

PRELIMINARY EVALUATION OF A COMMERCIALY AVAILABLE ELECTRIC AEROSOL INHALER FROM...

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PRELIMINARY EVALUATION OF A COMMERCIALY AVAILABLE ELECTRIC AEROSOL INHALER FROM CHINA

OBJECTIVE: Provide a preliminary understanding of the design and features of a newly introduced electronic cigar (E-Cigar) that yields nicotine containing aerosol when puffed. Determine aerosol and nicotine yields for the E-Cigar under a set of machine smoking parameters that would help define puffing parameters that could be used for future studies.

SUMMARY: The commercially available electronic cigar from Beijing SBT RUY Technology & Development Co., Ltd, produces a heated aerosol containing tobacco and nicotine. The rechargeable battery is easily replaced, as is the cartridge containing the heating material (propylene glycol) and tobacco extract. The electronics containing the cigar are such that heat is applied only during a puff, generating substantial amount of aerosol. When compared to Eclipse cigarettes on a laboratory smoking machine using a moderate "intense" puffing regimen (22 puffs, 60ml, 3s duration, one puff every 30s), wet total particulate matter and nicotine yields were comparable. For the electronic cigar, one battery charged produced aerosol for almost 400 puffs, while the extract cartridge produced aerosol for almost 25 puffs, the equivalent to more than 25 Eclipse cigarettes.

STATUS: This preliminary study is complete.

KEYWORDS: Electric cigar, pipe, aerosol, nicotine, propylene glycol, yield, PRELIMINARY EVALUATION