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Real-world uptake of a tailored, text message pregnancy smoking cessation programme (MiQuit) when offered online

Collaborators:

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Background



- Pregnant smokers a hard-to-reach group
 - low uptake of traditional NHS cessation support
- Mobile phone-based self-help may be promising for pregnant smokers (MiQuit)
 - appeal, wide reach, early evidence of efficacy
- BUT likely uptake in real world unknown

public health impact = efficacy X uptake

Need wide-ranging, low cost enrolment methods

MiQuit intervention



- 12 weeks of automated, pregnancy-specific, interactive support & advice by text message
- Sign up (activate the support) by texting a short code
- Tailored to user e.g. name, gestation, dependence, partner smoking, motivation
- Cost to deliver texts <£3



Previous uptake study settings

Clinical setting



Naughton, Cooper, Bowker, Campbell, Sutton, Leonardi-Bee, Sloan & Coleman (2012)



Hallsworth, Chadborn, Coleman, Cooper, Naughton & Magee (2014)

Online uptake



Is the internet a viable, cost-effective place to offer MiQuit?

Aims

Explore uptake of MiQuit by pregnant smokers (including cost) when offered online

Main outcomes

- Number of sign ups (activations), cost per sign-up
- Characteristics of those signing up
- MiQuit system usage (e.g. setting a quit date)

Where to reach pregnant smokers?

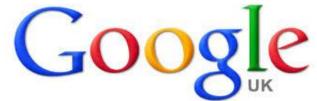
- 1. Google Adwords (paid advert)
- 2. Facebook Ads (paid advert)
- 3. Smoking in pregnancy webpages (free of charge, text-only link)
- NHS Choices & National Childbirth Trust

Clicking on advert / link takes user directly to MiQuit website for further information and short code to sign up











stop smoking pregnancy

Web Images News Videos Shopping More ▼ Search tools

About 5,810,000 results (0.42 seconds)

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Learn more Got it

Pregnant? Still Smoking? - MiQuit.co.uk

Ad www.miquit.co.uk/ ▼

NHS pregnancy stop smoking support. Free, personalised text messages. Free support by text · Personalised help & info · Direct to your mobile · Get a boost What is MiQuit? - What Support is Provided? - Sign Up

Stop smoking in pregnancy - NHS Choices

www.nhs.uk/conditions/**pregnancy**-and-baby/.../**smoking-pregnant**.aspx ▼
Find out why you should **stop smoking** in **pregnancy**, and how smoking can harm your unborn baby. Plus where to go for support to help you quit.

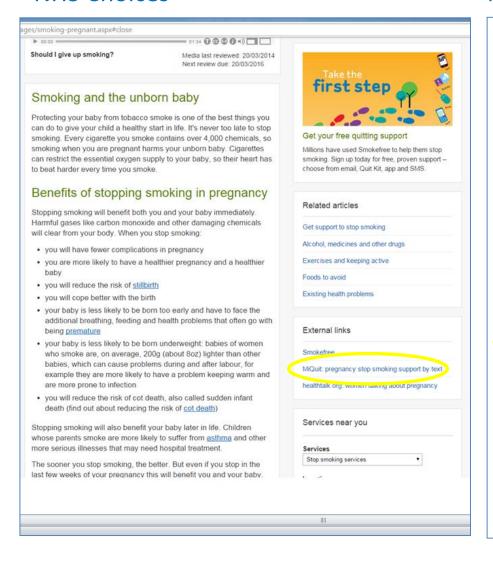
Your newborn - Getting pregnant - Pregnancy - Labour and birth



facebook

Free links on smoking in pregnancy pages

NHS Choices



National Childbirth Trust

- · you're more likely to have a healthier pregnancy and a healthier baby and have fewer complications in pregnancy
- · you are likely to cope better with the birth
- · you have a reduced risk of stillbirth
- · your baby may cope better with any birth complication
- . your baby is less likely to be born underweight and have problems keeping warm.
- your baby is less likely to be born too early and have the extra breathing, feeding and health problems which often go with prematurity.

The first few days without cigarettes may not be much fun, but the symptoms are a sign your body is starting to recover. You can think about the reasons you stopped, the money you're saving or how much you're helping your baby. Some women find looking at the picture of their baby on the scan or talking to their baby can help when going through tough times and withdrawal symptoms.

Secondhand smoke and pregnancy

If your partner or anyone else in your house smokes, their smoke can affect you and the baby both before and affer birth. You are also likely to find it's more difficult to quit. Secondhand smoke can cause low birth weight and cot death. Babies whose parents smoke are more likely to be admitted to hospital with respiratory infections such as bronchitis and pneumonia.

