

# THE **E**-CIGARETTE SUMMIT

**Science, Regulation & Public Health**

*The Royal Society ■ London ■ November 12th 2015*



Organised by



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## **Welcome from the Chair**

### **Prof Ann McNeill**

Professor of Tobacco Addiction

UKCTAS - King's College London

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## Prof Robert West

Professor of Health Psychology  
Dept of Epidemiology and Public  
Health  
UCL

# ***Trends in electronic cigarette use in England***



 @robertjwest

*Robert West, Jamie Brown  
University College London*

# Declaration of competing interests

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- I undertake research and consultancy of companies that manufacture licensed smoking cessation medications (Pfizer, GSK and J&J)
- I am a trustee of the charity, QUIT
- I am an unpaid advisor to the National Centre for Smoking Cessation and Training
- My salary is funded by Cancer Research UK

# Aim

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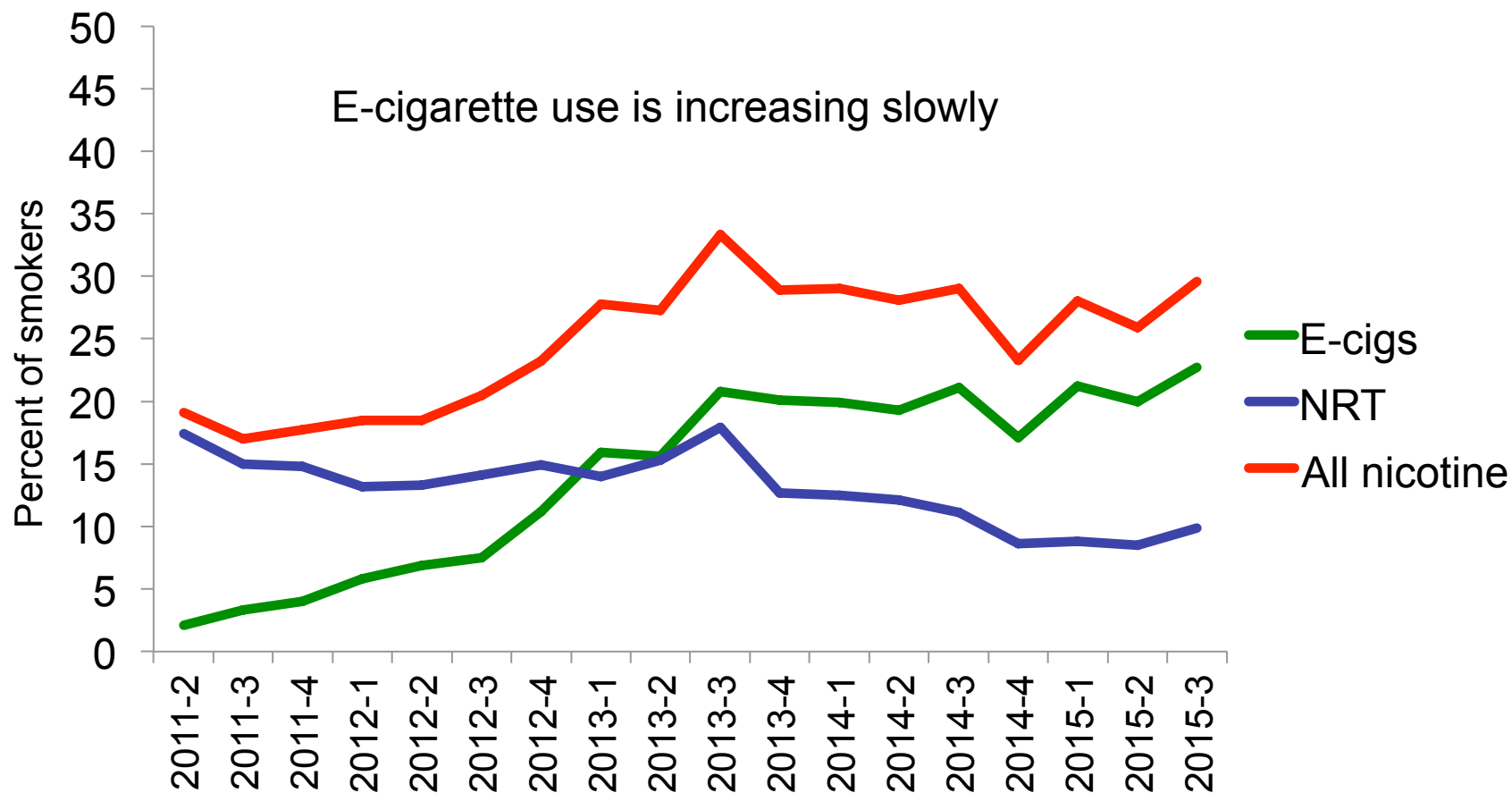
- To track use of electronic cigarettes over time and relationships with key smoking and smoking cessation variables

# Methods

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- Monthly household surveys
- Each month involves a new representative sample of ~1800 respondents; smokers ~450
- Data collected on electronic cigarettes since second quarter 2011
- Fidler, et al., 2011. *'The smoking toolkit study': a national study of smoking and smoking cessation in England*. BMC Public Health 11:479
- For more info see [www.smokinginengland.info](http://www.smokinginengland.info)

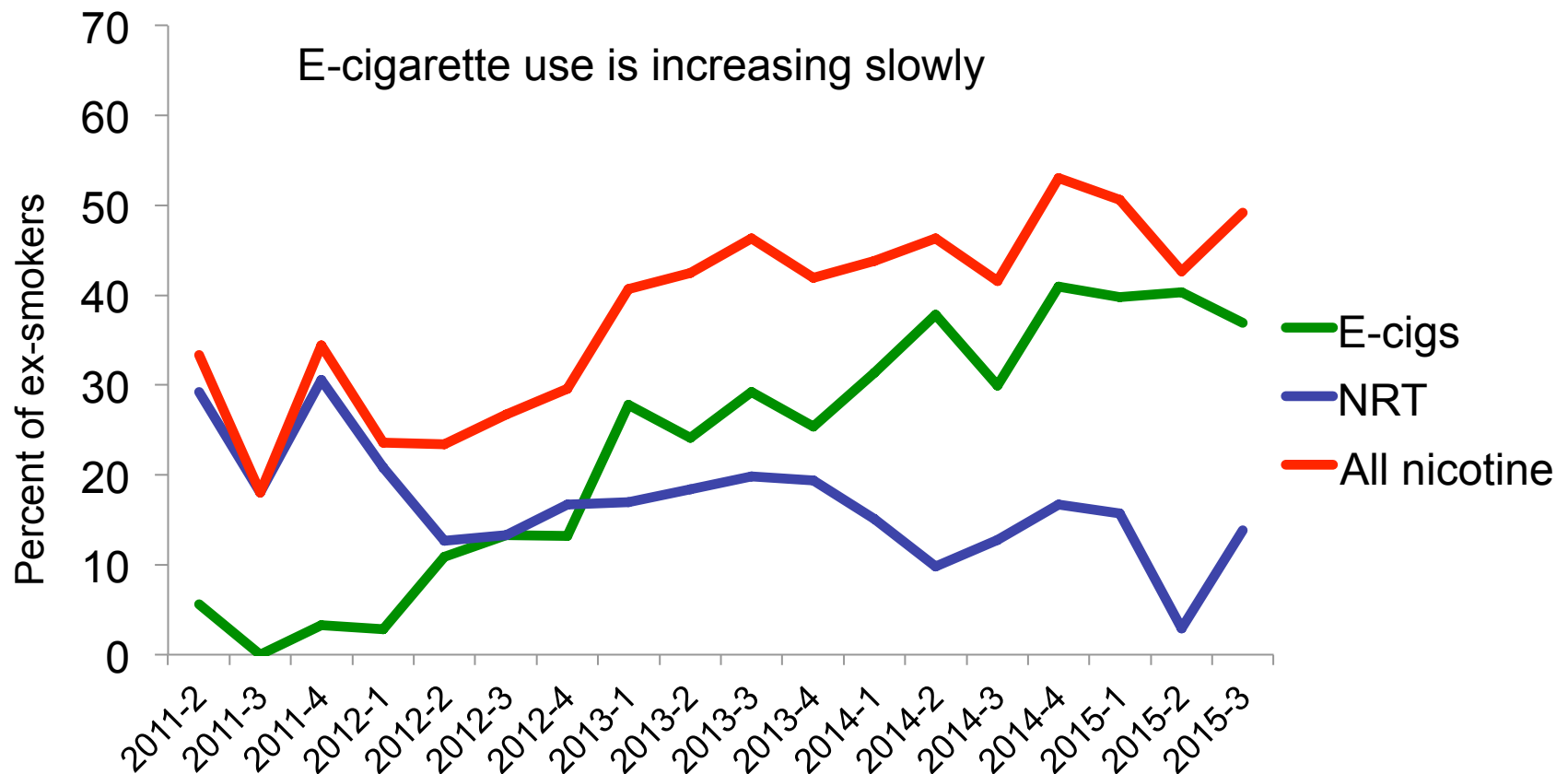
# Use of nicotine products while smoking



