetes clinic visits.
	Costs: None recorded.

Dale 2009 [9]

М	etl	าก	ds

Setting: 43 General practices Warwickshire, Coventry, UK. Recruitment: Potential patient participants recruited from 3 general practice clinics; Diabetes Specialist Nurses (DSNs) recruited through DSN directory; Peers recruited through Warwick Diabetes Care User Group, plus email support group. Asked to give their experience on offering telephone advice, counselling and reasons for participating in the study. Engaged and interested participants were allocated roles and paid a small amount (not reported).

Randomisation: RCT 3 arm

Definition of non-health care professionals: 'Based on the concept of sharing mutual experience and experiential knowledge' benefiting the peer and the participant by increasing feelings of self worth and changes in self-management behaviour'.

Peer training: Peers attended a two day training programme developed for the study which focused on empowerment, motivational interviewing, active listening skills, and telephone role

Participants

231 Patients with diabetes; 9 Peers (males n = 4; females n = 5; age range 35 - 75 years; type 2 diabetes n = 6; 5 - 28 years duration of diabetes); 12 DSNs (all female; 35 – 63 years age range; 6 – 22 years diabetes nursing experience; type 2 diabetes n = 1).

Calls for up to 6 months. The first call was made 3-5 days later and at the following days: 7-10, 14-18, 28-35, 56-70, 120-150. More intense reinforcement of behaviour change occurred during the early weeks following initiation. The frequency of calls was intended to be tailored to patients' individual needs and callers were taught to negotiate the time of subsequent contact as part of the closure of each call.

Caller: Made telephone calls from a confidential space in the workplace or home. Invited to share challenging cases at 6 month review meetings.

Control group: Patients were informed that they were allocated to the routine care group; Received a single call from a researcher at day 3 - 5; Encouraged to follow the advice of GP or practice nurse.

Mental health: Diabetes distress.

Self-management/ PROMS: Diabetes self care activities; Adherence to

treatment; Diabetes Management Self-Efficacy; Perceived

therapeutic efficacy.

Clinical outcomes: HbAIc level. Health Utilisation: None recorded. Cost effectiveness: None recorded.

Interventions

Outcomes

Samuel-Hodge et al 2009 [31]

Methods

Setting: 24 African American churches in central North Carolina. Recruitment: 300 Churches identified from: an existing project database used in another study; community contacts and Chamber of Commerce resources. 118 Churches invited to participate. 8 – 20 Patient participants per church were identified by a church liaison who initiated recruitment through posters, pamphlets, and church announcements. Interested participants: called a free phone number at the research office; or sent an opt-in card to the research office; or spoke to a church liaison officer.

Randomisation: Cluster RCT 2 arm

Definition of non-health care professionals: Peer counselling was given via a 'Church Diabetes Advisor' (CDA) with type 2 diabetes or having lived with someone diagnosed with diabetes for at least 2

Training: CDAs were selected based on recommendations of the church and trained over a 1-month period – 4 weekly, 4 hour sessions – in the areas of motivational interviewing techniques, listening skills, diabetes self-management, and telephone counselling. 20 years or older; diagnosis of type 2 diabetes, clinical care provided by a primary care practitioner; plans to reside within 50 miles of church for I year; and telephone access.

Special Intervention (SI) involved I individual 60 minute counselling visit to a dietician to facilitate subsequent counselling by the CDAs and 12 bi-weekly group education sessions at each church (led by the dietician and assistance of a CDA), each lasting 90 - 120minutes, encouraging behaviour change and education. CDA delivered monthly telephone calls for I year to offer support for behaviour change to improve diabetes self-management.

Caller: Calls made by CDAs.

Control group: Minimal Intervention (MI) was a direct mailing of 2 pamphlets ("Healthy Eating" and "Staying Active") and 3 bimonthly newsletters, published by the American Diabetes Association, providing general health information and study updates.

Mental health: General health.

Self management/ PROMS: Amount of physical activity; Diabetes related knowledge; Diabetes-related health status; dietary intake. Clinical outcomes: Change in HbA1c level (determined by a finger

sample collected at participant's church).

