

Programme of work April 2007-March 2012

Version 4 - 25 January 2007

2	A) SUMMARY.....
3	B) THE RESEARCH PROPOSAL.....
3	B) 1. BACKGROUND.....
4	b) 1.1. Theme 1: The national smoking cessation picture.....
7	b) 1.2. Theme 2: Implementing the evidence base.....
8	b) 1.3. Theme 3: Developing and testing better interventions.....
10	b) 2. STUDIES.....
10	b) 2.1. Study group 1: The Smoking Toolkit Study (RW, JS, AM, SF, AB, DB).....
12	b) 2.2. Study group 2: Analysing data from and reporting findings from ongoing and existing datasets.....
15	b) 2.3. Study group 3: The Stop Smoking Clinic Research Network (AM, ML, JS, EV, DB, RW).....
18	b) 2.4. Study group 4: Evaluation of the 'quitline' (RW, JS, AM, SF, AB, DB).....
18	b) 2.5. Study group 5: Evaluation of Tabex (cytisine) as an aid to cessation (RW, JS).....
22	b) 2.6. Study group 6: Using activating-emotional processes to motivate smoking cessation (JS, JE, JS, EV, RW)
23	b) 2.7. Study group 7: A pilot study of the 'quitline' (RW, JS, AM, SF, AB, DB).....
25	B) 3. OVERVIEW.....
25	B) 4. GOVERNMENTATION AND

a) Summary

The aim of the programme is to produce findings that increase the rate at which smokers are successful in their attempts to stop and succeed in doing so, with the ultimate goal of reducing the harm caused by tobacco use. There are three themes to the proposed programme which are linked to seven groups of studies. The themes are: 1) collecting timely and accurate information on the national smoking cessation picture; 2) improving understanding of the process of smoking cessation; and 3) developing interventions to promote and aid cessation.

A rolling programme of household surveys and associated follow-up statistics on rates of attempts to stop smoking, use of aids in those attempts, 6-month continuous abstinence rates following those attempts and smoking behaviour will be developed. This will be supported by panels of smokers to take part in more detailed studies on the process of stopping and pilot interventions to promote and aid cessation.

2) Analysis of existing and ongoing data sets will be used to examine a range of issues including effectiveness of behavioural support, patterning of quit attempts, success rates of quit attempts, and short- and medium-term changes in physical health and mental health following smoking.

3) A range of quit smoking clinics with a combined annual throughput of more than 7000 clients will be used as a resource for establishing best practice in smoking cessation treatment. The focus here is on

improving access to smoking cessation services and on comparisons of different models of delivery.

4) Evaluation of the nicotine inhalor We have developed a novel nicotine delivery device that offers the convenience of obtaining relatively rapid nicotine infusions of different providers (e.g. pharmacists, practice

5) Evaluation of the nicotine inhalor We have developed a novel nicotine delivery device that offers the convenience of obtaining relatively rapid nicotine infusions

of different providers (e.g. pharmacists, practice

6) The process of change studies This is a series of studies involving an interview-based postal survey with follow-up and a series of experimental studies to test hypotheses

about the process of cessation, using a combination of qualitative and quantitative methods.

7) Activating emotional processes to motivate smoking cessation Funds will be sought to encourage smokers to ultrasound images of their carotid arteries.

In addition to the research studies, a major component of the programme

communication activities and policy development. This includes continued guidance and support to national and international agencies involved in tobacco cessation and undertaking major systematic reviews.

