

NICOTINE PHARMACOKINETICS OF ELECTRONIC CIGARETTES

An updated analysis of pooled data from the literature

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CORESTA SSPT 2021

Introduction

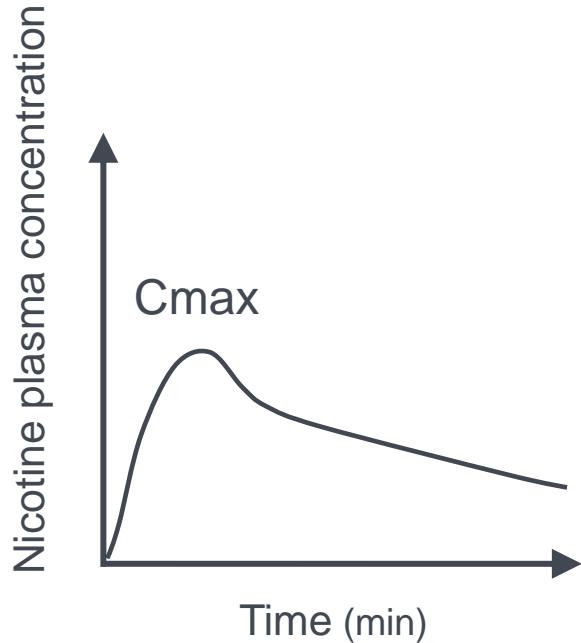
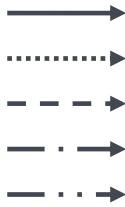
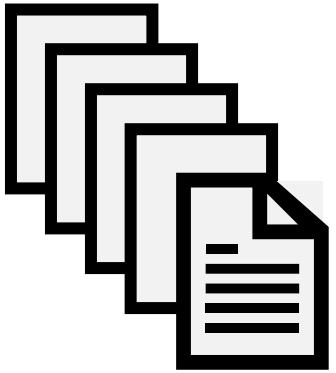


Maximum e-liquid
nicotine concentration 20
mg/ml

Is there a correlation between e-cigarette nicotine concentration and nicotine levels in the blood?