N=17443 smokers, increase  $p < 0.001$  e-cigs and all nicotine; decrease  $p < 0.001$  for NRT

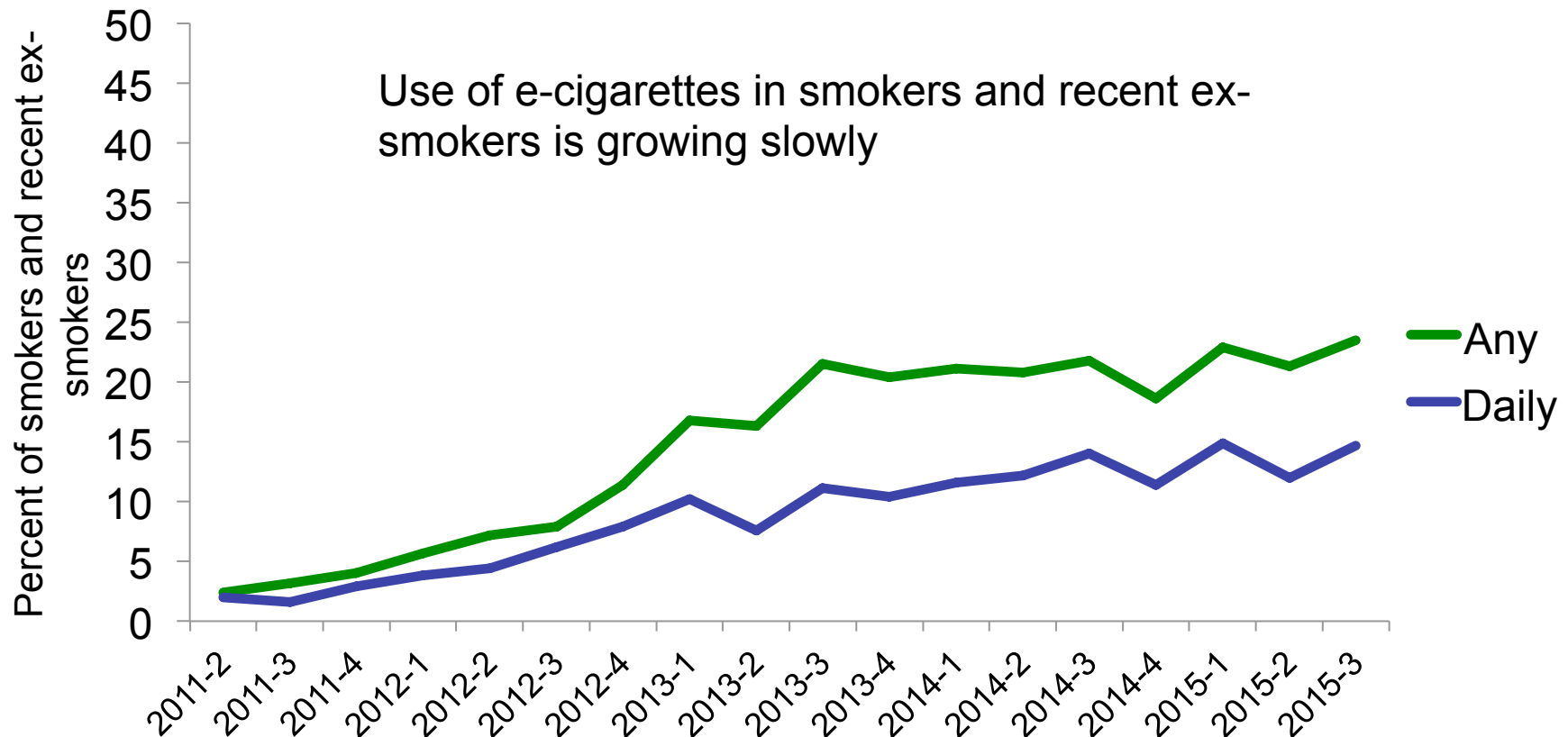


# Use of nicotine products in recent ex-smokers



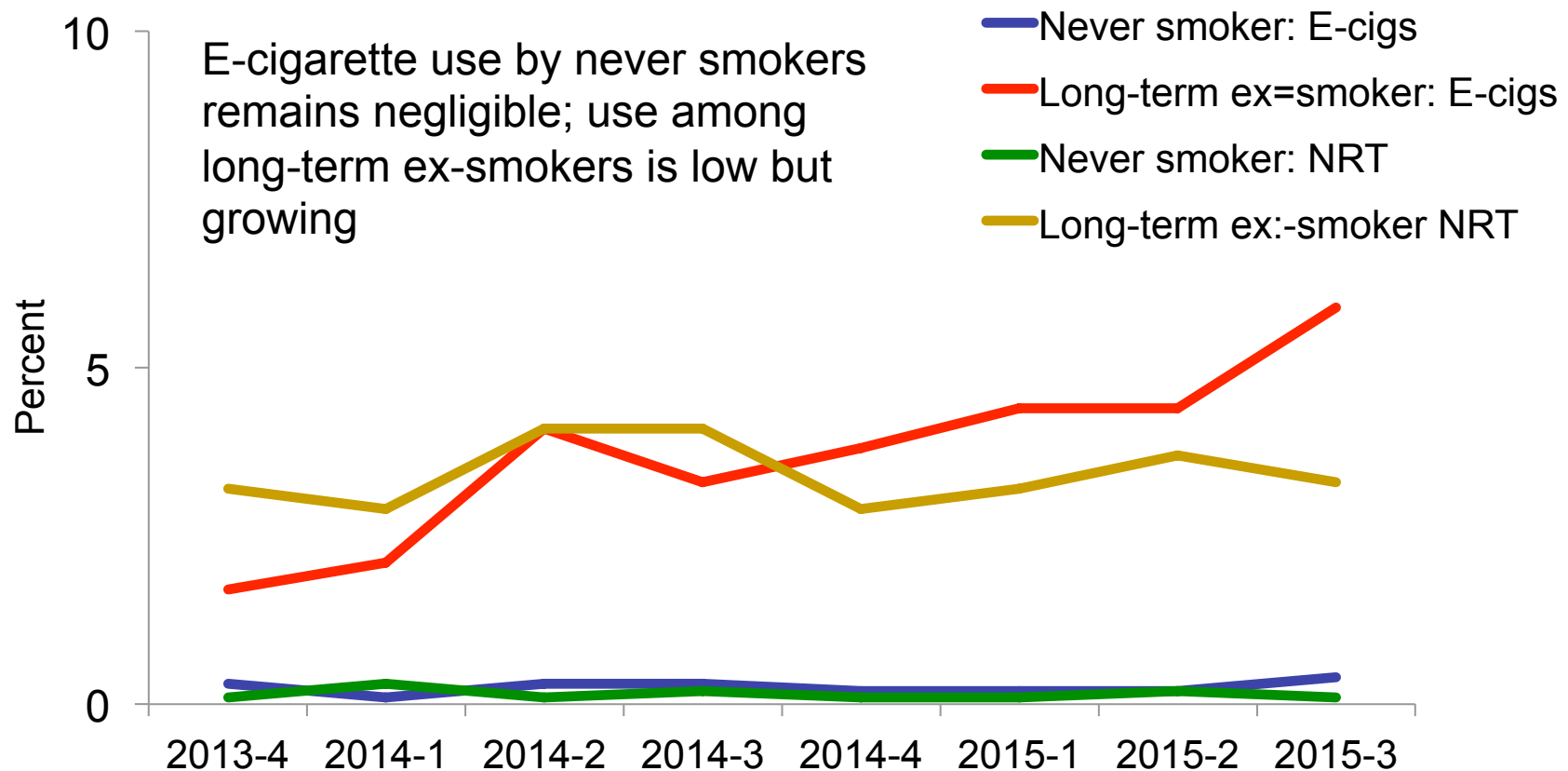
N=1225 adults who stopped in the past year; increase  $p < 0.001$  for e-cigs and all nicotine; decrease  $p < 0.001$  for NRT

