PUFF ELECTRONIC CIGARETTE
OFFICIALLY USED IN AN IMPORTANT CLINICAL TESTING
PRESENTED AT THE CONGRESS OF THE ITALIAN SOCIETY OF TOBACCOLOGY

TOXICOLOGICAL ANALYSIS ON THE TOXICITY SHOW THAT
STEAM RELEASED BY THE E-CIG IS COMPARABLE WITH THAT RELEASED BY THE REFERENCE SALINE SOLUTION

The Company SET srl/Puff, provided the electronic cigarettes used in the research called "Witnessed study of the electronic cigarette (e-cig) in reducing the harm from smoking", whose data were presented at the X Congress of the Italian Society of Tobaccology (SITAB), Turin - 14 and 15 November 2014.

The electronic devices and the supplies needed for the experimentation, were provided by Puff for free and kindly offered to contribute to the mechanisms of understanding of the electronic cigarette as a way to reduce the harm deriving from tobacco addiction in a medically assisted process of smoking cessation. The supply of the device is not binding nor conditioning the scientific results of the research.

The results of toxicological analysis have led to interesting conclusions: in the analysed product there are not the glycerol degradation products above the limit of detection (LOD) and the results obtained on the exhaled are entirely comparable with the reference saline evaporated. No positive results were found regarding the presence of contaminants of the glycol-base in the evaporated liquid for electronic cigarette analysed within the limits of the techniques used. It’s reasonable to infer that the data obtained from the device AVATAR and those collected on the physiological saline solution are superimposable.

"These data demonstrate that the electronic cigarette has a negligible toxicity or at least extremely lower than the toxicity of normal cigarettes," said Umberto Roccatti, Chairman of SET srl, holding Company of Puff Cigarette brand. "The 'translation' to the electronic cigarette by a cessation-resistant smoker is a real hope for all smokers frustrated by the difficulty in giving up smoking and for all those who do not begin a quit attempt due to the fear of failure. We are available to discuss in a scientific context, to help understanding all the health and technical problems related to the electronic smoking "concludes Roccatti.

As the understanding the actual toxicity levels of the electronic cigarette is central and the current international scientific literature proposes an articulated and not always consistent focus on this point, for institutional fairness and transparency we think it’s fundamental to make public the technical data related to the products supplied:

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Per informazioni: info@puffcigarette.com – PEC: smartevolutiontrading@pec.it
• Device called "AVATAR" provided for testing: Battery 550 mAh / 3.9 V, W: 7.8, cartomizer with 2.2 ohm resistance, tank capacity 1.5 ml, European conformity certified by Italian laboratory, temperature of the evaporated: 55/65 degrees. The battery has a sufficient range to ensure good continuity of use and the evaporation temperature confirms that there is no combustion.

• Liquids provided called "PUFFIT": contains propylene glycol, as for all e-cigs: USP purity grade, vegetable glycerol: USP purity grade, deionized water. The aromas are produced by Italian companies in compliance with Italian and European regulations 1334/2008. Nicotine is in pharmacological purity grade USP / EP. The determination of the title of nicotine on each batch is laboratory validated through analytical method certified by ACCREDIA, according to UNI CEI EN ISO / IEC 17025: 2005 standards. "General requirements for the accreditation of testing and calibration laboratories", with the number of accreditation no. 0729. The production takes place in the White Room at controlled atmosphere with ISO 9001: 2008 – TUV certifications. We have supplied refills of 4-8-16 mg., depending on the demands of the experimenters.

• Ratings on the toxicity: analysis on every single liquid for the determination of nicotine and the search of PAHs and heavy metals, benzenes and glycols were made. On the exhaled of the AVATAR electronic cigarette several analysis were made on HPLC-DAD / HS - GC MS / ICP - OES. The following heavy metals have been investigated: Ca-Al-Mg-Na-K-As-Ba-Be-Bi-Cd-Co-Cr-Cu-Fe-Hg-Li-Mn-Mo-Ni-Pb sb-Se-Si-Sn-Zn-V. There was also carried out a determination of the volatile organic substances and identification of the decomposition products of glycerol and propylene glycol, completed with negative results.