Further information

NCT's helpline offers practical and emotional support in all areas of pregnancy, birth and early parenthood: 0300 330 0700. We also offer antenatal courses which are a great way to find out more about birth, labour and life with a new baby.

Smokefree offers NHS information on smoking in pregnancy including a pregnancy object CNO cost calculators, by essbuster for the mindr and stress-buster for the body MP3 downloads and a Quit app to help with support and encouragement. There is also new NHS-funded support available through MiQuit - text message help with stopping amoking in pregnancy - which provides free and personalised advice, non-judgmental encouragement and information sent direction, and mobile phone.

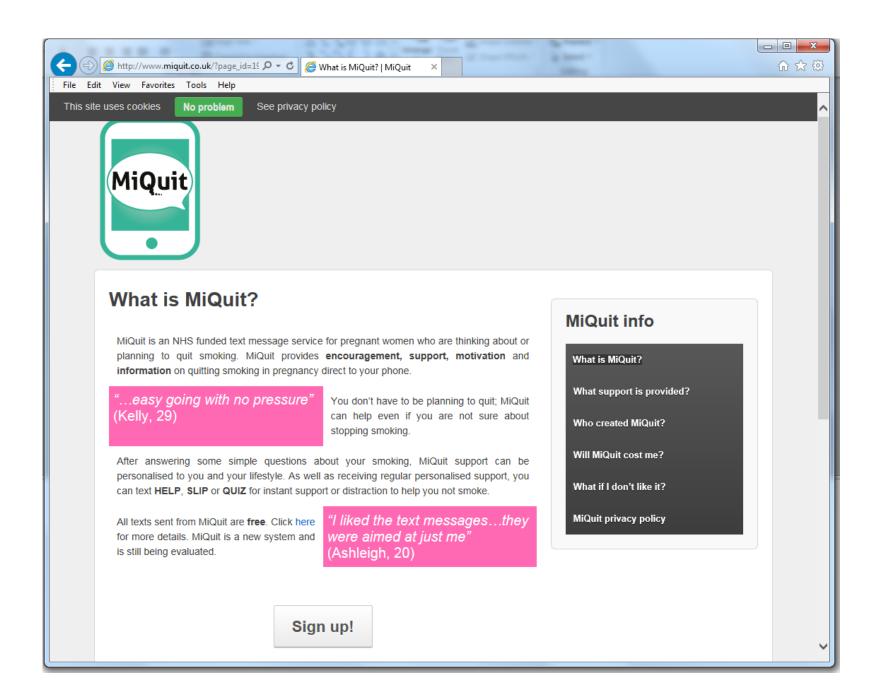
Smokefree also offers information specifically for fathers.

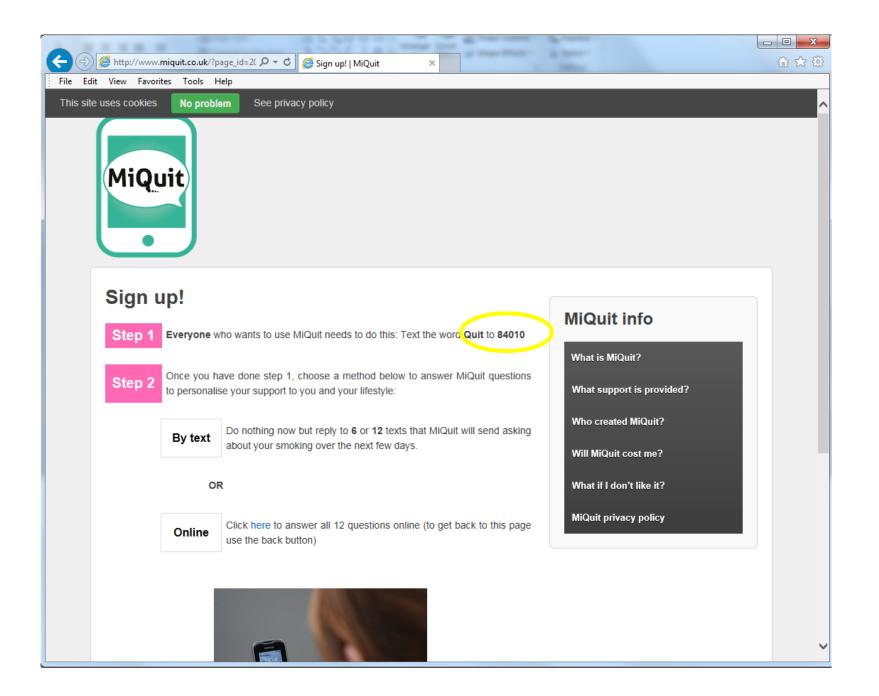
NHS Pregnancy Smoking helpline is on 0800 123 1044. The helpline is open Mon to Fri 9am to 8pm and Sat and Sun 11am to 5pm. You can also sign up to receive ongoing advice and support at a time that is convenient for you.

