

# Programme of work April 2007-March 2012

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## a) Summary

The aim of the programme is to produce findings that increase the rate at which smokers are motivated to try 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 and evaluating interventions to promote and aid cessation.

The seven groups of studies are:

- 1) *Smoking Toolkit Study (STS)* - a rolling programme of household surveys and associated follow-ups to provide vital national statistics on rates of attempts to stop smoking, use of aids in those attempts, 6-month continuous abstinence rates following those attempts, triggers of those attempts, and the impact of those attempts on the health and well-being of smokers.

2) *Analysis of existing and ongoing data sets* - a series of studies examining a range of issues including effectiveness of nicotine replacement therapy, the impact of behavioural support, patterning of quit attempts, success rates of quit attempts, and short- and medium-term changes in physical health and well-being in those who have stopped smoking.

3) *Development of a new nicotine replacement therapy (NRT) product* - a study of a new nasal spray without behavioural support as a function of past quit attempts, and mental health and healthcare costs.

4) *Investigation of the nicotine cessation kit* - a study of a new nicotine delivery device that offers the promise of obtaining relatively rapid nicotine withdrawal. The focus here is on high quality stop smoking clinics with a combined annual throughput of more than 7000 clients as a resource for establishing best practice in smoking cessation treatment. The focus here is on programmes undertaken according to a range of different models (e.g. rolling groups, drop-in centres, nurse-led, time-specialist).

5) *Investigation of the nicotine cessation kit* - a study of a new nicotine delivery device that offers the promise of obtaining relatively rapid nicotine withdrawal. The focus here is on high quality stop smoking clinics with a combined annual throughput of more than 7000 clients as a resource for establishing best practice in smoking cessation treatment. The focus here is on programmes undertaken according to a range of different models (e.g. rolling groups, drop-in centres, nurse-led, time-specialist).

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 change in smoking cessation. The focus here is on high quality stop smoking clinics with a combined annual throughput of more than 7000 clients as a resource for establishing best practice in smoking cessation treatment. The focus here is on programmes undertaken according to a range of different models (e.g. rolling groups, drop-in centres, nurse-led, time-specialist).

7) *Developing and evaluating interventions to promote and aid cessation* - a series of studies examining a range of issues including effectiveness of nicotine replacement therapy, the impact of behavioural support, patterning of quit attempts, success rates of quit attempts, and short- and medium-term changes in physical health and well-being in those who have stopped smoking.

8) *Investigation of the nicotine cessation kit* - a study of a new nicotine delivery device that offers the promise of obtaining relatively rapid nicotine withdrawal. The focus here is on high quality stop smoking clinics with a combined annual throughput of more than 7000 clients as a resource for establishing best practice in smoking cessation treatment. The focus here is on programmes undertaken according to a range of different models (e.g. rolling groups, drop-in centres, nurse-led, time-specialist).

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## 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

in other countries where tobacco-related harm is high, and where there are currently funded for specific projects

the experience of the research team including members with

UK and overseas, 4) Inform policy decisions, population level interventions and clinical practice

(beyond 10 years). 5) be informed by, and contribute to, theoretical advances, 6) create synergy,