Analysis of e-cigarette nicotine pharmacokinetics

E-cigarette studies

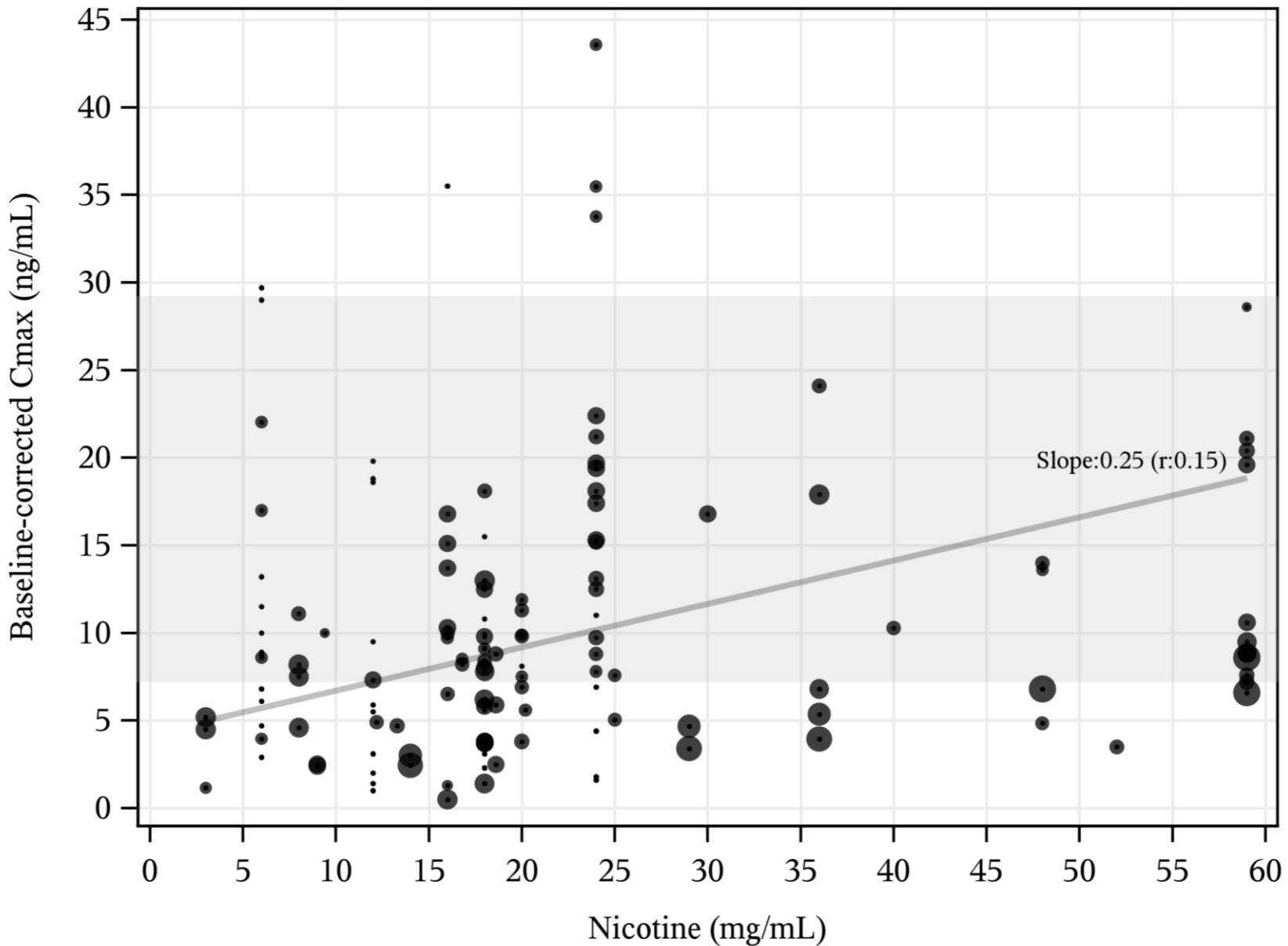


- E-cigarette device type
- User experience
- Puffing behavior

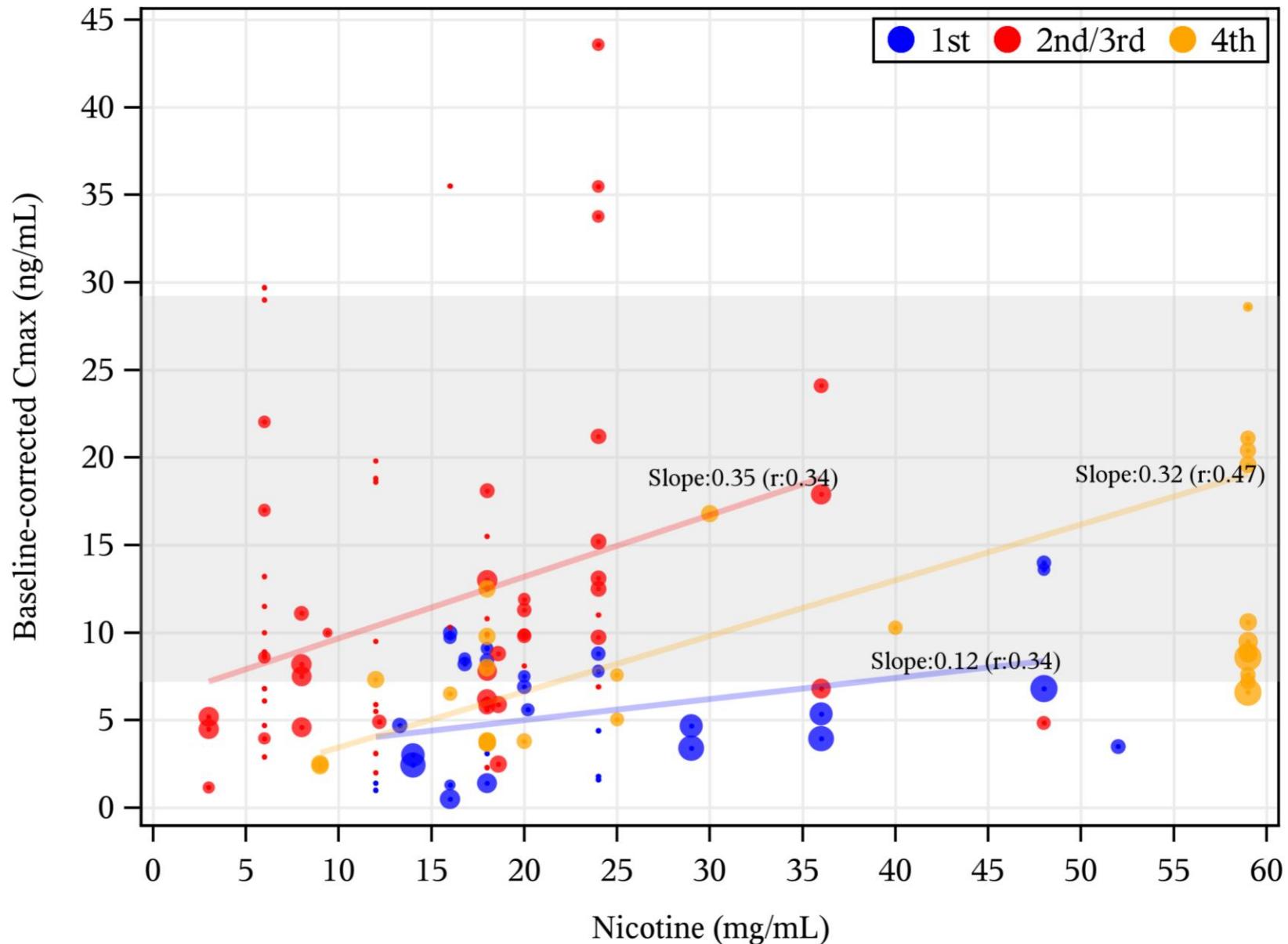
→ Jacobson, K., et al. (2021). *Toxicology Reports* 8: 84-95