# Prevalence of electronic cigarette use: smokers and recent ex-smokers



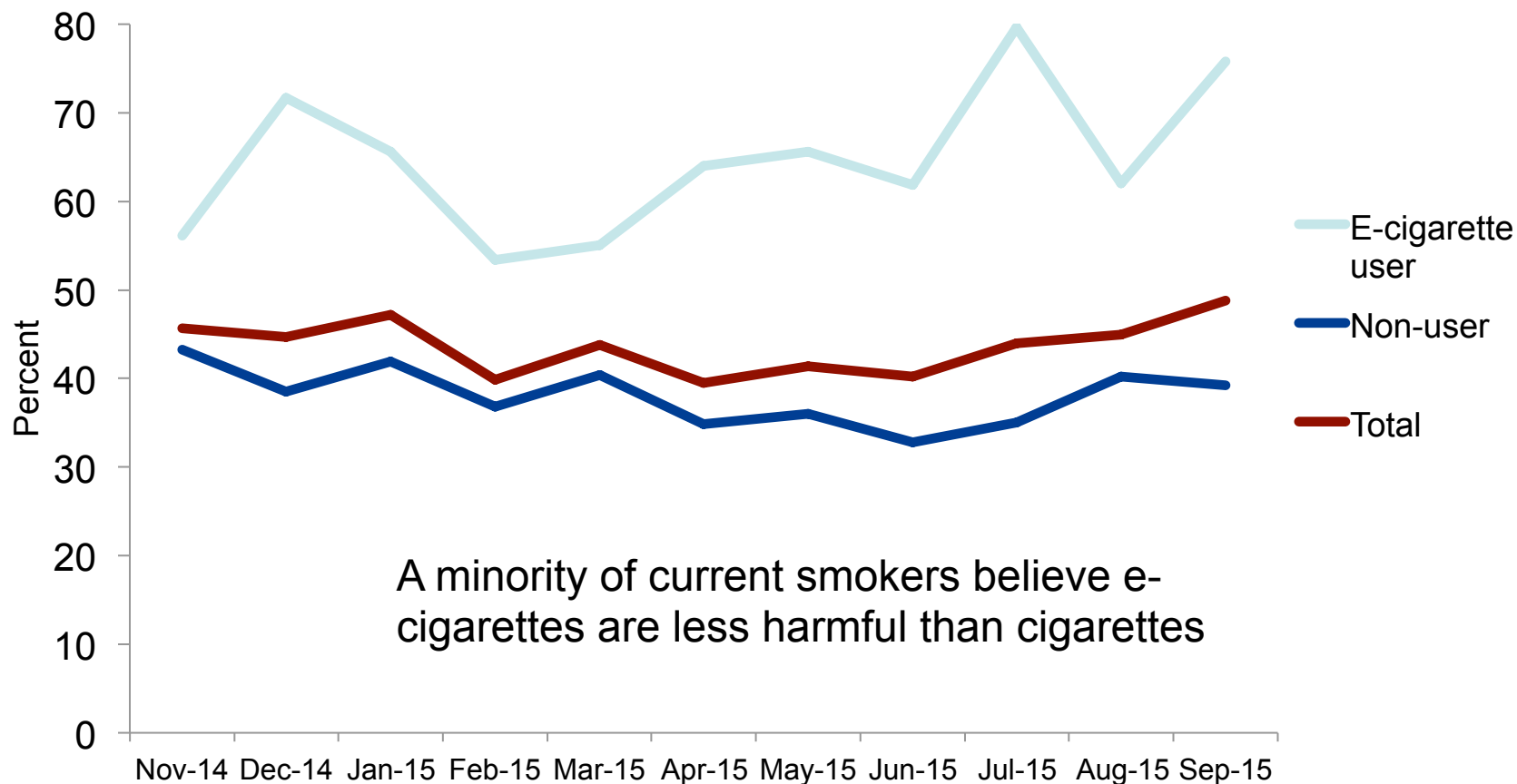
N=18,668 adults who smoke or who stopped in the past year; increase  $p < 0.001$