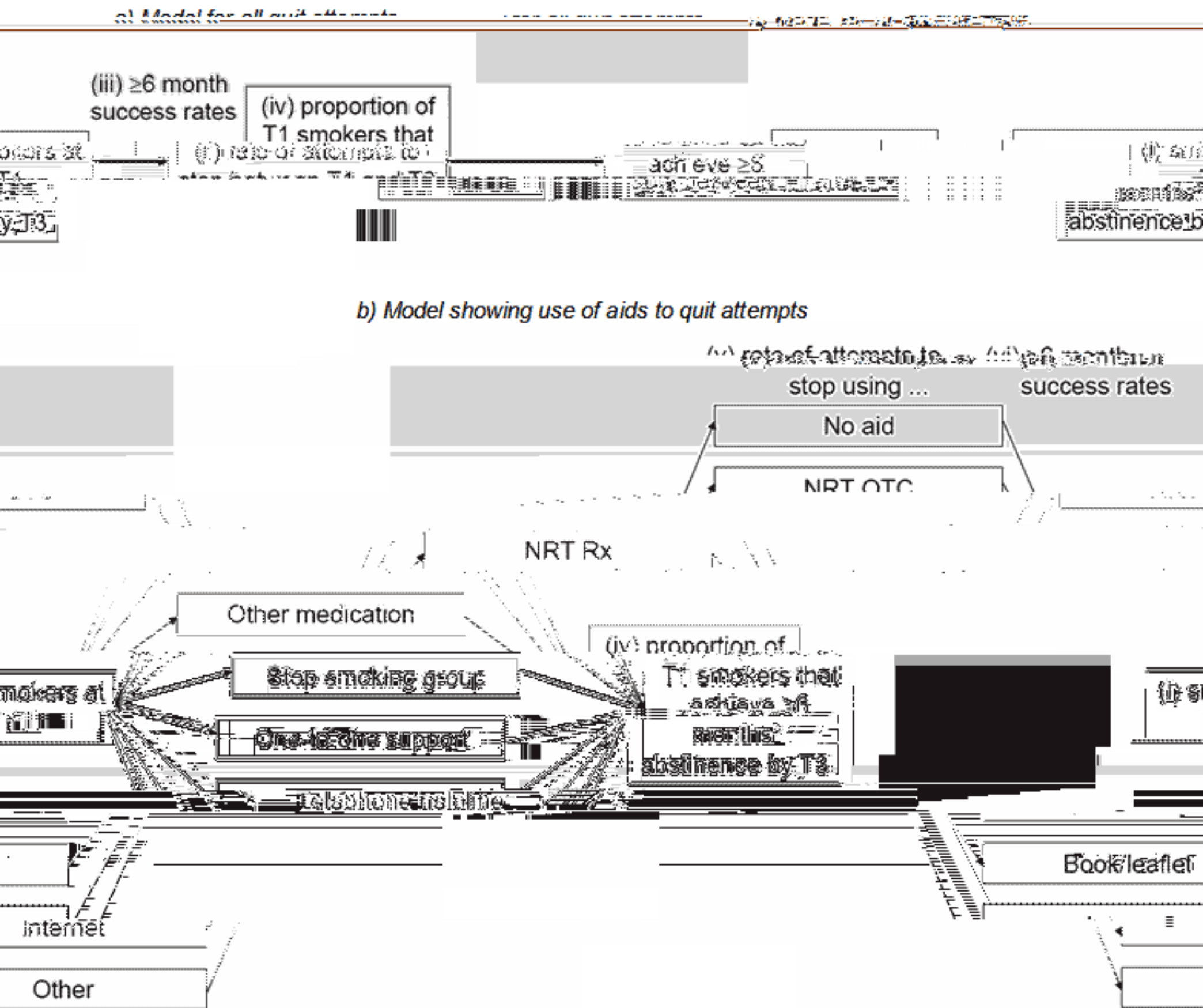
## 2. Obtaining a more detailed and accurate understanding of the process of stopping smoking to