b) The research proposal

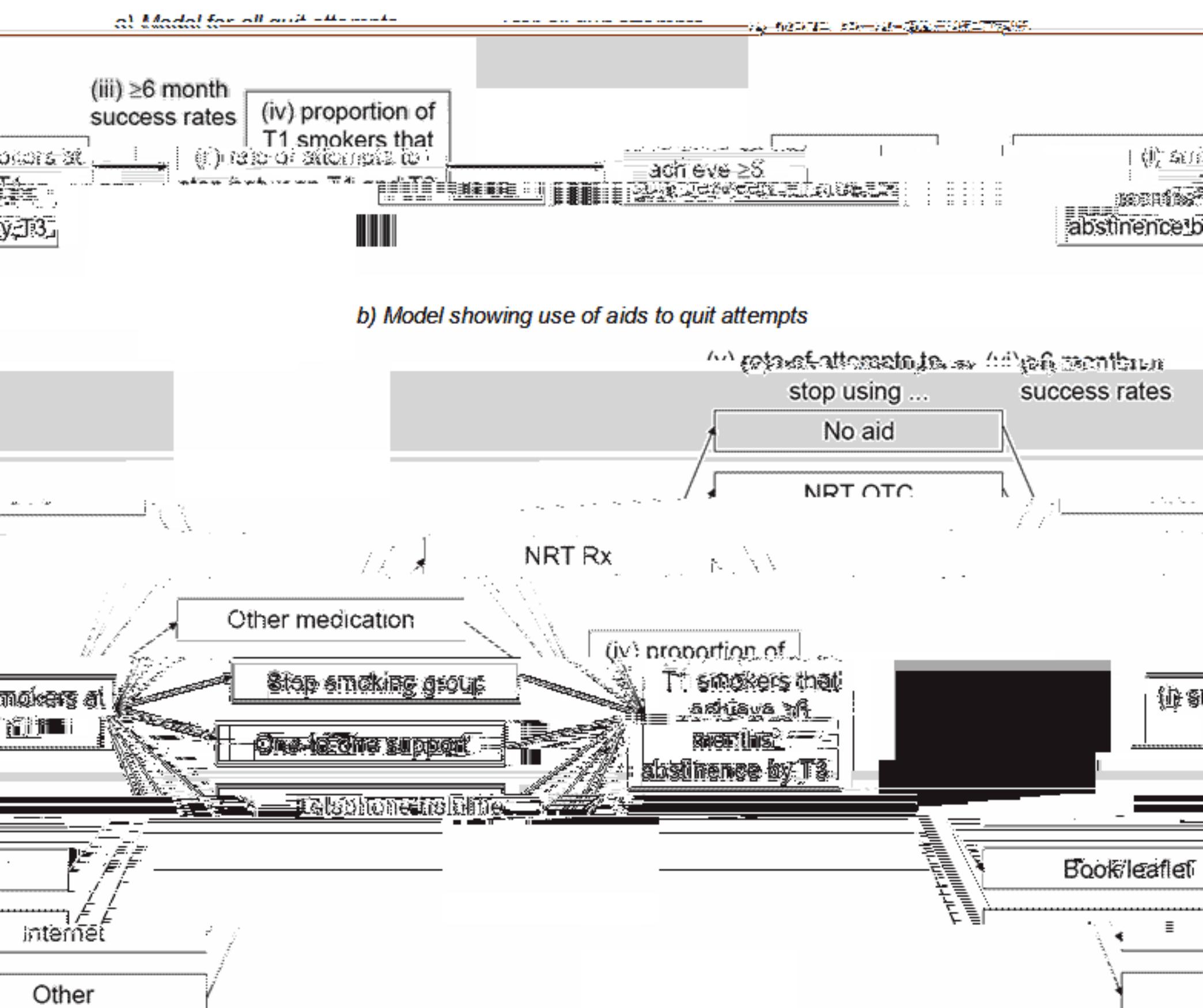
b) 1. Background

The overall aim of the programme is to produce research findings that will contribute to a reduction in tobacco-related harm through smoking cessation, first and foremost in the UK but also

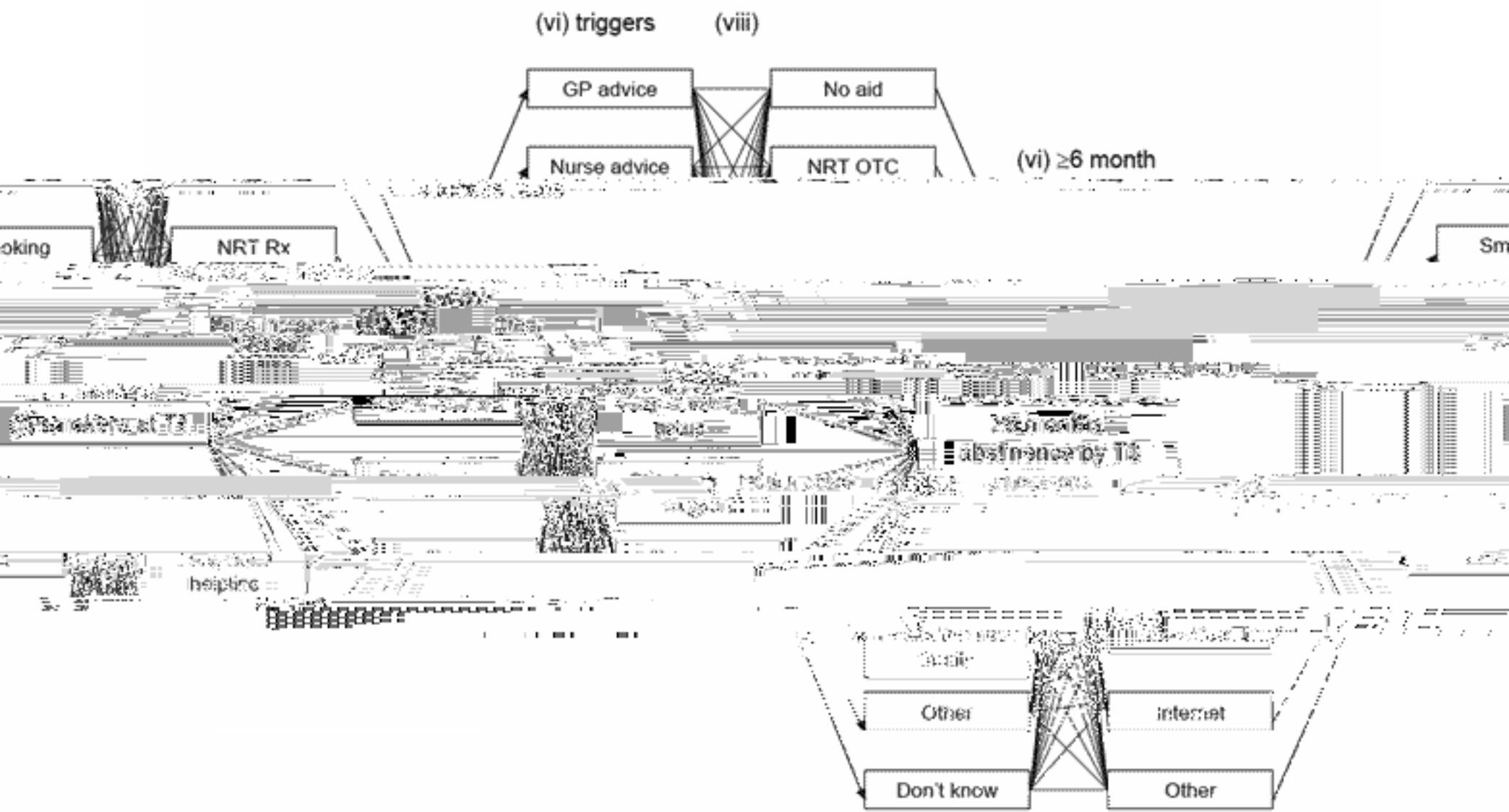
experience of the research team including members who are currently funded for specific projects