# Nicotine use by never smokers and long-term ex-smokers



N=30,398 never and long-term ex-smokers from Nov 2013

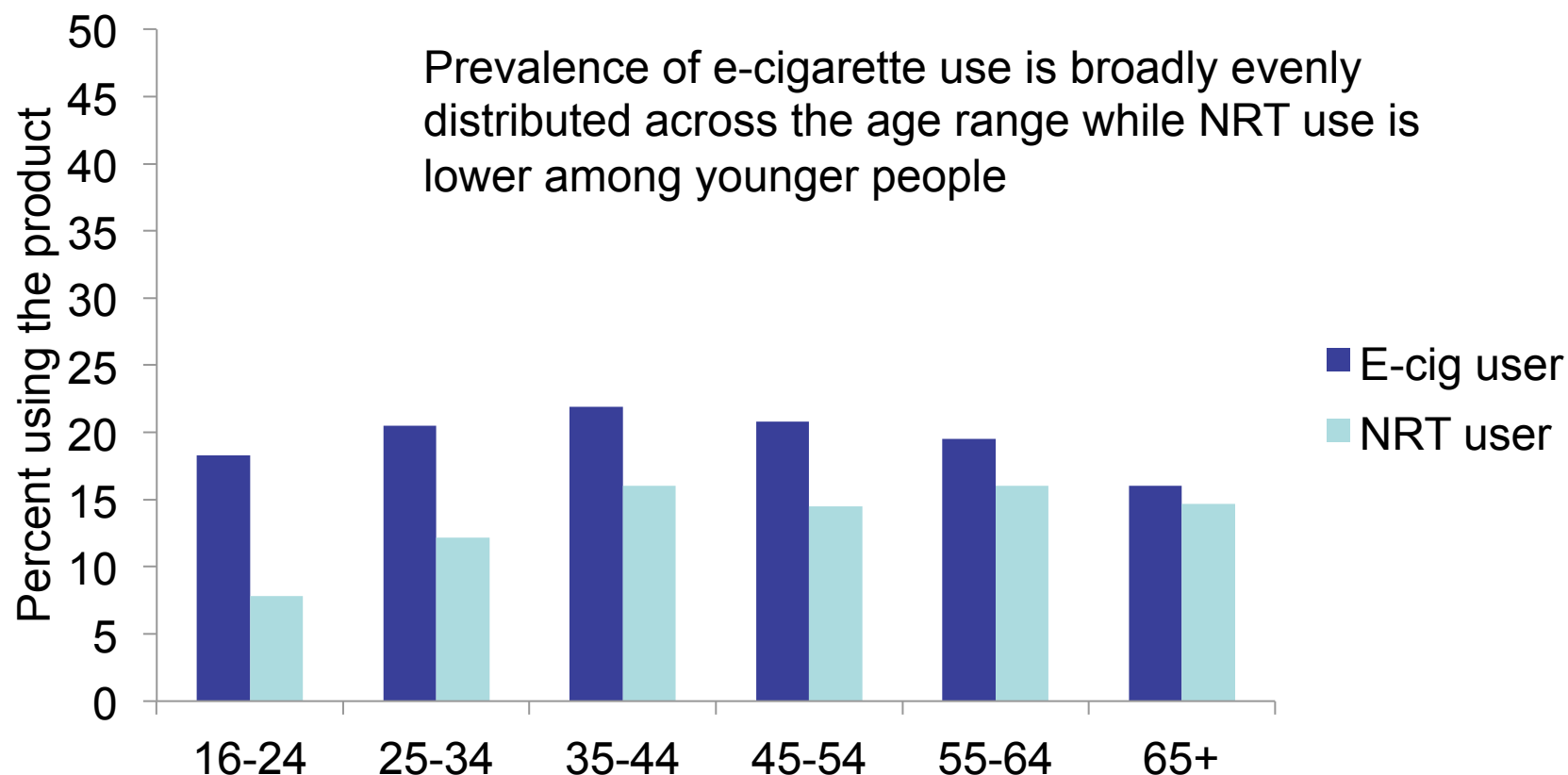
# Proportion of smokers believing e-cigarettes less harmful than cigarettes



N=3594 current smokers

# Electronic cigarette and NRT use across the age range

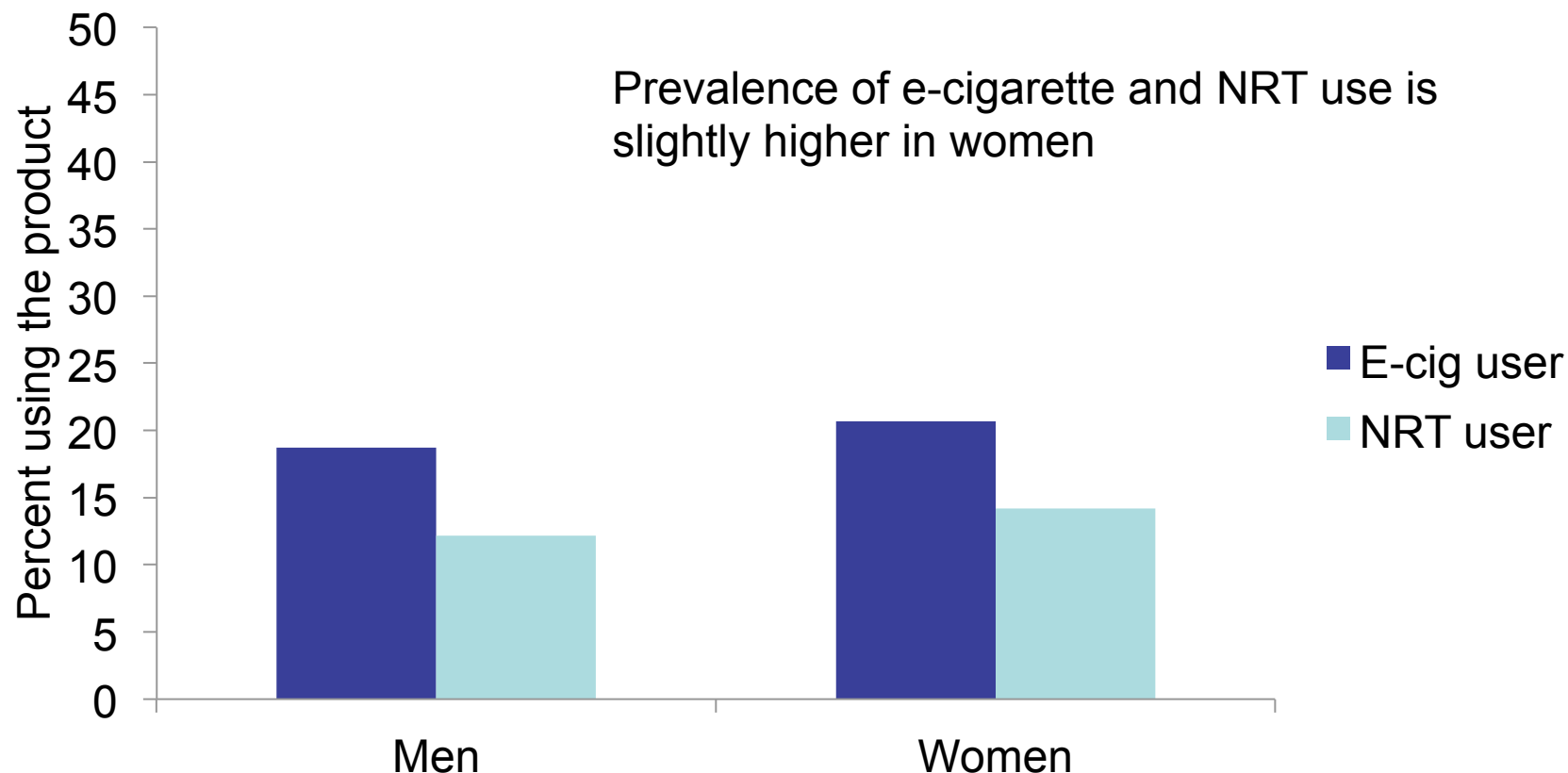
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N=8,263 adults who smoke or who stopped in the past year and were surveyed between 2013 and 2014