improved clinical interventions. 3. Developing and evaluating im

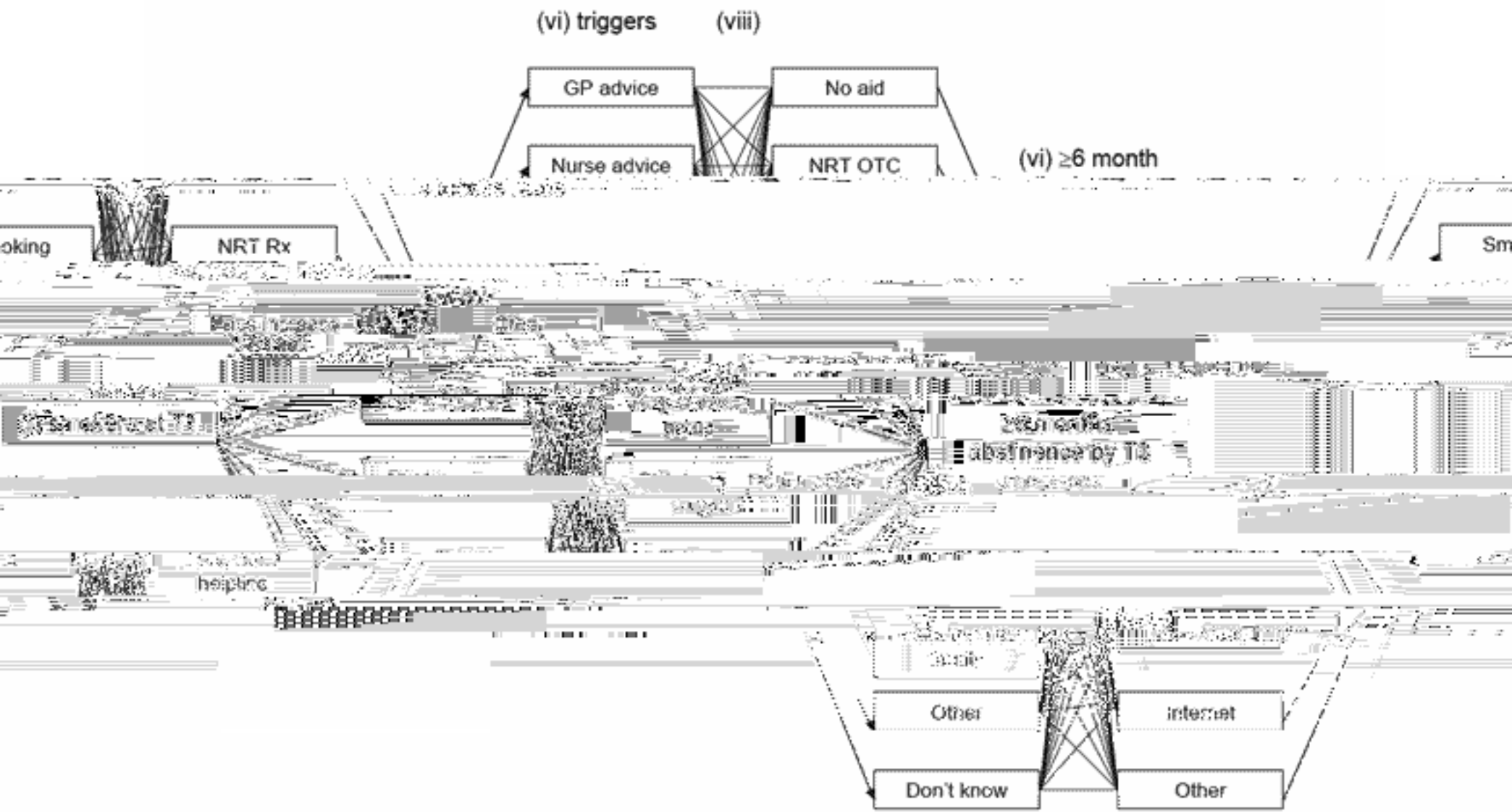
### b) 4.4. Theme 4: The national smoking cessation strategy

reduce smoking prevalence by increasing smoking cessation. Figure 1 maps out the current landscape of smoking cessation in the UK, and the need for better information on the process of stopping smoking. Figure 1a) refers to the proportion of long-term (e.g. 6-month) successes per quit attempt made in that period. (ii) refers to the proportion of the smokers at T1 that achieve long-term abstinence as defined. In Figure 1b) individual rates are specified for quit attempts using different aids (vi). Because a single quit attempt can use more than one aid, the use of different aids is fundamental to monitoring and maximise the use of the most effective aids associated with use of these different aids to quantify their role in creating long-term ex-smokers. Figure 1c) goes one step further and attempts to delineate the specific triggers (vii), and how far they generate quit attempts involving different aids (viii). For example, how far GP advice triggers quit attempts that involve use of medication? For the N-Stop Smoking Services. Currently we do not have these critical pieces of information for the population as a whole or for priority subpopulations. If accurate and up-to-date figures can be entered into such a model, it will be possible to

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



c) Model showing triggers and aids to quit attempts



**(iii) Success rate for 12-month abstinence in patients with a previous quit attempt**

The success rate for 12-month abstinence in patients with a previous quit attempt is about 4%. This figure is widely used, but the success of unaided quit attempts is about 4% (last in a series of 10 quit attempts). This is based on data from the 1990s, which is outdated for the UK (23). Because of the high failure rate, it is often very difficult to get a single survey asking back over 12 months to make estimates which are accurate.