UK and overseas; 4) inform policy decisions, population level interventions and clinical practice (within 10 years); 5) be informed by, and contribute to, theoretical advances; 6) create synergy

Figure b) 1.1.1: A population model of smoking cessation (see text for explanation)



c) Model showing triggers and aids to quit attempts



¹⁰) Success rate for patients to start combination and/or maintenance therapy.

The name was originally given to the *Argus* by the ancient Greeks, who called the bird Argos, after the Argus, the son of Aegina.

figure that is widely used of success of unaided quit attempts is about 4%, lasting less than a month, according to the National Health Survey in the USA (CDC, 1990) and the UK (1973). Because quit attempts that fail are often very quick, forgotten, single surveys asking pack per day to make estimates is not appropriate.

Related to (iii) we currently have no adequate occupation-level data on the proportion who were smokers over these periods - we have a number of sources. These include:

travel at least 5 hours by air, and at least 5 hours by train (23). The Society of Virology will be the first to implement this policy.

c) Model showing triggers and aids to quit attempts

events that prompt quit attempts. Surveys ask about reasons for stopping smoking which is not the same thing (19). From a policy perspective it is important to be able to link quit attempts with events that determine whether and how far people believe they are having an influence. The investigation of triggers and the results suggest that studying triggers is feasible. It is also useful to be able to link triggers with the use of different aids to quitting and ultimately success rates. It is important to know, for example, whether quit attempts promoted by GP advice are more successful than those promoted by NRT or NHS Stop Smoking Services and whether they are more or less likely to involve other things being equal.

but also triggers
SSTP sought to
also useful to be
rates. It is impor
likely to involve
likely to be succe

res an understanding of the personal and social factors that contribute to smokers using different methods to stop and their likelihood of success in stopping.

support for smokers are
tribution that use of these
to collect such data (see

Interpreting the above figures requires an understanding of the personal and social factors that contribute to smokers using different methods to stop and their likelihood of success in stopping.

For example, smokers that are more willing to dependent on behaviour are less likely to be able to stop, this may lead to underestimation of the contribution that use of these methods makes to success of quit attempts (24). It is therefore essential to collect such data (see 25).

Ongoing studies relevant to these issues: The International Tobacco Control (ITC) cohort study (26) includes assessment of quit attempts and success rates but does not measure quit attempts in a 12-month period and the follow-ups are too infrequent to reduce recall bias when it comes to accurately assessing success rates. In addition, the ITC study, like the American Health Survey, interviewed a nationally representative cohort of smokers every 3 months for 2.5 years (27). The use of quarterly follow-up goes a long way to addressing problems of recall bias but the UK sample is too small to draw general conclusions from the results.

cigarettes per day who at baseline said that they intended to stop smoking in the next 3 months.

There are a number of studies overseas that seek to address this topic, most notably the US National Health Interview Survey (NHIS), which addresses directly if and why individuals have attempted to quit smoking in the past year.

Over 2000 (22, 23, 24) now account of results in each of them.

in regard to the
workers and gender
stratification (42-43).
Resistance to art
is reflected in the
conflict which the the-
atre and the like
put into action. A 2001

ports "suggests" that, "other things being equal, these
tting change than those that are planned in advance
antage of unplanned quits will become manifest to a
s evident (e.g., in the T-bill market). Taxation of
unplanned attempts
which requires imm

new identity as a non-smoker would be expected to play a greater role:

50% of smokers attempting to stop who have succeeded for one week label themselves non-smokers, and this measure correlates significantly with self-acceptance. The proportion that continues to smoke at this stage is the intention rate, and it is 10% higher than those who label themselves as smokers (and abstinence 14%). Theory predicts that the self-labelling is important and that this association will be maintained once other potential confounding factors are controlled.