Health utilisation: None recorded.

Costs: None recorded.

Participants

Interventions

Outcomes

Parry 2009 [33]

1 411 / 2007 [33]	
Methods	Setting: Single clinic in Toronto, Ontario, Canada.
	Recruitment: Peer volunteers were recruited during February and
	March 2006 via letters, advertisements in local newspapers and
	posters displayed at the local outpatient cardiac rehabilitation
	program. Peer volunteers were screened for their ability to engage
	in conversation; give information clearly; share experiences and display appropriate listening skills.
	Randomisation: RCT 2 arm.
	Definition of non-health care professionals: 'Peer volunteers have
	similar characteristics and possess specific knowledge that is
	concrete, pragmatic and derived from shared experiences'.
	Peer training: A 4 h training session to clarify and review content
	materials, develop skills required for effective telephone support; to
	understand when and how to facilitate appropriate referrals to
	health professionals; and demonstrate learning through role-playing.
	Support was initiated within 72 h of hospital discharge and support
	continued for a period of eight weeks. Peer volunteers also
	received a training manual intended to guide the training sessions
	and the intervention.
Participants	101 patients who had undergone CABG surgery; 14 peer providers,
•	I I were men, married, and all were retired.
Interventions	Provided calls for 8 weeks following hospital discharge. Peers used
	the usual care materials to focus their telephone conversations on
	pain management, exercise and motivation to attend a cardiac
	rehabilitation programme.
	Caller: Peer volunteers.
	Control group: Patients allocated to usual care received preoperative
	and postoperative education, and visits from in-hospital peer
	volunteers.
Outcomes	Mental health: Health related quality of life.
	Self-management/ PROMS: Pain and pain related interference with
	activities, and cardiac rehabilitation participation.
	Clinical outcomes: None recorded.
	Health utilisation: Feasibility measures including the Peer activity log,
	the Peer Recruitment and Training Evaluation Survey, and the Peer
	Support Evaluation Inventory.
	Costs: None recorded.

Batik 2008 [29]

Methods	Setting: Two community clinics in the Southeast Seattle; the
	neighbourhood senior centre; a community social services provider;
	and a Health Promotion Research Centre.
	Recruitment: Staff of the neighbourhood senior centre recruited 'lay'
	telephone volunteers, from 'active older adults' already engaged in
	senior centre programs. Primary skills sought in a lay coordinator
	were: an ability to communicate effectively; a genuine interest in
	working with older adults; experience in engaging and motivating
	volunteers; and a personal commitment to being physically active.
	Primary care providers approached potential participants during
	consultations and measured their physical activity level. Patients
	who expressed interest signed a consent form permitting the
	sharing of their name, contact information, and exercise
	prescription with community partners. A referral was then faxed to
	the PALS project coordinator, who arranged an intake interview.
	Randomisation: RCT 2 arm
	Definition of non-health care professionals: Lay support was offered by
	training older volunteers to provide telephone support and was
	based on a behavioural self-efficacy programme.
	Training: Training for telephone volunteers was conducted by Active
	Choices staff who consulted a validated peer support programme -
	the Physical Activity Intervention (PALS).
Participants	14 Patients with diabetes aged 65 years or older who had visited a
•	clinic within the previous 18 months and who had telephone access.
Interventions	Volunteers provided ongoing telephone support for 6 months. The
	frequency and number of calls is unclear. The content of calls
	involved focusing on increasing physical activity levels rather than
	on heart rate goals.
	Caller: Calls made by lay adult volunteers.
	Control group: Delayed PALS intervention 1 year on.
Outcomes	Self-management: Level of physical activity (No useable data
	reported). PROMS: None recorded.
	Clinical Outcomes: None recorded.
	Health Utilisation: Number of follow-up clinic visits (No useable data
	reported)
	Cost effectiveness: None recorded.