Related to (ii) we currently have no adequate population level data on the proportion who were smokers, plus they were not aware of any quit aids. The number of people who were aware of any quit aids was 10% (23) and 10% of those who were aware of any quit aids were using any quit aids (23) and 10% of those who were aware of any quit aids were using any quit aids (23).

made at about 6 months ago (about 6 months (23)). This is clearly a variation with data from prospective studies and wholly unrealistic.



**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

to determine whether and how far to by involves the having of triggers. The investigate triggers and the results suggest that studying triggers is feasible. It is able to link triggers with the use of different aids to quitting and ultimately success tant to know, for example, whether quit attempts promoted by GP advice are more use of NRT or NHS Stop Smoking Services and whether they are more or less eepful, other things being equal.

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**Social and personal factors influencing**

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Interpreting the above figures require contribute to smokers using different

Supportive NRTs and are. For example, if smokers that are more nicotine dependent use behaviours tribution that use of these less likely to be able to stop. This may lead to underestimation of the con methods makes to success of quit attempts (24). It is therefore essential to collect such data (see 25).

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**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 take account of multiple quit attempts in a 12-month period and the follow-ups are too infrequent to overcome issues of recall bias when it comes to accurately assessing success rates. In addition the UK sample is too

small study, the cohort is relatively small and the follow-up is too infrequent to overcome issues of recall bias when it comes to accurately assessing success rates. In addition the UK sample is too

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regard to the  
kers and gender

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stance to anti-smoking campaigns (47) and failure of attempts to stop smoking

regarding setting smoking cessation goals (48) and (49). The role of identity in the theory is based on more detailed work (40)

the theory has a number of specific predictions about the success of otherwise effective interventions to promote cessation. Four of these are:

1. The theory predicts that the self-labeling of smokers as non-smokers will be associated with a greater success in achieving prolonged abstinence.

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cessation (42-43). – ewe\*, there are lessons that the pressures of a smoker's identity are

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### Developing and testing better interventions

**Methods to aid cessation:** The top line conclusions regarding aids to cessation are summarised in Box b) 1.3.1.

Research has found that individual counselling given to smokers seeking cessation improves their ability to sustain abstinence for at least 6 months by an average of 25% compared to face-to-face and a similar amount when delivered according to a pre-arranged schedule by telephone – this is compared with minimal support in the form of a brief written manual (52, 53). There is insufficient information to determine whether motivational interviewing or cognitive behavioural therapy are better than other methods. The evidence suggests that the active ingredients of these methods are additive to the effect of NRT. Evidence from

### b) 1.3. Theme 3: Developing improved methods to aid cessation

Developing improved methods to aid cessation are summarised in Box b) 1.3.1.

**Box b) 1.3.1**  
1. Randomised controlled trials have found that individual counselling given to smokers seeking cessation improves their ability to sustain abstinence for at least 6 months by an average of 25% compared to face-to-face and a similar amount when delivered according to a pre-arranged schedule by telephone – this is compared with minimal support in the form of a brief written manual (52, 53). There is insufficient information to determine whether motivational interviewing or cognitive behavioural therapy are better than other methods. The evidence suggests that the active ingredients of these methods are additive to the effect of NRT. Evidence from



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 of harm. While medication trials have indicated no adverse effects from a range of support options, a recent study of a behavioural support package for people with a history of substance use (55)

showing help with stopping improves ability to remain abstinent for at least 6 months by an average 4% compared with placebo (56). It has to be noted that this study was not designed to

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  
~~appoint-based clinics.~~  
appoint-based clinics.

## b) 2. Studies

Shahab, JS: John Stapleton, AB: Andrew Bryant, AM: Andy McLivermore, DB: David Boniface

Shahab, JS: John Stapleton, AB: Andrew Bryant, AM: Andy McLivermore, DB: David Boniface

JS, AM, AB, DB

### b) 2.1. Study group 1: The Smoking Toolkit Study (STS)

#### Aims and justification

The primary aim of the study is to provide evidence relating to smoking cessation to guide the development of a toolkit for understanding the process of smoking cessation, GP advice, and aids to cessation such as nicotine replacement therapy and behavioural support. In the real world, it will provide national data on smokers' attempts at harm reduction, specifically cutting down and the use of aids to cutting down.