According to HSM theory this is because smokers' responses to questions about quitting are heavily influenced by their desire to quit (HHS, 1994). The desire to quit is measured by rating of wanting to stop smoking (performed better than HSM "stage" (based on when smokers report intending to stop in the future) in predicting quitting (50). According to HSM theory this is because the responses to questions about future quitting do not reflect how most smokers actually think about this whereas smokers can readily answer a question about whether they want to quit (HHS, 1994). In contrast to HSM, the FSS does not measure smokers' desire to quit.

'Triggered' depends on factors that are difficult to predict, the 'frequency' of feelings of discomfort about current, inflexible eating styles will work. It contradicts the theory of those researchers who believe that the desire to quit smoking is triggered by situations involving smoking.

A fourth prediction concerns differentiation between 'urges' (feelings of wanting to do something) and 'impulses' (actions that individuals consciously experience). PRIME Theory argues that individuals experience urges when they exercise *voluntary* restraint over impulses. Work on the current programme is a first attempt to test this hypothesis (see Section A).

b) 1.3. Theme 3: Developing and testing better interventions

Developing improved methods to aid cessation: The top line of smoking cessation are summed up in Box b) 1.3.1.

Box b) 1.3.1

1. Randomised controlled trials have found that individual counselling help with stopping improves ability to sustain abstinence for at least 4% when delivered face to face and a similar amount when delivered arranged schedule by telephone – this is compared with minimal motivational session or written materials alone (52, 53). There is no evidence to determine whether one particular approach (e.g., motivational interviewing, behavioural therapy) is better than another or what are the factors that suggest that the effect of counselling is broadly additive to the

real-world application of behavioural support methods suggests that the benefits of behavioural support translate from the experimental trials into the routine clinical situation (54).

2. There is no evidence from randomised controlled trials indicating a greater range of abstinence than self-help groups (55).

3. There is no evidence that seeking help with stopping improves ability to remain abstinent for at least 6 months by an average 17% compared with placebo (56). There is evidence more strongly suggesting that using

so that best practice can be established and disseminated. Key areas of enquiry are: use of specialist staff to treat smokers versus practice nurses or pharmacists, group versus one-to-one appointment-based clinics.

b) 2. Studies

Shahab, JS; John Stapleton, AB; Andrew Bryant, AM; Andy McEwan, BSc; David Boniface, BSc

primary aim of the study is to provide
relating to smoking cessation to guide
toolkit for understanding the process of
GP advice and aids to cessation such
as nicotine replacement therapy,
provide national data on the
use of aids to cutting down.

The unique feature of the system is that it can attempt multiple triggers within a short space of time. This means that the system needs to be able to cater for multiple triggers. It also needs to be able to remember which triggers have been triggered and which ones have not.

draw participants for other studies in

I samples of smokers
followed up after 3

depending on funding
by the social research

Surveys will use the BMIRB omnibus

b) 2.4. Study group 1: The Smoking Toolkit Study (PTS)

Aims and justification

The background to the study is given in section b) 1.1. The ongoing, up-to-date national statistics on key parameters of policy and clinical practice. It will also provide a unique tool for smoking cessation and the role played by triggers such as social support in the 'real world'. Furthermore, it will inform harm reduction, specifically 'cutting down' and the

recognising that many smokers make multiple quit attempts and that unsuccessful quit attempts are often rapidly carried out frequently and to concentrate on a more limited time period for recall. In addition, the response format quit attempts and the possibility that different quit attempts involve different aids and possibly more than one type of aid.

the program

Methodology
This study involves repeated cross-sectional household surveys of national and recent ex-smokers for a period of 5 years with each cross-sectional sample size of 12,000 households (see Figure 1).

months and 6 months by postal questionnaire.

There will be between 4 and 12 household surveys per year (ideally 12 available) for 5 years, drawn using an established quota sampling method, comprising BMIRB. To keep the costs to a minimum the baseline survey

from each sample will agree to be followed up and complete the 3-month and 6-month postal questionnaires. Half of these will be asked to provide saliva samples and return these by post, giving 12 samples for the analysis. **Box 6.1** gives an outline of the protocol for the first 6 months. Thus, if its

proposed that the annual personnel will be
continually assessed; participants fee
500 and 1500 will provide complete

The household survey ... be any person aged 16 or above who has agreed to take part in the BMRB household survey. Appendix 2 shows the proposed base-line questionnaire. This has been pilot tested as a postal questionnaire and in May 2006 we commissioned BMRB to test it again as a household questionnaire in an omnibus survey exactly as it would be used in the full study. The key assessments for each participant at each household survey will be: 1) the number of serious quit attempts recalled as having been made within the last 3 months; 2) for each quit attempt made

whether or not it involved cutting down gradually, f) whether it was planned in advance; 3) current smoking behaviour (or past smoking behaviour in those that have recently stopped); 4) current (or

cash register close

sinetiner Fagerström Test for Nicotine Dependence (FNTND; 58) was used to measure dependence.