QUIT is the UK charity that helps smokers to stop and young people to never start. Information on smoking in pregnancy is available as is information specifically for young smokers.

Quitbecause offers information specifically for young smokers.

In June 2010, NICE published public health guidance on quitting smoking in pregnancy and following childbirth. The guidance How to stop smoking in pregnancy and following childbirth guidance updates recommendations on smoking in NICE's clinical guideline on antenatal care.





Google & Facebook advert metrics

- Impressions: number of times your advert is shown / viewed
- Clicks: number of people sent to your website
- Cost Per Click: average cost to send someone to website





Procedure – Run all adverts and links concurrently to budget end (£1000 each) or 6 months max

Measure – advert performance (views → clicks to website → visits to sign-up page → activations), and who enrols

Results

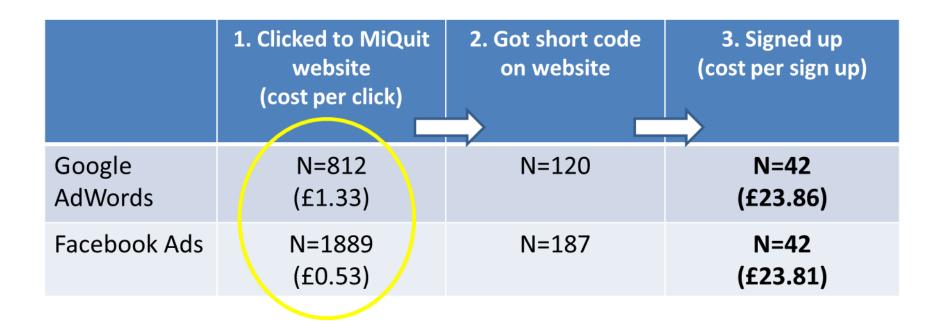
Number of Google searches



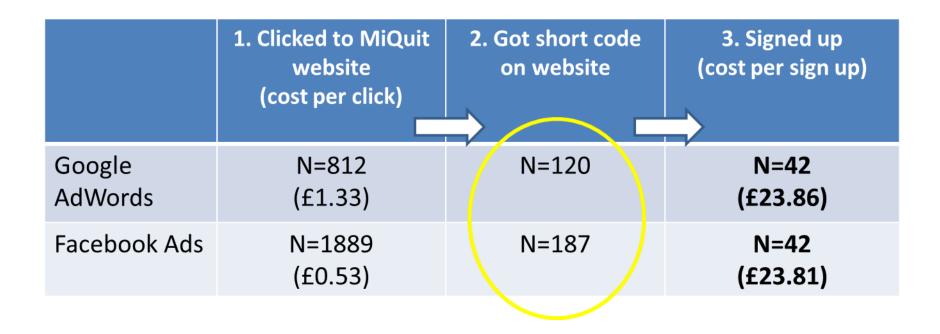
 Advert was shown almost 30000 times in Google in one month (about 2.8% clicked on it) = around 45000 searches made for our keyword phrases

Majority of searches from mobile phones rather than desktops

Commercial advert performance -clicks, sign ups & costs (budget £1000 each)



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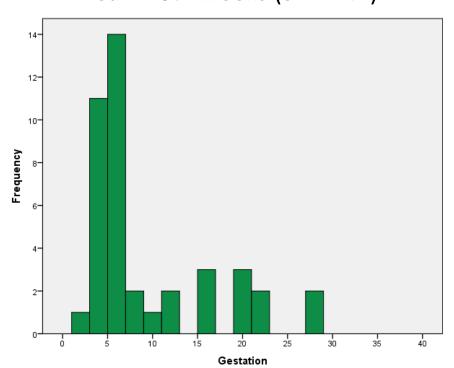
	1. Clicked to MiQuit website (cost per click)	2. Got short code on website	3. Signed up (cost per sign up)
Google AdWords	N=812 (£1.33)	N=120	N=42 (£23.86)
Facebook Ads	N=1889 (£0.53)	N=187	N=42 (£23.81)