The background to the study is given in section b) 1.1. The ongoing, up-to-date national statistics on key parameters relevant to policy and clinical practice. It will also provide a unique tool for understanding smoking cessation and the role played by triggers such as GP advice, and aids to cessation such as nicotine replacement therapy and behavioural support. In the real world, it will provide national data on smokers' attempts at harm reduction, specifically cutting down and the use of aids to cutting down.

The unique feature of the study involves recognising that many smokers make multiple quit attempts within a short space of time, and that unsuccessful quit attempts are often rapidly forgotten. This means that surveys need to be carried out frequently and to concentrate on a more limited time period for recall. In addition, the response format needs to be able to cater for multiple quit attempts and the possibility that different quit attempts involve different triggers, use different aids and possibly more than one type of aid.

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The STS is also planned to provide a panel from which to draw participants for other studies in the programme, including the process of change studies (see section b) 2.6).

#### Methodology

This study involves repeated cross-sectional household surveys of national samples of smokers and recent ex-smokers for a period of 5 years with each cross-sectional sample followed up after 3 months and 6 months by postal questionnaire.

There will be between 4 and 12 household surveys per year (ideally 12 depending on funding available) for 5 years drawn using an established quota sampling method by the social research company BMRB. To keep the costs to a minimum the baseline surveys will use the BMRB omnibus surveys, the regular series of surveys in the timing of assessments for the shorter follow-up surveys. The larger alternatives involve bimodal surveys.

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1. providing accurate up-to-date information on smoking prevalence including all smoked tobacco

with incidence of smoking; as well as cigarettes and including the 12-month, 3-month and 1-month

of FTA cessation; 2. providing an annual update on the key cessation parameters

of cessation, including the 12-month, 3-month and 1-month

of cessation, including the 12-month, 3-month and 1-month

of cessation, including the 12-month, 3-month and 1-month

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3. 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,

of cessation, including the 12-month, 3-month and 1-month

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5. random effects logistic regression analyses examining the association between use of specific aids and successful abstinence for different periods but primarily focusing on 6 months.

6. random effects logistic regression analyses as in 4 but with adjustment for contextual variables and use of other aids

of cessation, including the 12-month, 3-month and 1-month

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of cessation, including the 12-month, 3-month and 1-month



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 papers 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

in a general population. The modelled fit to the data from the study of 2009 smokers in the US, CA

made in France. Findings from the trial were of the study that included 2009 smokers in the US, CA

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

will be conducted in collaboration with R III. The proposed analyses are part of a planned sequence and will

estimates of statistical power cannot be. who were contracted to undertake the field work. Accurate

sample size would be sufficient to detect a power of greater than 80% in most cases.

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sample size would be sufficient to detect a power of greater than 80% in most cases.

Clinic that has been completed by JS. Subjects were followed up for 12 months. The issue of

practice and theoretical importance. As noted earlier, data to date sug-  
gest that combinations are  
-data in which the combination has been compared with both individual forms.  
addressed the issue. This trial was also designed to understand better the situation of  
it might respond best to two forms of NRT at opposite ends of the pharmacokinetic  
spectrum (patch with very slow release versus spray with rapid absorption). Direct com-  
parison of only two, one involved members of this team (58) and the other  
attempted to identify parameters that could help match smokers to treatments (72). This  
build on those findings. Many smoking characteristics were measured, including  
one sample before and immediately after smoking a cigarette, and a range of  
tolerance and dependence scales. Thus the study offers the opportunity to examine  
differences between smokers in terms of suitability for different forms of NRT.

#### Smoking Cessation Clinic Research Database (JS, JS, AM, RW)

since 1987, containing the full past treatment  
and containing various group treatment comparisons of different forms of NRT. The database  
is a smoking cessation research database for the UK. It contains data on smoking cessation  
and nicotine dependence. It also contains data on smoking cessation and nicotine dependence.  
It will also be possible to examine the  
group, including level of nicotine dependence and  
dependence. There are almost no data on either of these.

dependence, we found in the STP that smokers in the  
v in the FTND (see Appendix 1) but we could find no  
recent years DNA samples have been collected  
such database where full clinical and smoking  
forms to withdrawal symptoms, long and short and long-

#### Aims and methodology

The Maudsley database has been maintained by JS  
and contains data on smoking cessation and nicotine dependence. It will also be possible to examine the  
stability of key smoking characteristics and  
severity of withdrawal symptoms during abstinence.  
With regard to the stability of nicotine dependence,  
population showed a high degree of stability  
degree of stability but in small samples (73). In  
from those attending the clinic, providing the large  
test hypotheses regarding particular aspects  
term abstinence.