Household survey will be repeated

In the follow-up postal surveys the key assessments included:

any quit attempts that were ongoing at the time of the interview.

Saliva samples will be obtained by including a specimen tube and cotton postal questionnaire together with instructions on use (as in the SIPP).

Figure 6) 2.1.1.1. Timing of assessments (quarterly baseline assessments).



variables for each participant will be: 1) the annualised rate at which quit attempts occur; 2) the proportion of quit attempts that involve smoking just 30-60

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The key derived via
keygen must be used
in the following manner:

The analyses will focus on:

- providing accurate up-to-date information on smoking prevalence including all smoked tobacco (with incidence of smoking)
 - providing a series of annual updates on the key cessation parameters
 - assessing the effectiveness of interventions to cessation; comparisons testing different interventions, including smokers with ever used 0.5% cotinine intervals
 - stratified by socio-economic group, gender and age groups proportions of smokers
 - assessing various conditions
 - time series analyses to assess changes in each of the above parameters at whatever frequency they are assessed (quarterly, bimonthly or monthly) including seasonal trends, medications, price changes etc.
 - logistic regression analyses examining the association between use of specific aids and successful abstinence for different periods but primarily focusing on 6 months.
 - logistic regression analyses on 4 quit with adjustment for contextual variables and use of other aids
 - logistic regression analyses examining the association between use of specific aids and degree of addiction to cigarettes
 - construction annually of a full statistical model of the national smoking cessation picture
- Figure 2.1 1-year further model: year-on-year changes in the model**
- examining associations between smoking behaviour and degree of addiction to cigarettes amount they smoke and the proportion of these that report using NRT to help them do so
 - linear regression comparing smokers reporting versus not reporting cutting down; with or without NRT and saliva cotinine concentrations (logged)
 - logistic regression analyses to assess the association between cutting down, with or without NRT, and subsequent quit attempts in the next 6 months adjusting for other predictors of quit attempts; additional logistic regression analyses to assess the association between cutting down with or without NRT and subsequent quit attempts in the next 6 months adjusting for other predictors of success
 - correlations between quantitative measures of smoking and degree of addiction in continuing smokers at baseline, 3 months and 6 months (cigarettes per day, saliva cotinine- 3 month and 6 month only, FTND)

methodology has been pilot tested and there is a high degree of confidence that it will produce required data

a) findings from ongoing and

b) 2.2. Study group 2: Analysing data from and reporting

existing datasets

This involves using existing sets and ongoing data gathering exercises to answer key questions

b) 2.2.1. The ATTEMPT Cohort (JF, RW, LS) Aims and methodology

This data set (see earlier discussion) involved following a sample of smokers drawn from five countries: UK, USA, Canada, France and Spain. Data collection completed in late 2005 but with a dataset of this complexity and potential value, it will require a considerable research effort to address the range of key questions about smoking and smoking cessation patterns.

follow-up every 3 months for up to 2.5 years of a US, Canada, France and Spain. Data collection completed in late 2005 but with a dataset of this complexity and potential value, it will require a considerable research effort to address the range of key questions about smoking and smoking

period of the existing programme but will need to continue into the first year of the new programme

~~and possibly beyond. The proposed schedule of the first five waves arising from the cohort to be produced under the new programme is:~~

1) The role of acute and chronic illness in prompting quit attempts and their relationship to success of those attempts; 2) The role of body weight and concern about increases in body weight as a barrier of attempts to stop smoking and to long-term success; 3) The short-term and medium-term benefits to physical and mental health of stopping smoking; 4) Methods used by smokers to help them stop as a function of different smoker

over a 2-year period.

~~Modelling the temporal patterning of quit attempts and their success~~

~~and analysis~~

~~made available~~

~~was added to~~

~~the detailed methodology for the study is given in a press release (17)~~

~~findings from the first wave of the study that involved 2009 smokers in France,~~

~~France of whom 52% were followed up successfully for one year. Since then Spain~~

~~and Italy have joined the study~~

~~will be conducted in collaboration with RIIII~~

~~estimates of statistical power cannot be~~

~~calculated until the sample size is known, however, report, However, the~~

~~sample size would be sufficient to detect~~

~~a power of greater than 80% in most cases.~~

~~sample size would be sufficient to detect~~

~~a power of greater than 80% in most cases.~~

b) 2.2.7. Health Survey for England (JF, LS, RW, DB)

Aims and methodology

The HSE is a rolling survey of a large nationally representative sample in England that involves a

followed by a review and detailed assessment of each

participating household. This will then be evaluated by a

team, based in our department at JG, write a report of the top

best performer is required to analyse data to answer important

questions about the health of the population.

From 1990 onwards it has sought to collect saliva samples

from 1000 saliva cotinine values to produce definitive parameters of the distribution of cotinine

in smoking children and adults and smoking adults, stratified by age, socio-economic group,

and gender. This will allow us to monitor trends in smoking

and passive smoking. It will also provide a starting point for a

smoke exposure following introduction of the smoke-free legis-

lation in England.

