

Second-hand smoke exposure in households switching from cigarette to e-cigarette use



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E-cigarette use is more widely accepted throughout the home than cigarettes increasing the likelihood of secondhand e-cigarette exposure.

RESEARCH QUESTION

What is the potential impact of smokers switching to e-cigarettes on air quality and the health of those with secondhand e-cigarette exposure?

BACKGROUND

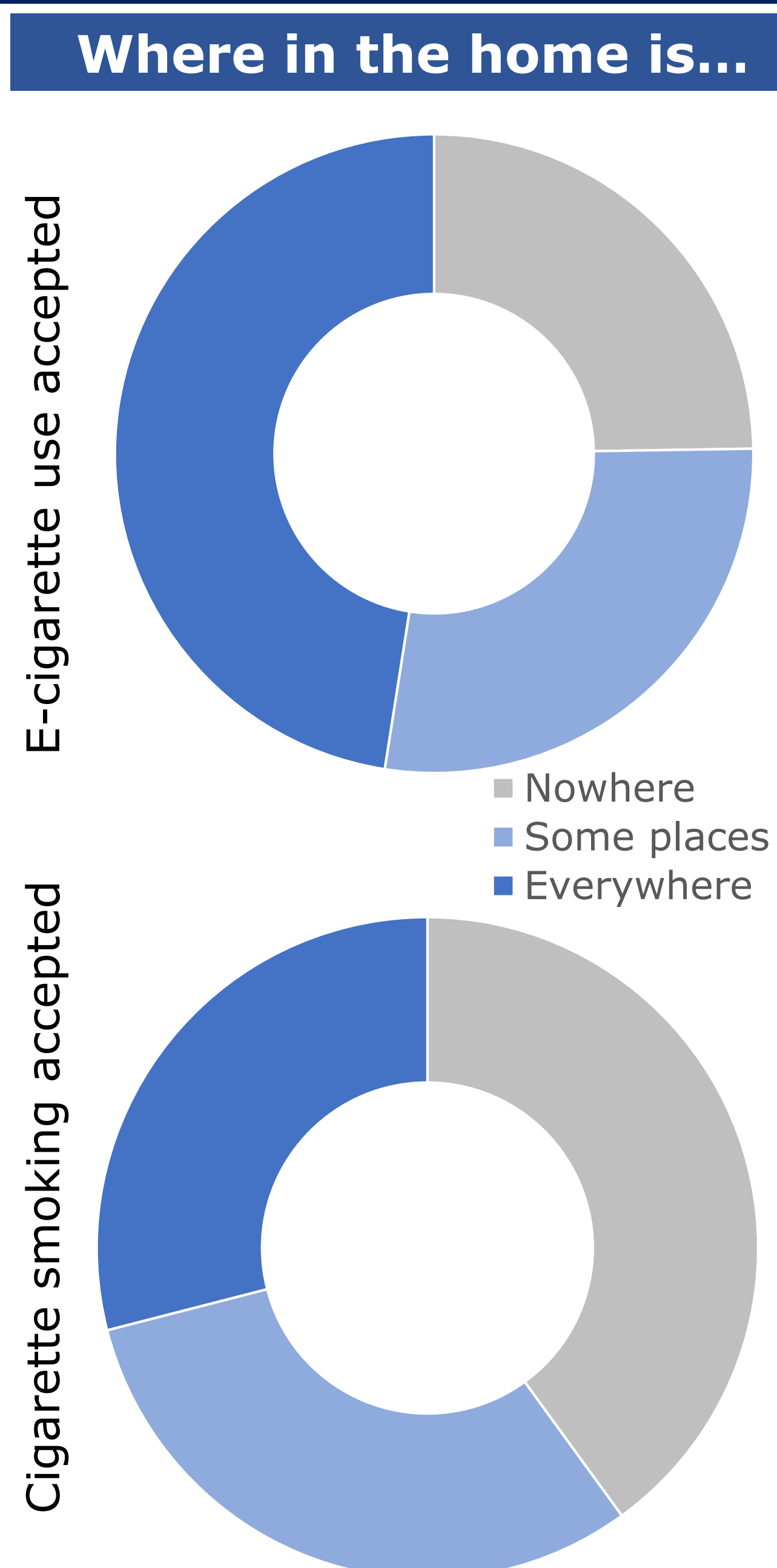
- Secondhand cigarette smoke exposure has numerous negative consequences
- There is a risk e-cig particles have adverse respiratory and cardiovascular effects
- Studies examining the health effects of secondhand e-cig exposure are limited