# Electronic cigarette and NRT use in men and women

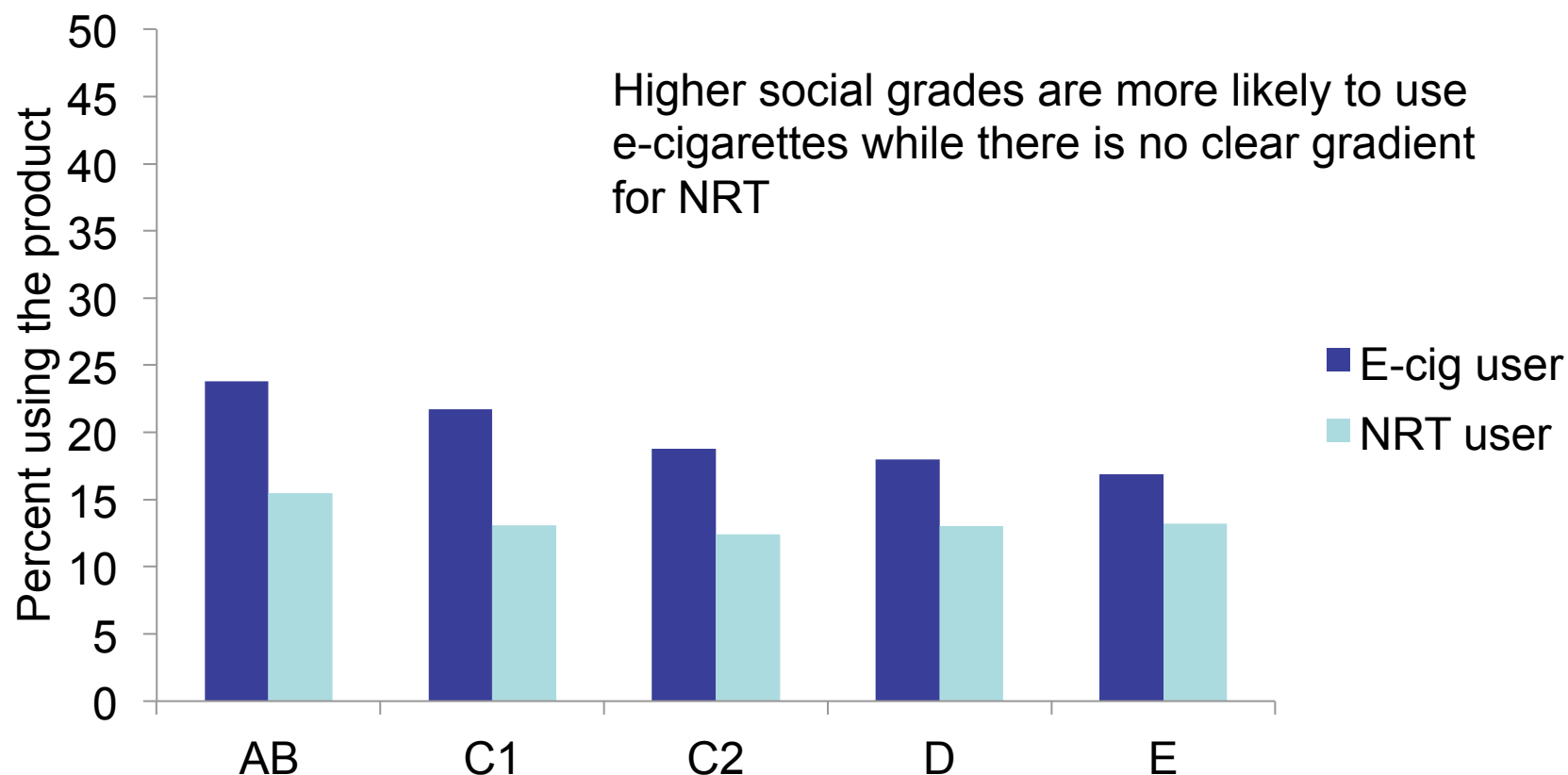
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N=8,263 adults who smoke or who stopped in the past year and were surveyed between 2013 and 2014

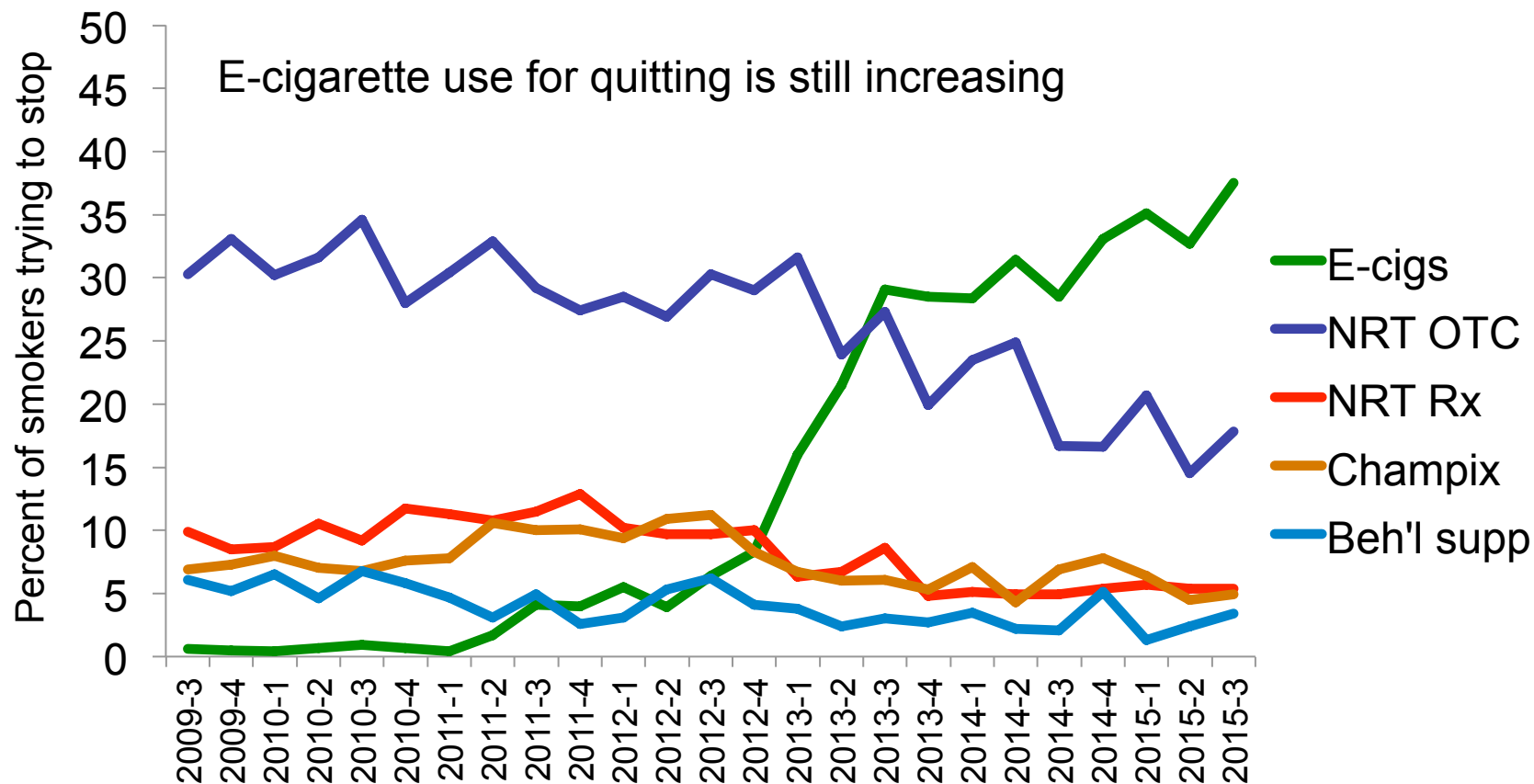
# Electronic cigarette and NRT use across the social gradient

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N=8,263 adults who smoke or who stopped in the past year and were surveyed between 2013 and 2014