Household Survey of a large sample of

households in England for the

obtained on subsamples. The SE

line results each year, but addi-

questionnaire, and a community

approach that data from surveys carried out

than 100,000 people in non-sm-

ing adults.

and passive smoking. It will also provide a starting point for a

smoke exposure following introduction of the smoke-free legis-

lation in England.

b) 2.2.8. International Tobacco Control (ITC) study (LS, RW)

Aims and methodology

The ITC is a large multi-national cohort stu-

the University of Waterloo. This ambitious

generate publications at a high rate (40+

relationships with policy initiatives but it al-

most certainly will not be able to do so.

McNeill, who is a collaborator on the proposed programme, is one of the UK leads on the project.

to 2000 smokers surveyed by telephone approximately annually. The UK contributes to funding of the

UK cohort. LS has formed a collaboration with this team and works with Dr McNeill and others in

evaluating whether the UK's national strategy of cessation services and reimbursement of smoking

cessation services in the UK is effective and beneficial to UK smokers than smokers in

USA, Canada and Australia. For the last wave of data, we would also be interested to

see whether there is any difference in cutting down to stop as opposed to complete cessation given

recent policy change with regard to NRT.

c) 2.2.9. Smoking cessation services (AM, LS, RW)

Aims and justification

The NHS stop smoking services provide

ways of implementing effective smoking

cessation services closely with the services since their insti-

bonds have been established. It is ap-

pealing when it comes to the effectiveness

of the services. However, it appears to have led to distortions in the

provision of stop smoking services.

It is extremely important to obtain high quality data to enable the Department to make

comparisons between different services.

However, the monitoring undertaken by the Depart-

ment is apparent that the calculations of success

not allow comparisons between the

success rates of different services.

make use of the innovation that exists within the services to establish what approaches work

than others in terms of attracting smokers into the services and attaining high quit rates.

We have established a network of clinics that are collecting data of sufficient quality

basis for establishing best

throughput of 7000 smokers. This constitutes a unique res-

programme). The network will also offer access to NHS Stop Smoking Service staff, whose knowledge and attitudes can be evaluated routinely and in response to specific interventions. Finally, the network will be a major tool for building research capacity within the N-S Stop Smoking Services. The website (www.scsrn.org) provides valuable resources for services wanting to undertake their own audits or research projects and these need to be updated regularly.

Methodology

The website is currently being hosted for free by Exchange Supplies
www.exchangesupplies.com

with whom AM has close ties

organising the UK National Smoking Cessation Conference and are happy to continue this relationship. However, the work involved in maintaining and developing the website and working with busy service managers to ensure that they make most effective use of it is more than can be

undertaken on present resources. This is a role that will be taken by other members of the research team, the programmer (ML) and the PA and HRRC administrator with supervision by AM.

that members can report findings and share experiences and resources. Studies proposed for the network include:

1. Comparison of long-term success rates as a function of interventions
 2. Comparison of 4-week success rates as a function of mode (one-to-one, practice nurse one-to-one, rolling group, fixed group)
 3. Comparison of retention and outcome as a function of stop-shop via a Patient Group Direction, prescription from a practice nurse or pharmacist
 4. Demand for, use of, and effectiveness of, different NRT products under different prescribing policy (e.g. with all NRT available on PGD or one purchased by the client separately).

tion of different relapse prevention

Mode of delivery (drop-in clinic, pharmacy and group etc.)

method of acquiring medication (one-GP direct supply etc.)

NRT combinations, as a function of NHS prescription or with one available

Primary care sources and their association

and success rates

and success rates.

or these studies will typically involve multiple random effects logistic regressions dependent variables entered together with measured confounders (including freeability and age) and with the stop smoking services as a random variable and where practice as another nested variable. These analyses will be complex and require

depends on the quality of data collection by the stop smoking undertaken work with these services to bring data collection up ing this liaison and training will represent a significant part of

Technical feasibility

The success of this series of studies services involved. AM has already u to the required standard and continu his workload in the early part of the n

b) 2.4. Study group 4: Evaluation of the Nicotine Cannon (AM, RW, JF, LS, EV, JS)

Aims and justification

We have been undertaking preliminary research with a novel nicotine delivery device that may help some smokers to stop more effectively than existing products. This is an area in which there is already a great deal of research and development (e.g., 88, 89). However, to date, no single form of currently believed that a device that could deliver abstinence in unselected smokers (58).

also be important...the ability of smokers to adjust on a moment-to-moment basis the delivery of nicotine and comfort attached to this. The Nicotine Cannon is a device that allows this to a greater degree than existing nicotine delivery systems. It involves cartridges arranged in parallel in a wide bore tube (the diameter of a cigarette) around a central delivery core. The user controls the concentration of nicotine covering the central core more or less with a finger.

It is suggested that it may be necessary to examine the

nicotine cravings more rapidly and completely than existing nicotine products.

user may need and to do so

in a timely manner.