METHODS

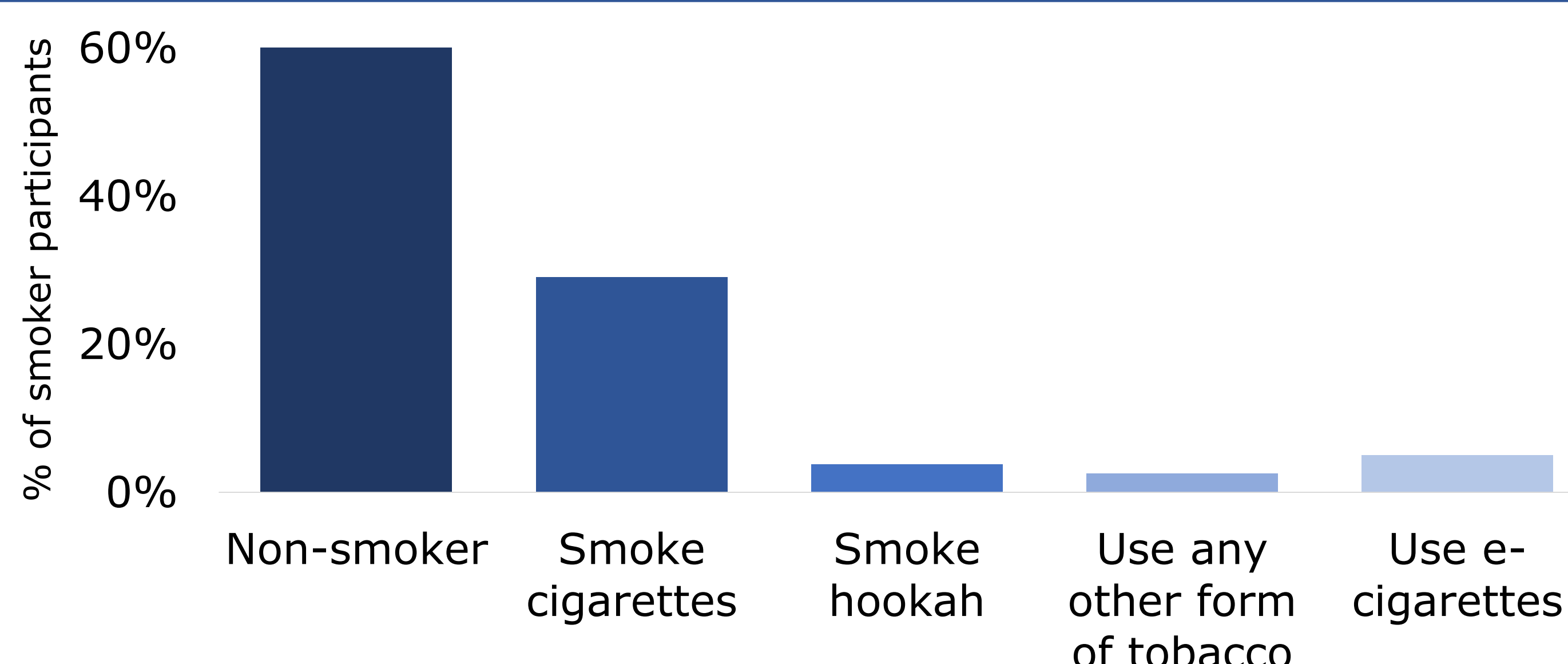
- Inclusion: Smokers switching to e-cigs living with ≥ 1 non-smoker/vaper
- Subsample from longitudinal cohort study
- Measures: Acceptability and feasibility; Air quality and health measures of non-smokers collected at baseline, 12-wks, & 6-months (not reported)

