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Factors associated with previous quit attempts and motivation to quit, amongst primary care patients who are current smokers in Macedonia: a Breathe Well study

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Background and aims



- In North Macedonia, smoking prevalence is 46% of adults aged 15-64 and 22.04% of annual mortality is attributable to smoking
- The relationship between levels of addiction and motivation to quit in Macedonia is unknown
- We undertook baseline analyses of our novel smoking cessation trial

Research question:

 What is the association between level of nicotine dependency and previous quit attempts and motivation to quit smoking amongst primary care patients?

Methods



• Study design: Cross-sectional analysis of the baseline data from our RCT

• **Population:** ≥35yrs, ccurrent smokers, ≥10 cigarettes per day

• Intervention: 1) VBA + lung age, 2) VBA + exhaled CO

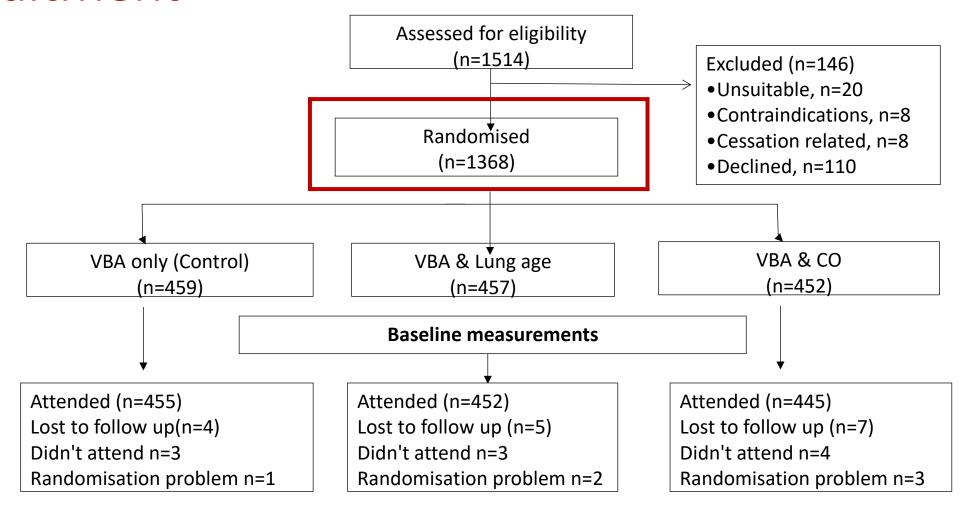
Control: VBA alone

Analysis of baseline questionnaire data:

 Regression models assessed associations between nicotine dependence (Fagerstrom) and intention to quit and previous attempts to quit, adjusting for sociodemographic variables

Recruitment





Participant characteristics



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Sex; n (%) Female Male	704 (52.3) 643 (47.7)
Age in years; mean (SD)	51.2 (10.3)
Ethnicity; n (%) Macedonian Albanian Other	1127 (83.4) 116 (8.6) 108 (7.8)
Employment status n (%) Employed Unemployed Retired	908 (67.5) 150 (11.2) 207 (15.4)
Household income n (%) < 20000 MKD (~350 EUR) 20 0000 – 29 999 MKD (~350-470 EUR) >30 000 MKD 500 EUR (~>470 EUR) Prefer not to say	493 (36.7) 294 (21.9) 280 (20.8) 277 (20.6)

Self-reported smoking behaviour



	Participants with available data (n=1328)
Smoking history; mean (SD) pack years	39.3 (22.7)
Self-reported nicotine dependency *; n (%) Low Moderate/high	626 (47.1) 702 (52.9)
Number of serious quit attempts; n (%) 0 1-3 >3	621 (46.8) 565 (42.6) 125 (10.6)
Current motivation to quit; n (%) Don't want to quit Wanted to quit in next 1-3 months	1235 (93.0) 78 (5.9)

^{*} Fagerstrom nicotine dependency score

Association between high nicotine dependency



- 1. Previous quit attempts
- 2. Current intention to quit

	Adjusted OR (95% CI)
Self-reported previous quit attempts	0.90 (0.85 to 0.95)
Self-reported current intention to quit	1.00 (0.90 to 1.12)

- compared against low nicotine dependency defined by Fagerstrom score
- adjusted for sex, age, education, ethnicity, employment, income, marital status, area of living

Conclusion



- The majority of smokers did not want to quit
- Those with higher nicotine dependency were less likely to have made previous quit attempts
- Higher nicotine dependency was not associated with current intention to quit smoking
- It is important to identify effective smoking cessation intervention for primary care patients in North Macedonia















Declaration of Interest

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The study is registered at http://www.isrctn.com (ISRCTN54228638).