#### b) 2.2.6. The ZORN trial (JS, EV, RW)

##### Aims and methodology

This is an RCT comparing the effectiveness of nicotine replacement therapy versus bupropion  
versus a combination of the two as an aid to smoking cessation in the context of behavioural  
support provided by NHS Stop Smoking Services (see section A b) 1.). Support has been provided

benefit of these treatments will be completed by the end of the current programme but  
has been designed to answer further questions of fundamental importance in the  
established mental health services. The trial is a randomised controlled trial comparing  
treatments is an active area of study and some important findings are beginning  
functionality, as indicated by pretreatment 3-HC/cotinine ratio derived  
exciting finding that needs following up



### 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 household survey of a large sample of households followed by a nurse visit and detailed assessment of each household. The survey is conducted by the Health Survey for England team based in our department at UCL. The team is required to analyse data for a number of questions on smoking cessation. The HSE is a rolling survey of a large nationally representative sample in England that involves a household survey of a large sample of households followed by a nurse visit and detailed assessment of each household. The survey is conducted by the Health Survey for England team based in our department at UCL. The team is required to analyse data for a number of questions on smoking cessation. The HSE is a rolling survey of a large nationally representative sample in England that involves a household survey of a large sample of households followed by a nurse visit and detailed assessment of each household. The survey is conducted by the Health Survey for England team based in our department at UCL. The team is required to analyse data for a number of questions on smoking cessation.

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

#### Aims and methodology

The ITC is a large multi-national cohort study of smokers coordinated by Professor Geoff Fong at the University of Waterloo. This ambitious project has reached a stage where it has begun to generate publications at a high rate (40-75-85). The focus is very much on attitudes and their relation to smoking cessation. The UK cohort consists of 2000 smokers surveyed by telephone approximately annually. CRUK contributes to funding of the UK cohort. LS has formed a collaboration with the team and works with Dr McNeill and others in the UK's national strategy of cessation services and reimbursement of smoking cessation services. The UK cohort consists of 2000 smokers surveyed by telephone approximately annually. CRUK contributes to funding of the UK cohort. LS has formed a collaboration with the team and works with Dr McNeill and others in the UK's national strategy of cessation services and reimbursement of smoking cessation services. The UK cohort consists of 2000 smokers surveyed by telephone approximately annually. CRUK contributes to funding of the UK cohort. LS has formed a collaboration with the team and works with Dr McNeill and others in the UK's national strategy of cessation services and reimbursement of smoking cessation services.

#### Aims and justification

The NHS stop smoking services provide both a resource and ways of implementing effective smoking cessation interventions. AM and RW have been working closely with the services since their instigation providing training, support and advice and close monitoring. It is apparent that implementation issues are as important as efficacy when it comes to the effectiveness of the treatment. Recent policy initiatives appear to have led to distortions in the implementation of services with reports of some service providers providing a quality of care away from the provision of high quality services. The NHS stop smoking services provide both a resource and ways of implementing effective smoking cessation interventions. AM and RW have been working closely with the services since their instigation providing training, support and advice and close monitoring. It is apparent that implementation issues are as important as efficacy when it comes to the effectiveness of the treatment. Recent policy initiatives appear to have led to distortions in the implementation of services with reports of some service providers providing a quality of care away from the provision of high quality services.

We have established a network of clinics that are collecting data of sufficient quality to form a basis for establishing best practice. 60 primary care clinics have signed up to the combined annual throughput of 7000 smokers. This constitutes a unique resource to assess what constitutes best practice.



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 NHS Stop Smoking Services. The website ([www.scsrn.org](http://www.scsrn.org)) provides valuable resources for services wanting to undertake their own audits of research projects and these need to be updated regularly. It also provides a simple system whereby services can upload reports of different headings so that other services can see what has been done.