RESULTS

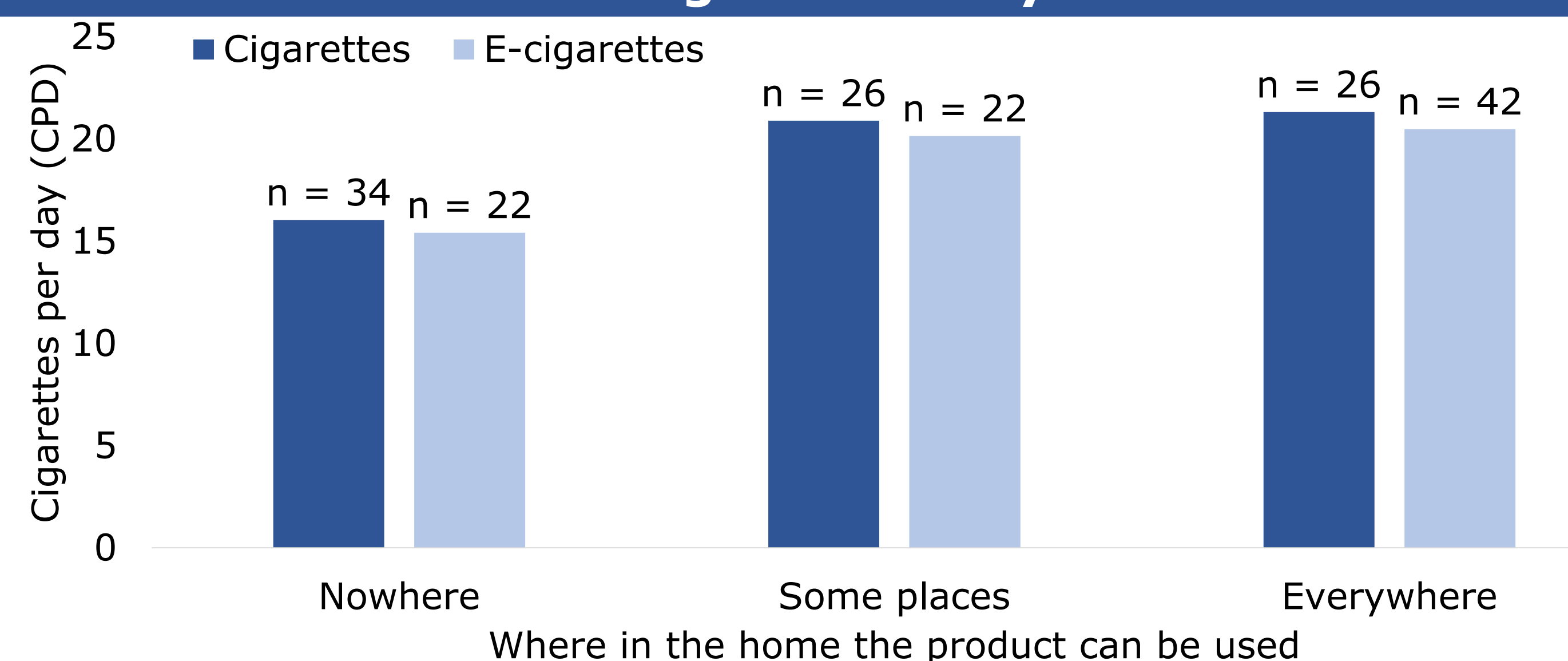
- N= 121 smokers from harm reduction RCT for switching to e-cigarettes
- 69% of switching study participants willing to have home air quality measured
- 60% live with ≥ 1 non-smoker
- E-cig use more often allowed anywhere in home than cigarettes (49% v. 30%)



Percent of smoker participants living with anyone who...



Mean CPD among smokers by house rules



CONCLUSIONS

Air quality is likely altered in homes of smokers switching to EC, but its effect on the health of those exposed needs further exploration.

- Many current smokers live with at least one non-smoker/non-e-cig user.
- E-cig use is more widely accepted throughout the home compared to cigarette smoking.
- More information is needed regarding the impact of EC use on home air quality and the health impact of EC SHS exposure on non-smoker/non-EC users.