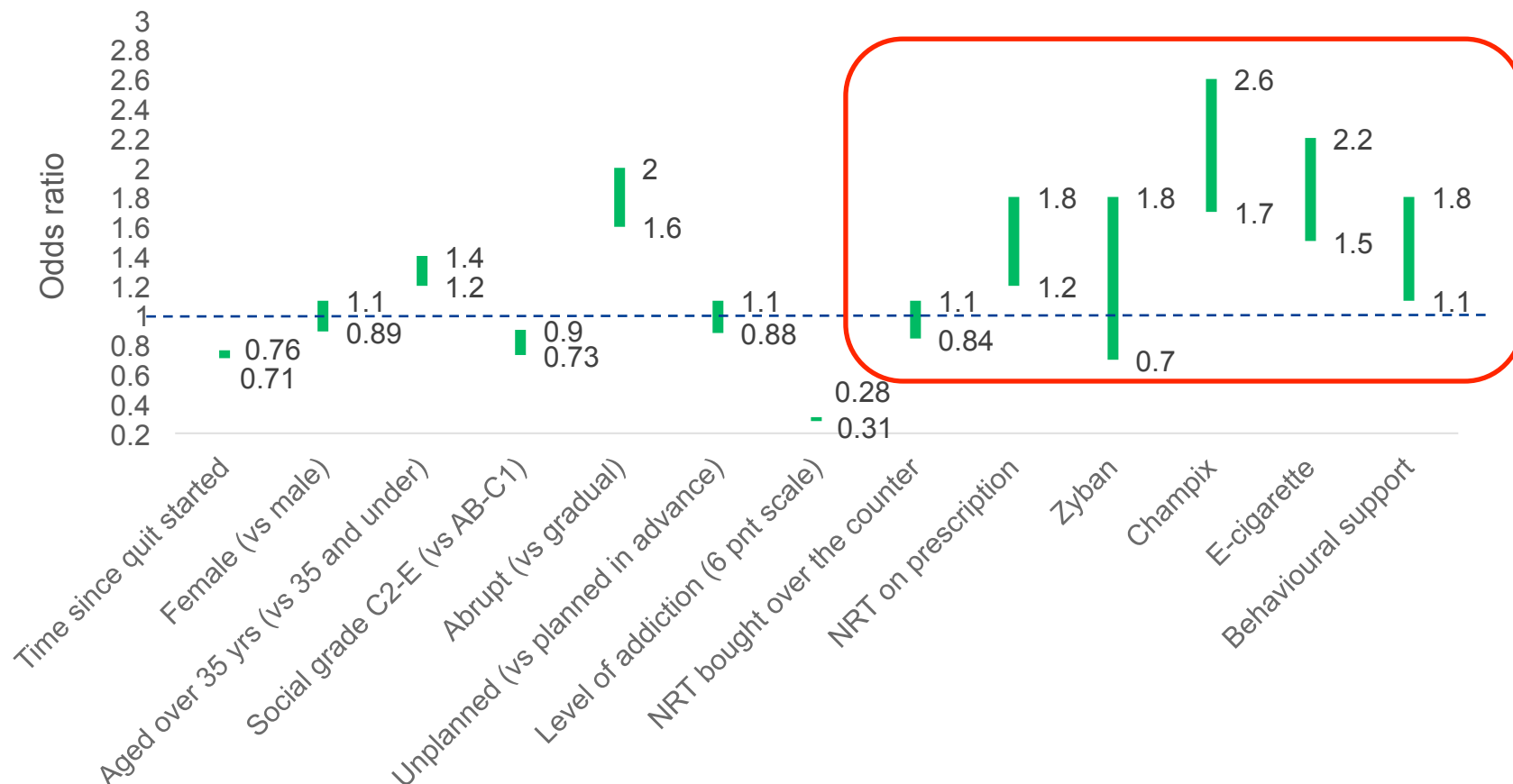
# Aids used in most recent quit attempt



N=10,756 adults who smoke and tried to stop or who stopped in the past year; method is coded as any (not exclusive) use



# Factors associated with odds of success in most recent quit attempt

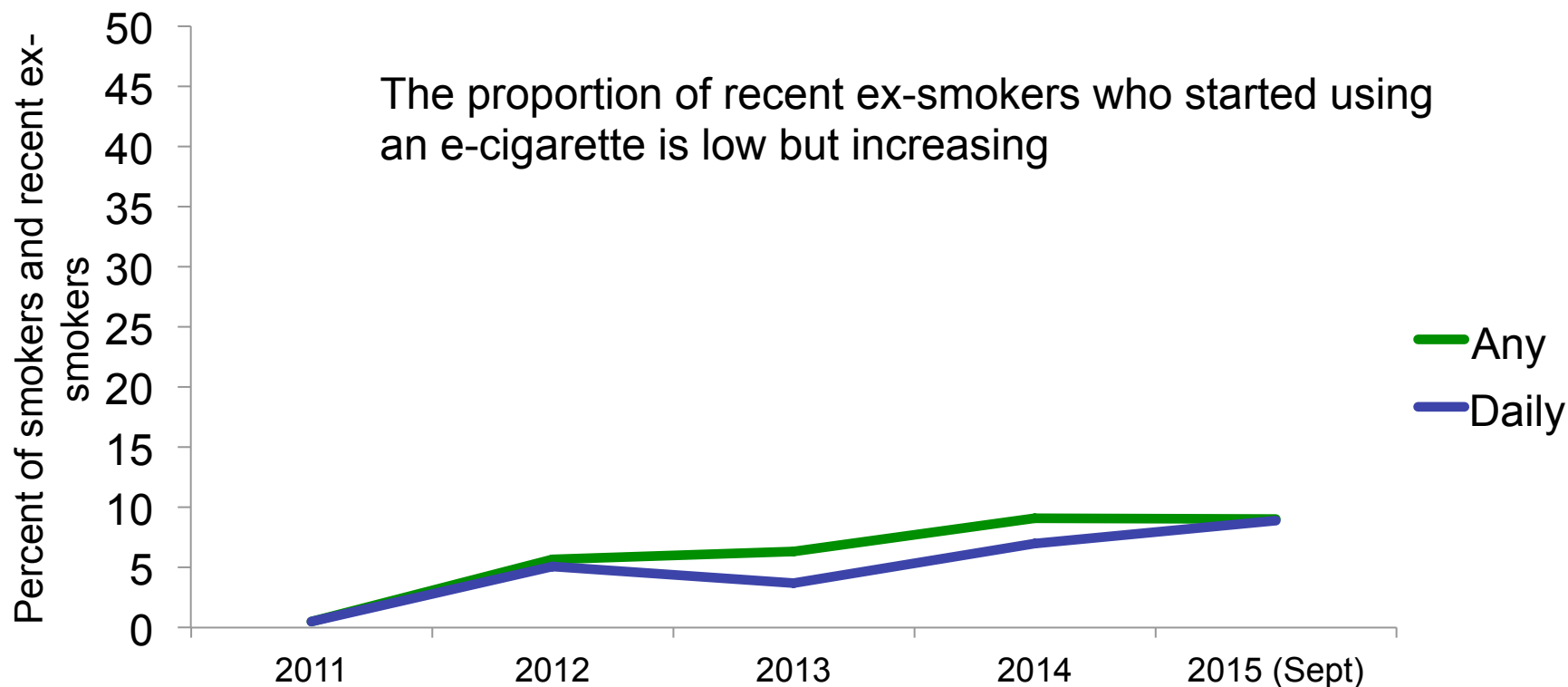


Base: 14,813 smokers who tried to quit in past 12 months

[www.smokinginengland.info/latest-statistics](http://www.smokinginengland.info/latest-statistics)