Carroll 2007 [30]

Methods	Setting: East and West coast of United States; 5 Academic medical
	centres. Recruitment: All participants recruited from cardiac rehabilitation programs; Peer advisors were older than 60 years, with a history of MI and CABS, had a successful completion of a cardiac rehabilitation program, and were actively participating in a healthy
	lifestyle. Randomisation: RCT 2 arm.
	Definition of non-health care professionals: Collaborative Peer Advisor and Advanced Practice Nurse Intervention based on self-efficacy and social support enhancement to improve the physical and mental health of participants.
	Peer training: Standardised training for peer advisors and close contact with practice nurses according to a validated peer training program involving elders with MI. Peer advisers were matched to patient participants in relation to age and gender.
Participants	247 Unpartnered (single, widowed divorced) adults; older than 65 years; post MI; able to speak English; and had access to a telephone. 45 Peer advisors trained; 2 advanced practice nurses were masters level students in cardiovascular nursing.
Interventions	Community based; home-visit within 72 hours; and telephone calls at 2, 6, and 10 weeks from an advanced practice nurse; and 12 weekly telephone calls from a peer advisor.
	Caller: Calls made by advanced practice nurse or peer advisor.
Outcomes	Control group: Usual care. Self management: Participation in cardiac rehabilitation.
• decomes	PROMS: None recorded (although mental health was described to be assessed in the introduction).
	Clinical outcomes: None recorded.
	Health utilisation: Participation in cardiac rehabilitation program and re-hospitalizations reported (based on patient self report). Costs: None recorded.

Young 2005 [34]

Methods	Setting: 25 General practices, Salford, UK.
	Recruitment: Call centre staff ('lay telecarers') recruited from the
	general public (with excellent telephone manner) who had:
	experience of working with the general public; word processing
	skills; and able to work early and late shifts.
	Randomisation: RCT 2-arm.
	Definition of non-health care professionals: Previously untrained 'lay
	telecarers' supported by a diabetes specialist nurse to help to
	improve glucose control by promoting lifestyle management.
	Training: 3 month training program comprising of: principles of
	managing diabetes; telephone motivational interviewing, including
	identifying health beliefs using the call centre technology.
Participants	591 Patients with diabetes; Specialist diabetes nurse; 2 Telecarers.
Interventions	Pro-Active Call Centre Treatment Support (PACCTS)
	interventions were outbound calls using call centre telephones
	(Cisco Systems equipment) and trained call centre staff to 'suppor
	and guide the patient as an individual toward achieving the best
	possible management of their diabetes'.
	Caller: 'Lay telecarers'.
	Control group: Lifestyle advice and drug treatment following local
	guidelines, including comprehensive annual review.
Outcomes	Self management: None recorded.
	PROMS: None recorded.
	Clinical outcomes: HbA1c levels.
	Health utilisation: Referrals from the telecarers, telephone
	consultations.
	Costs: None recorded.

Keyserling 2002 [28]

Methods	Setting: General practices, including 5 community health centres, a
	staff health maintenance organisation, and a general medicine clinic
	at an academic health centre, central North Carolina.
	Recruitment: Nutritionists and peer counsellors.
	Randomisation: RCT 3-arm.
	Definition of non-health care professionals: 'Peer counsellors'.
	Peer training: 4 Weekly, hourly sessions designed to promote
	readiness to change and diet behaviours and social support.
Participants	200 African American, older, lower income women with diabetes.
Interventions	Intervention A: Community and clinic component = 'A New Leaf
	Choices for Healthy Living with Diabetes' was based on behaviour
	change theory, promoting lifestyle and leisure-time activities, and
	consisting of 12 monthly telephone counselling calls and 1 group
	counselling session.
	Caller: Peer counsellors.
	Intervention B: Clinic only = 4 monthly visits with nutritionist to
	enhance physical activity and diet.
	Control group: Education pamphlets mailed to participants.
Outcomes	Mental health: Mental well-being.
	Self management: Physical activity; diet control of blood glucose.
	PROMS: Diabetes knowledge; diabetes specific health status;
	program acceptability.
	Clinical outcomes: None recorded.
	Health utilisation: None recorded.
	Costs: None recorded.