### Methodology

The website is currently being hosted for free by Exchange Supplies who are 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 (MJ) and the PA and HBRC 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 of delivery (drop-in clinic, pharmacy and group etc.)
3. Comparison of retention and outcome as a function of method of acquiring medication (one-stop GP, direct supply etc.)
4. Demand for, use of, and effectiveness of, different NRT combinations, as a function of NHS prescription or with one available
5. Methods used to increase referrals from GP and secondary care sources and their association with success rates.

For these studies will typically involve multiple random effects logistic regressions with dependent variables entered together with measured confounders (including free nicotine dependence 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

The analyses for these studies will be complex and require appropriate practical considerations.

depends on the quality of data collection by the stop smoking services. The work undertaken with these services to bring data collection up to the required standard and continuing this liaison and training will represent a significant part of the programme.

### Technical feasibility

The success of this series of studies will depend on the services involved. AM has already undertaken work to the required standard and continuing this workload in the early part of the programme.

## 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

device has been shown to be superior to existing products in terms of long-term abstinence in unselected smokers (58).

The use of delivery would represent an advance. However, we believe that another



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 five nicotine inhaler cartridges arranged in parallel in a wide bore tube (the diameter of a standard cigarette) around a central airway core. The user inhales the nicotine vapour through the mouthpiece (the device is held in the mouth like a finger) covering the central core more

completely than in a standard cigarette. The next steps are to examine the user may need and to do so in a laboratory setting using a standard cigarette and the Cannon. The study will also assess the

#### Metrology

Three studies are planned:

The method used will be the same as has been adopted for the pharmacokinetic studies undertaken

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

and acute This study will also assess ratings of acceptability of the products, subjective effects according to the manufacturers' instructions for the same length of time (10 minutes). In the case of the Cannon the subjects are instructed to take 10 puffs per minute. Blood will be taken for measurement of nicotine: at baseline, halfway through administration (5 minutes), and at 1, 5, 10, 15, 30 and 60 minutes after administration of nicotine has ceased. In addition the subjects will complete a 10-point rating scale on the presence of any of the following symptoms: nausea, throat irritation, dizziness, feeling 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 (extreme). The subjects will also complete a questionnaire on their use of the

variables. The secondary outcomes measures will be ratios of [redacted] period using baseline ratios as control. [redacted] acceptability of the products and usage of the products. [redacted]

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

**b) 2.4.3 RCT of [redacted]**



programme grant to support the involvement of the JDRF in this work. This will involve staff working full time, in leadership, coordination, and stakeholder relations, developing an analysis and disseminating the findings.

An investigation into the potential for a pilot trial in the UK is also being undertaken. The reason for this is that the manufacturers are not in a position to work with the research group and the funding is not available.

The programme of research provides a safeguard against profiteering should the programme of research prove successful.

### Methodology

The trial will be a randomised controlled trial. The course of follow-up using the Russell Standard outcome assessment as specified in the labeling for the drug in Poland where the trial will be carried out. The course of follow-up using the Russell Standard outcome assessment as specified in the labeling for the drug in Poland where the trial will be carried out.

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### Technical feasibility

Extensive work has gone into ensuring that the MRPI funded Tabex trial runs successfully. The feasibility of the remaining studies in the programme depends on external funding, but given the potential worldwide impact of this programme of research, there is considerable interest from a number of quarters and confidence is high that funding will be secured.

### 1.2.6 Study group 6: The Disease of Change studies (EV-15-16-AM-PMA)

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

social and physical environment is populated by triggers, including other people smoking. This has been an area that has been most studied to date and the importance of situational factors is established (see e.g. 36).