Methodology

Three studies are planned:

1.01.2.4.1. Bioavailability study (Year 1). This study will be conducted in parallel with the pharmacokinetic study undertaken by the manufacturer. The study will be conducted in a double-blind, crossover design. The method below will be the same as has been adopted for the pharmacokinetic study undertaken by the manufacturer.

The methodology will be the same as has been adopted for the pharmacokinetic study undertaken by the manufacturer.

(given that smokers will be the ultimate users of the product and there is evidence that smoking

I also assess ratings of acceptability of the products, subjective effects and acute nicotine side-effects. Subjects will be asked to follow manufacturers' instructions for the same length of time (10 minutes). In the case subjects are instructed to take 10 puffs per minute. Blood will taken for at baseline, halfway through administration (5 minutes), and at 1, 5, 10, after administration of nicotine has ceased. In addition the subjects will rating scale on the presence of any of the following symptoms: nausea, throat irritation, dizziness, feelings unwell, pleasant feelings and agitation. These self-report ratings are made at the same intervals that blood is taken and are marked between 1 (none) and 10 (severe).

This study will also collect saliva samples according to the manufacturer. According to the manufacturer the subjects will measurement of nicotine: 15, 30 and 60 minutes after administration. The subjects will complete a 10-point rating scale on the presence of any of the following symptoms: nausea, throat irritation, dizziness, feelings unwell, pleasant feelings and agitation. These self-report ratings are made at the same intervals that blood is taken and are marked between 1 (none) and 10 (severe).

The study will also report secondary outcomes according to the WHO definition of health, including quality of life, acceptability of the products and income of the conductors.

effect of the nicotine cannon on abstinence (Years 3 to 5)

b) 2.4.3 RCT of

part of the IJPDG in this country. This will involve staff training in time, in evidence collection and preservation, doing an analysis and disseminating the findings.

Another factor is that manufacturers are not in a position to

search prove successful provides a safeguard

Methodology

The assessment. The course of where the trial will be carried out and 12-month medication is

and the experience of the new system. We've got to do more. The next step is to review our processes.

Studies comparing cessation medications are available but these can be ineffective as currently different dosing regimens are also likely to be required.

Technical feasibility

Technical feasibility
Extensive work has gone into studies in the programme depends on external funding, but given the research, there is considerable interest from a number of countries which may be secured.

1.2.6 Study groups: 6. The Passage of Għannejx studies (EV, JE, IS, GL, AM, DWA)

urges to smoke that come unexpectedly or when there is a crisis or situation normally associated with smoking; 4) Evidence of chronic or acute distress that depletes mental resources necessary for the exercise of self control, and the expectation of escape from which may make a resumption of smoking attractive; 5) Evidence of continued feelings of attraction to smoking; 6) Evidence of

“Juxtaposition of smoking and non-smoking areas (e.g. between 22% and 30%,³⁵) – interaction between individual social and physical environment is complicated by triggers, including other people smoking. This been an area that has been most studied to date and the importance of situational factors is well established (see e.g. 36).

The theory also suggests themes relevant to the relapse process. These include: 1) How far
participants move from a smoking decision to resumption, a thoughtless act or a temporary
exception to the rule of abstinence. Surprisingly we could find no
evidence. Preliminary analysis of this concept elicited in the co-investigator's
interviews to resume smoking are rare but current work on another study indicate

expectations'. This is an area that has also received little attention. There has been extensive research on the 'abstinence violation effect' in which a lapse creates dissonance and feelings of

3) Changes in identity in terms of recovery of smoking behaviour following lapses. The patterning of smoking behaviour following the lapse

3) Changes To Design

in terms of recovery of following lapses. The patterning of smoking behaviour following the lapse proposed a focus not only on rekindling of habit mechanisms and attack on self-control but also resumption of smoking etc.)

The four projects currently under way that will feed into the studies for the new programme are:

smoking urges (section 13(3)(f); the hypnotherapy pilot study

change would build on the findings from the work going on elsewhere on relapse (34-38, group, the studies will be informed by the of their motivation to smoke and not to smoke.

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Methodology

b) 2.6.1. Interviews with smokers and ex-smokers (Year 1)

The interviews will be undertaken using the stages of the PRIME model, and will involve a study and follow-up interview from 12 to 18 months after the initial interview. The interviews will involve a series of interviews with 100 smokers, and will take place at their homes or at the HBRQ. The interviews will be based largely by PRIME Theory. This attempts to determine for each person contributing to their ongoing behaviour and what they motivational assess individual the range.

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It does not seem appropriate to speak of a "grid" of responses, as this would suggest that the grid has been pre-determined by the researcher. The grid is better seen as a "matrix" of markers and not just interview responses. Indeed, it is an open question how far the grid can be populated using different methods.

This study will collect data on two, one, no, or a question about the range of responses rather than attempting to fit the motivational grid will be assessed.

Survey research to ensure that they capture the arrive at themes and the extent to which they fit with the overall research question.