- Google 5.2% who visited website signed up (Facebook 2.2%)
- Free links on smoking in pregnancy webpages generated only
 8 sign ups over 6 months

Characteristics of online enrollers - Gestation (weeks)

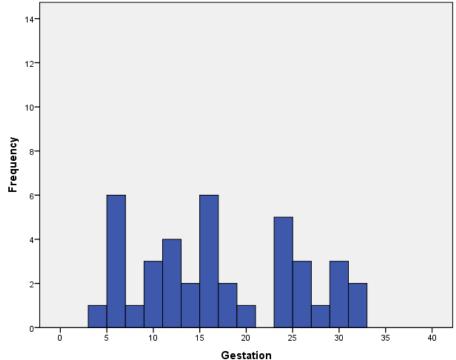
Google AdWords (N = 41)

Mean = 9.1 weeks (SD = 7.2)

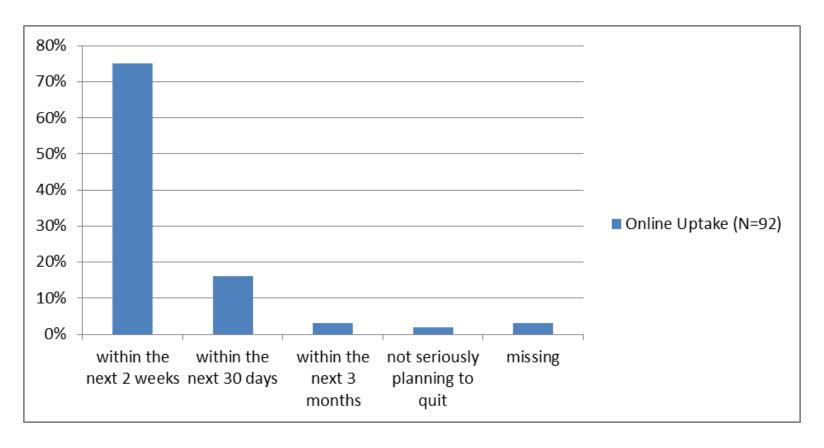


Facebook Ads (N = 40)

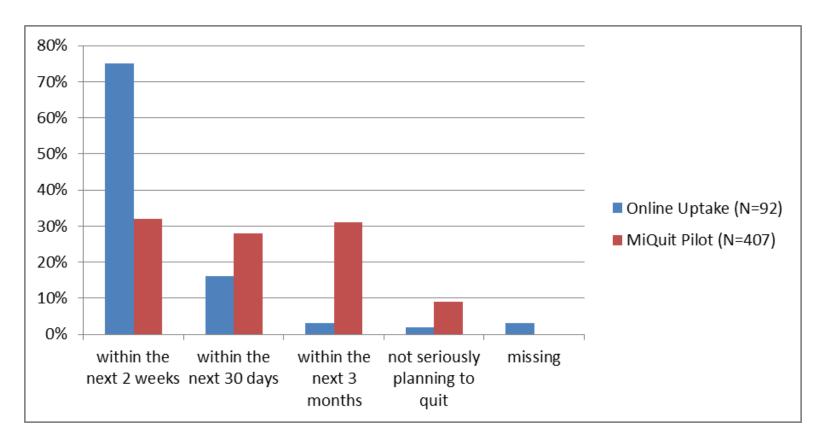
Mean = 16.7 weeks (SD = 8.5)



Characteristics of online enrollers – When planning to quit smoking?



Characteristics of online enrollers – When planning to quit smoking?



• 49% online participants set a quit date (15% in MiQuit Pilot Trial)



Cost effectiveness



- Mean per-participant cost to enrol online
 - £23.81
- Mean per-participant cost to send texts
 - £2.71 (mean 77.5 texts x 3.5p each)
- Total cost per online participant
 - £26.52





Cost effectiveness



- Mean per-participant cost to enrol online
 - £23.81
- Mean per-participant cost of sending texts
 - £2.71 (mean 77.5 texts x 3.5p each)
- Total cost per online participant
 - £26.52
- Incremental quit rate = 3.46%
- Incremental cost per additional online quitter

= £768

(plus fixed, total annual running costs of £759)



Summary 1



- Online (commercial) advertising has reach potential for pregnant smokers
- Target pregnant smokers early and when motivated?
- Likely to be cost-effective

Summary 2



- Next steps:
 - Minimise advertising costs (optimal keywords)
 - Minimise barriers to signing up (website, process)







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