**Background**

- With legalization of marijuana and increasing popularity of various nicotine products, it is challenging for clinicians to identify patients exposed to nicotine.
- Nicotine negatively affects surgical outcomes, effect of marijuana is less studied, and inadvertent nicotine exposure through marijuana use is under-recognized.

**Objectives**

- To establish normative data on pattern of marijuana use and other nicotine containing products in patients seeking elective plastic surgery procedures.
- Demonstrate that marijuana use history is a risk factor of nicotine exposure.
- Correlate reported use with urine nicotine and cotinine levels.
- Prospectively examine clinical decision on offering surgery and surgical outcome.

**Methods**

- Initial consultation by mid-level (n= 137)
- Informed consented to participate (n= 135)
- 20-q survey & urine sample
- Evaluated by attending surgeon (n= 135)
- Operation performed (n= 84)
- Follow ups (n= 79)
- Clinic notes in EMR
- Clinic notes

**Results**

**Some marijuana users 21%**

**Form of nicotine 32%**

**Conclusion**

- First descriptive data on prevalence of marijuana use and nicotine exposure in the patients seeking plastic surgery consultations in an urban academic practice.
- Marijuana users have elevated nicotine levels, from possible exposure due to co-use of nicotine product.
- Limitations: single institution, inability to demonstrate correlation between marijuana use and complication due to study design, limited detection of significance due to heterogeneity of procedures.

**TABLE 2. Survey-reported use pattern of marijuana and nicotine versus clinical reported use**

<table>
<thead>
<tr>
<th>Survey-reported use pattern</th>
<th>Reported during clinical encounter</th>
<th>Nicotine ng/mL</th>
<th>COTinine ng/mL</th>
<th>OR (95% CI)</th>
<th>p value</th>
<th>25th percentile</th>
<th>75th percentile</th>
<th>Age years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Never Users (n=41)</td>
<td>0.7 (0.000)</td>
<td>177.0 (46.5)</td>
<td>11.5 (9.2)</td>
<td>0.09</td>
<td>0.76</td>
<td>79.9 (±19.9)</td>
<td>31.4 (±26.9)</td>
<td>0.44 (0.15-1.29)</td>
</tr>
<tr>
<td>Active marijuana users (n=18)</td>
<td>7 (0.000)</td>
<td>278.0 (79.9)</td>
<td>27.4 (14.0)</td>
<td>0.1</td>
<td>0.73</td>
<td>32.2 (±14.0)</td>
<td>31.4 (±26.9)</td>
<td>0.09 (0.03-0.32)</td>
</tr>
<tr>
<td>Active nicotine users (n=25)</td>
<td>17 (0.000)</td>
<td>310.0 (84.3)</td>
<td>5 (13.5)</td>
<td>0.2</td>
<td>0.77</td>
<td>31.4 (±26.9)</td>
<td>31.4 (±26.9)</td>
<td>0.09 (0.03-0.32)</td>
</tr>
<tr>
<td>Active marijuana and nicotine users (n=19)</td>
<td>20 (0.000)</td>
<td>399.4 (117.0)</td>
<td>39.2 (14.0)</td>
<td>0.1</td>
<td>0.73</td>
<td>32.2 (±14.0)</td>
<td>31.4 (±26.9)</td>
<td>0.09 (0.03-0.32)</td>
</tr>
</tbody>
</table>

**Table continued...**

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**Patterns of Marijuana Use and Nicotine Exposure in Patients Seeking Elective Aesthetic Procedures**

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**Montefiore**