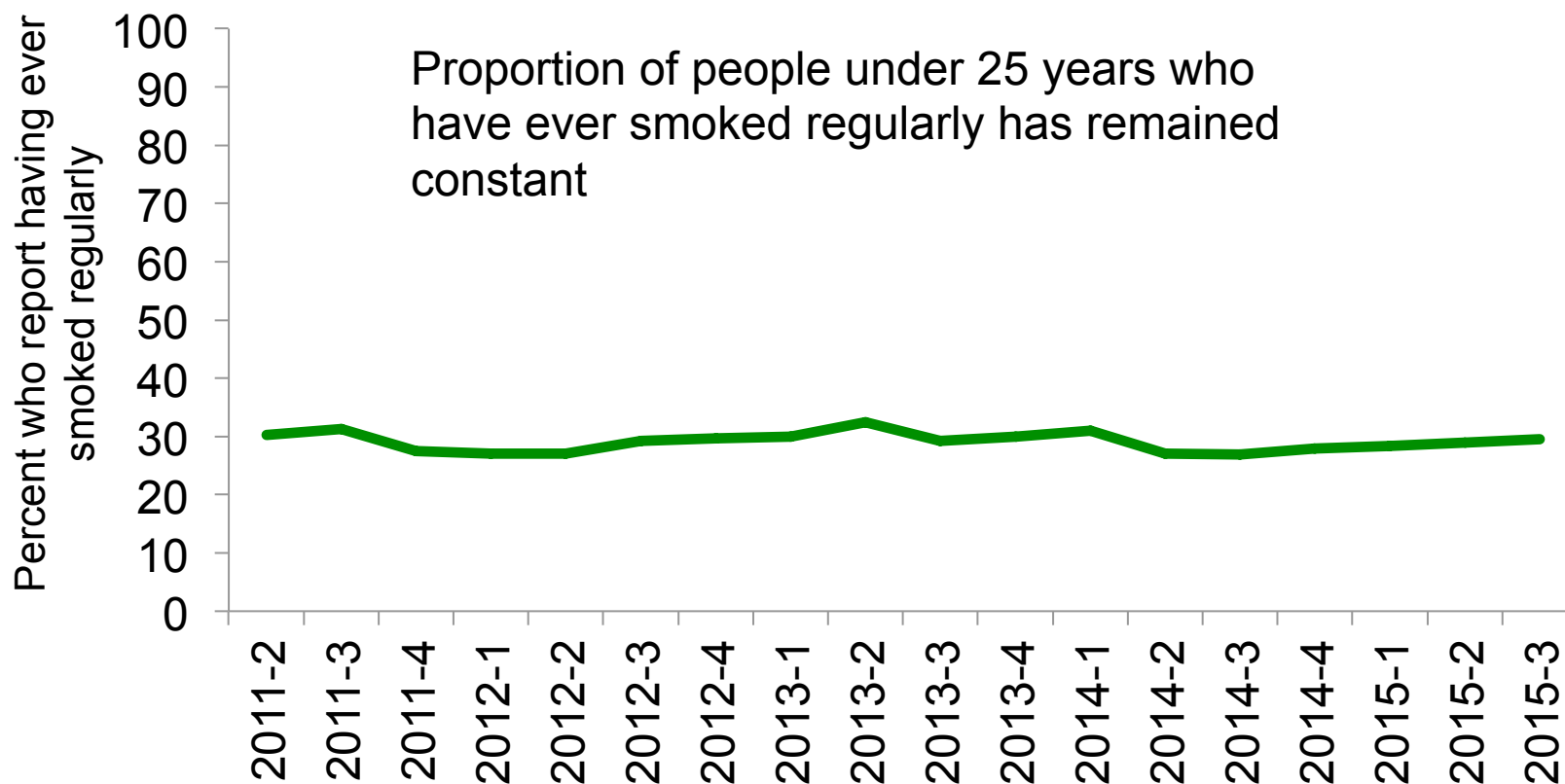
# E-cigarette use after quitting

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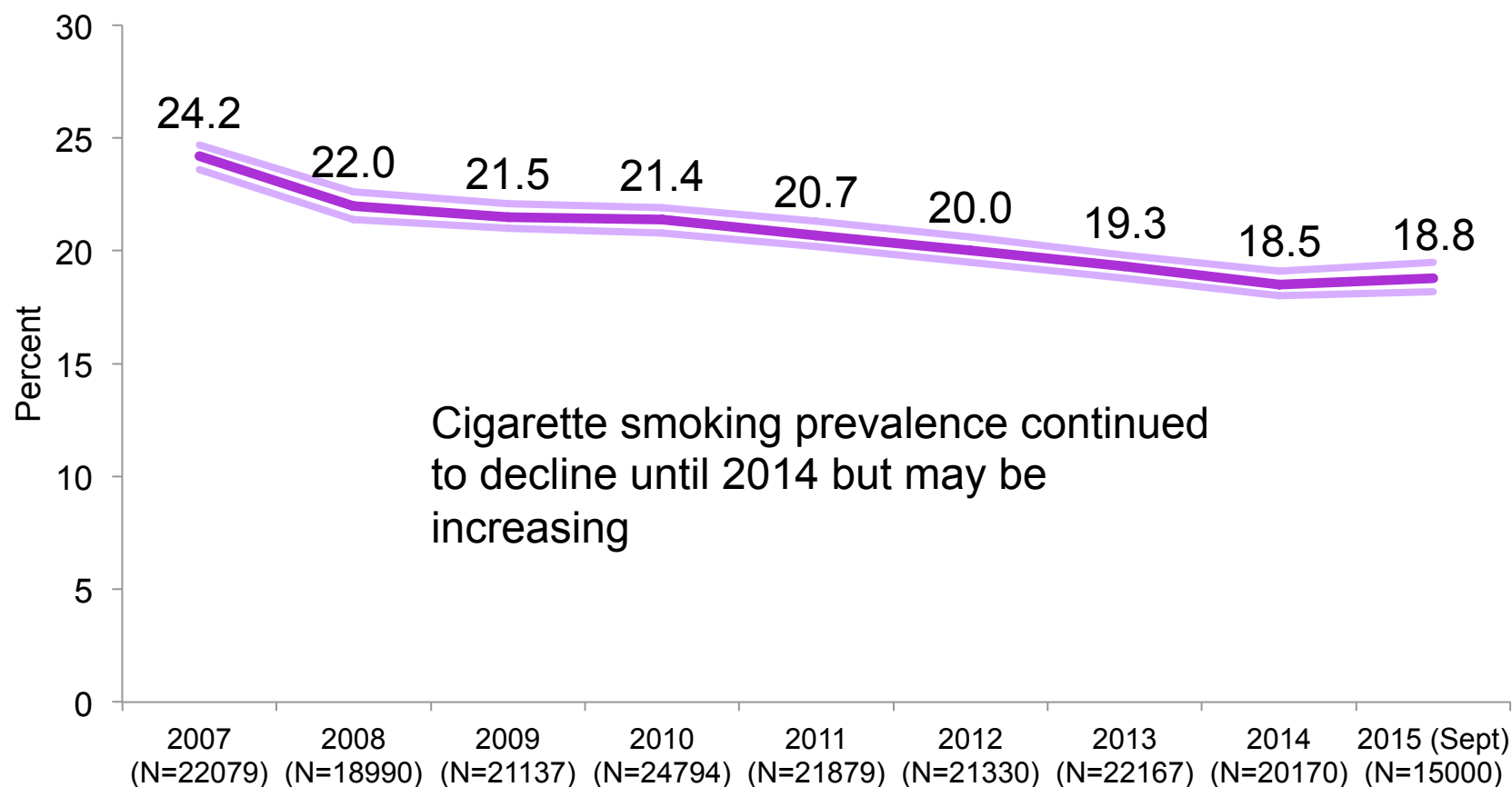
N=792 adults who stopped in the past year and did not report using an e-cigarette to help during the quit attempt