→ Updated analysis – data March 2020 – July 2021

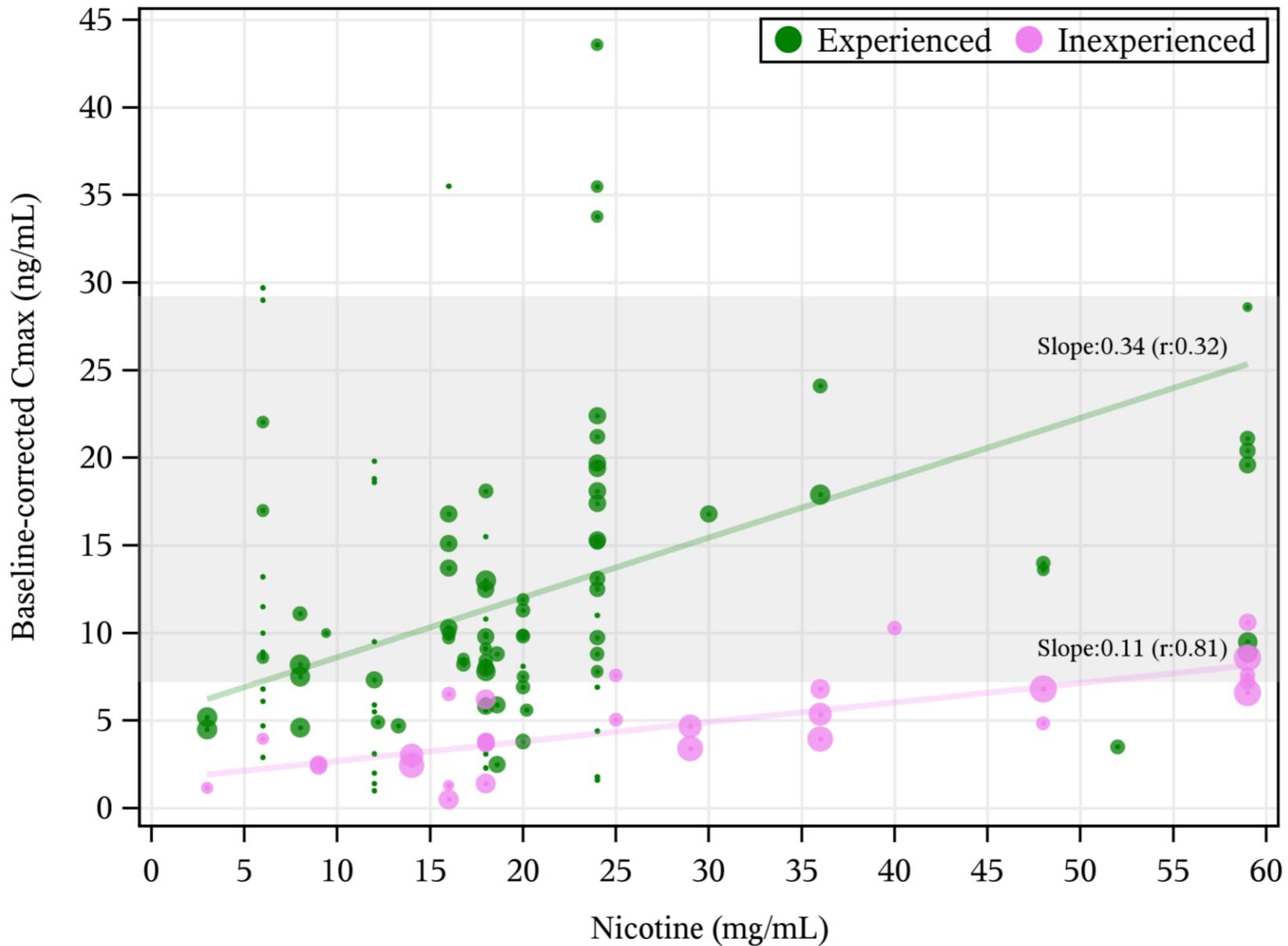
Complete data set with wide distribution of Cmax



Differences between e-cigarette device generations



User experience can influence nicotine delivery



Conclusions

Cmax cannot be predicted by the e-liquid nicotine concentration

Nicotine absorption is influenced by a combination of many factors

For questions, please contact karin.jacobson@jti.com

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