Table 4.2.1.1.5. A model of smoking behaviour according to the SDT model

Theory	Factors that motivate smoking	General dispositions	Environmental factors	Smoking-related cognitions	Implementation
SDT	Self-determination theory	General dispositions	Environmental factors	Smoking or no/less smoking against self-control stop or avoidance of self-control	Proactive implementation
	castigate, failure to implement plans, e.g. initiative, motivation	space to develop plans	self-control (e.g. stopping aversive smoking behaviour)	resistiveness	de-inhibition
	smoking	e.g. presence of smoking 'modes'	e.g. disposition to copy smoking behaviour	patterns directly generating impulses	cue control
	incentives and rewards, e.g. learned triggers, e.g. strong want	e.g. learned triggers, e.g. strong want			
	internal forces (often driven)	control impulses			

questionnaire will be given to a sample of 500 smokers from the STS and use a fixed format version of the comprehensive motivational assessment grid to determine for each smoker their temporal profile of motivational tension regarding smoking... It...will...specifically...compare...the...

Methodology

Because this study focuses on the cardiovascular system, we are seeking funding from the BHF. The following sections outline the study design, protocol development and recruitment relating to the study. The study aims to include two groups. In the treatment group, smokers attending a designated GP practice will be provided with feedback of their cardiovascular risk using a computerised scanner and a smoking cessation intervention. Participants will be encouraged to quit smoking. In the control group, participants will also receive a standard cardiovascular risk assessment and be advised to quit smoking. The control group will also be advised to quit. Participants would be followed up 6 months after the intervention to ascertain biochemical validation smoking status, quit attempts and cessation behaviours.

Technical feasibility

The technical feasibility of this study depends on securing external funding and co-operation with general practices involved. BML has close links with local general practices so this is not a problem.

Method and a highly experienced researcher who works in a known cardiovascular research centre with extensive experience of the lasting motivational effect of these kinds of images using the kind of motivational grid described in section b) 2.6.

with extensive experience of the

b) 3. Overview

A summary of the key research questions is given in Box b) 3.

Box b) 3. Key research questions:

	and success of quit attempts? (Study 2.1F)	18. How
	does experience of illness influence quitting behaviour? (Study 2.1, Study 2.7)	11. What
	What are the short- and medium-term gains in physical and mental health associated with smoking cessation? (Study 2.1, Study 2.3)	smo
	What is the consistency of the experience of withdrawal symptoms over different quitting episodes? (Study 2.1, Study 2.5)	12. What
	What is the consistency of the experience of withdrawal symptoms over different quitting episodes? (Study 2.1, Study 2.5)	episodes? (Study 2.1, Study 2.5)
	What is the consistency of the experience of withdrawal symptoms over different quitting episodes? (Study 2.1, Study 2.5)	13. Does the UK's national strategy of providing free nicotine replacement medications result in different smokers in other countries such as the US and Canada? What are the most important cross-national differentials predicting cessation? (Study 2.1, Study 2.8)
	What is the consistency of the experience of withdrawal symptoms over different quitting episodes? (Study 2.1, Study 2.5)	14. How effective is nicotine nasal support? (Study 2.2)
	What is the consistency of the experience of withdrawal symptoms over different quitting episodes? (Study 2.1, Study 2.5)	15. To what extent do predictors of smoking cessation differ between smokers and non-smokers? (Study 2.3)
	What is the consistency of the experience of withdrawal symptoms over different quitting episodes? (Study 2.1, Study 2.5)	16. What is the best measure of addiction? (Study 2.3)?
	What is the consistency of the experience of withdrawal symptoms over different quitting episodes? (Study 2.1, Study 2.5)	17. Is there a difference in efficacy between nasal spray and patch? (Study 2.4)
	What is the consistency of the experience of withdrawal symptoms over different quitting episodes? (Study 2.1, Study 2.5)	18. Does pack-shape matter? (Study 2.4)
	What is the consistency of the experience of withdrawal symptoms over different quitting episodes? (Study 2.1, Study 2.5)	19. Do smokers who have never smoked before have a better prognosis after controlling for other predictors? (Study 2.5)

6. Continue as Assistant Editor, Addiction

John Stapleton:

1. Contributing to NICE guidance

Reviews
Guidelines

2. Contributing to Associate sys

3. Contributing to ASH working

4. Expert statistical advice for Addiction

5. Advising on Department of Health

b) 5. Building capacity

Smoking Cessation Service Research Network (SCORN): The SCORN will promote clinical good practice. The network will also nurture and support NHS Stop Smoking Services in collecting reliable data for research purposes.

Research UK (TRUIK): The team will also continue work that has been started on TRUIK, a network of tobacco researchers in the UK, and an associated website that aims to provide advice and resources. This project was started with initial funding of £100k of additional resources, preventing it from developing further.

Tobacco

This is a

programme built on

Post-doctoral researchers: This programme aims to create the next generation of world-class

Post-doctoral research

researchers with the new and the generation expertise with resources the next generation. LS and EV represent the following generation. We are fortunate in having attracted these researchers to the field and the next task is to retain them and develop their expertise.

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