# Take-up of smoking



N=14469 people aged 16-24

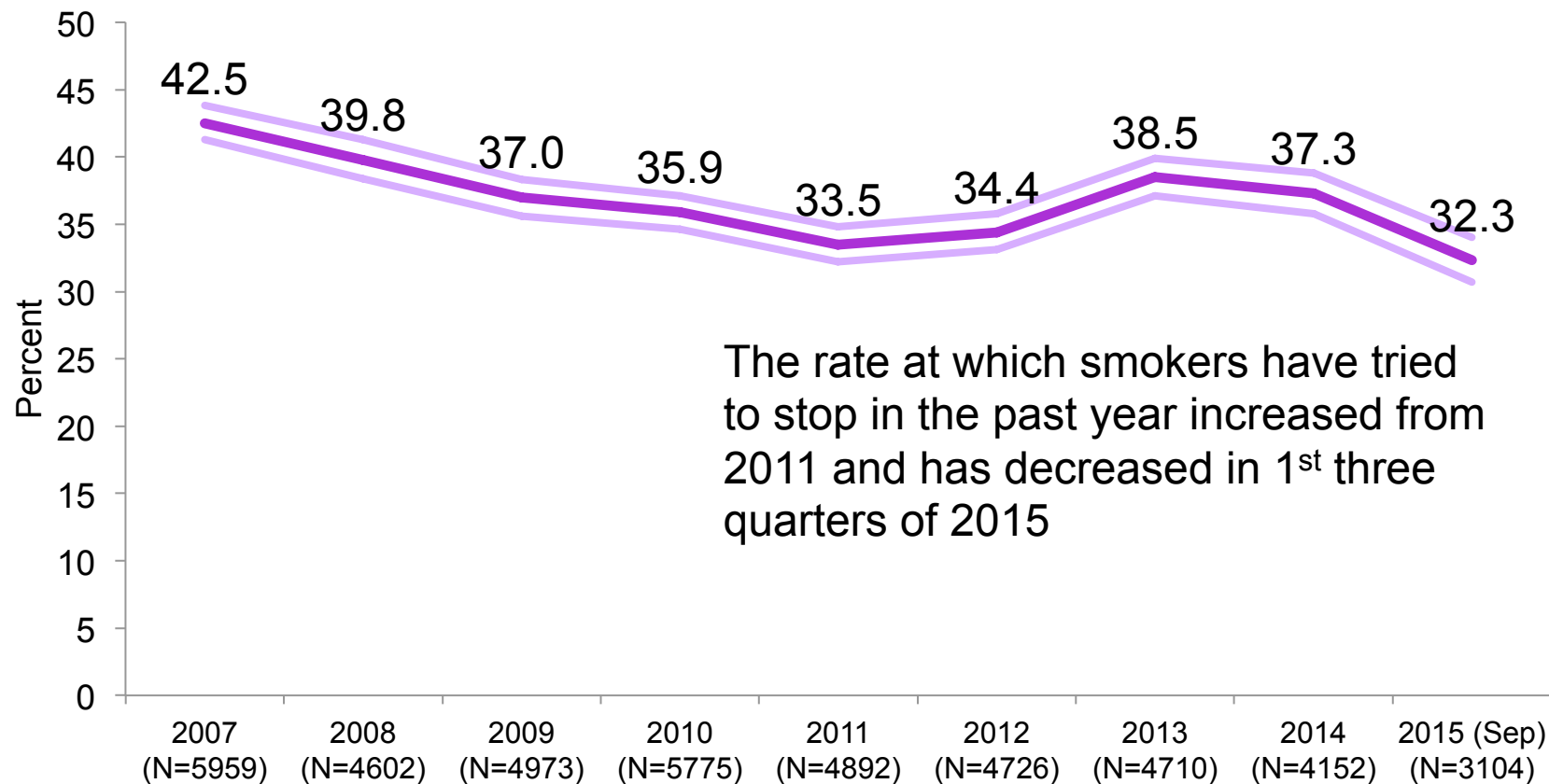
# Cigarette smoking prevalence



Base: All adults

Graph shows prevalence estimate and upper and lower 95% confidence intervals

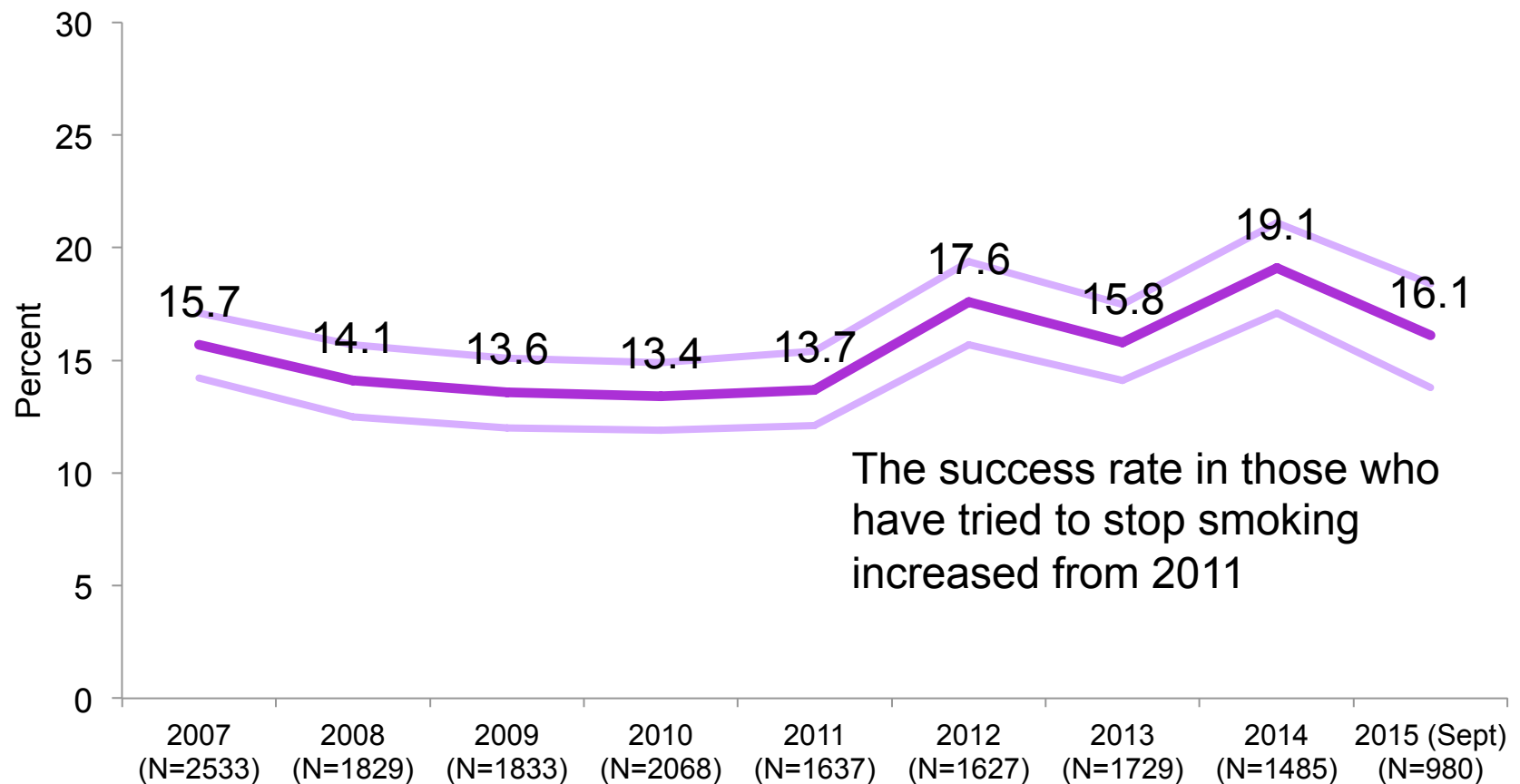
# Tried to stop smoking in past year



Base: Adults who smoked in the past year

Graph shows prevalence estimate and upper and lower 95% confidence intervals

# Success rate for stopping in those who tried



Base: Smokers who tried to stop in the past year

Graph shows prevalence estimate and upper and lower 95% confidence intervals

# Conclusions

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- E-cigarettes are being used primarily by smokers want to stop or reduce their smoking
- Use of e-cigarettes is slightly more prevalent in younger adults and people with higher social grade compared with NRT
- Only a minority of people believe e-cigarette are less harmful than smoking
- They are the most popular aid to cessation and appear to be effective
- There is no clear association between growth in e-cigarette use and changes in smoking cessation rates or smoking prevalence