The theory also suggests themes relevant to the relapse process. These include: 1) How first lapses arise from a conscious decision to resume smoking in thoughtless or automatic decisions to make a temporary exception to the rule of abstinence. Surprisingly we could find no studies that examined this issue. Preliminary analysis of this concept related in the colleagues' work

indicates that conscious decisions to resume smoking are rare but current work on another study indicates that such a decision is often the primary factor in relapse. This needs to be studied in greater detail. This is an area that has also received little attention. There has been extensive experimental research on the 'abstinence violation effect' in which a lapse creates dissonance and feelings of

**3) Changes in identity** smoked the stress situation actually reduced the stress. Research in terms of recovery of following lapses. The patterning of smoking behaviour following the lapse. The PRIME Theory of abstinence or pattern of transition to regular smoking has been proposed. This proposes a focus not only on rekindling of habit mechanisms and effects on self efficacy but also on how a lapse affects the smoker's self identity (e.g. 'I am a smoker', 'I am a relapsed smoker etc.')

new programme are: The four projects currently under way that will feed into the studies for the next year are: a) a pilot study of hypnotherapy (section 6.3.2) and a study of being a smoker and not to smoke. The actual areas of research are smoking urges (section 6.3.2) and the impact of their motivation to smoke.

studies on process of change would build on the findings from the current work. The proposed series of studies will be informed by the current work. It will also build on the current work. It will be informed by the current work.

work will be based around a comprehensive assessment as proposed by PRIME Theory. This attempts to determine for each individual the range of motivational forces contributing to their ongoing behaviour and what they

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Theory

Factors that motivate	General dispositions	Environmental factors	Smoking-related	A
<p>inconsistent, failure to implement plans</p> <p>e.g. 'infinite' disposition</p> <p>reduced activity in inhibitory forces (often driven)</p>	<p>high effort/low space to develop plans</p> <p>e.g. presence of 'smoking modes'</p> <p>e.g. learned aggress control impulses</p>	<p>specific times stopping-aversive</p> <p>e.g. disposition to easy smoking behaviour</p> <p>e.g. strong past patterns directly generating impulses.</p>	<p>smoking or nicotine appeals to complete stop on success of attempts</p> <p>responses</p> <p>impulses and inhibi</p>	<p>proce imple d e inhibi cue d</p>

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 s

protocol development and reporting relating to the study. This study aims to r  
groups. In the treatment group, smokers attending a designated GP practice will be pro  
conducted. Degree of arterial stenosis will be measured using a validated

ity standards who will also deliver the intervention. During the scan, the results, which  
on a screen, will be explained to participants and compared with that of a non-smoker.  
participants will be provided with information regarding the link between arterial  
d smoking, an accompanying leaflet and a picture print-out of their own arterial scan.  
in the treatment group will also receive a standard cardiovascular risk assessment and  
uraged to quit smoking. In the control group, participants will also receive a standard  
the risk assessment but will not receive any biofeedback or leaflet. Smokers in

the control group will also be advised to quit. Participants would be followed up 6 month  
intervention to ascertain biochemically validated smoking status, quit attempts and

sation behaviours.

## Technical feasibility

Technical feasibility of this study depends on securing external funding and co-operation with

general practices involved. RML has also links with local general practices as this is not

method and a highly experienced ultrasonographer who works

with extensive experience of the

in undertake a more limited investigation with minimal supplier costs to explore in more detail the  
lasting motivational effect of these kinds of images using the kind of motivational grid described  
section b) 2.6.

### b) 3. Overview

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

### Box b) 3. Key research questions:







6. Continue as Assistant Editor, Addiction

John Stapleton:

1. Contributing to NICE guidance

Peer review  
papers

2. Contributing to guideline sys  
3. Contributing to ASH working

4. Expert statistical advice for Addiction

5. Advice on development of research

b) 5. Building capacity

Smoking Cessation Services Research Network (SCSRN): The SCSRN will conduct and

clinical good practice. The network will also nurture and support NHS Stop Smoking promote  
in collecting reliable data for research purposes. Services

Research UK (TRUK): The team will also continue work that has been started on TRUK Tobacco  
network of tobacco researchers in the UK and an associated website that aims to provide This is a

of these and resources. While progress has been made in the period of the staff increase ways of funding  
of these resources prevented. It is not clear how to develop further programme built on this

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

in addition, these researchers will be able to contribute to the generation of research on the most general  
ected these. LS and EV represent the following generation. We are fortunate in having attracted  
researchers to the field and the next task is to retain them and develop their expertise.

of these and resources. While progress has been made in the period of the staff increase ways of funding  
of these resources prevented. It is not clear how to develop further programme built on this









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