Update on Emerging Substances of Abuse

Dr. Justice Tettey
Chief
Laboratory and Scientific Section
UNODC Early Warning System

Persistence and change: Shift of the innovation dynamics of NPS towards opioids

Emergence of Synthetic Opioids

High potential harm: emergence of NPS with opioid effects, 2012-2017

Source: UNODC Early Warning Advisory (EWA) on New Psychoactive Substances (NPS), June 2018. Data for 2017 are preliminary.
Response to the most persistent and prevalent NPS

Top UNODC EWA substances reported in...

<table>
<thead>
<tr>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDMB-CHMICA</td>
<td>5F-MDMB-PINACA</td>
<td>5F-MDMB-PINACA</td>
</tr>
<tr>
<td>α-PVP</td>
<td>AB-CHMINACA</td>
<td>U-47700</td>
</tr>
<tr>
<td>25I-NBOMe</td>
<td>MDMB-CHMICA</td>
<td>α-PVP</td>
</tr>
<tr>
<td>25B-NBOMe</td>
<td>Ephylone</td>
<td>FUB-AMB</td>
</tr>
<tr>
<td>25C-NBOMe</td>
<td>FUB-AMB</td>
<td>Ephylone</td>
</tr>
<tr>
<td>Ethylone</td>
<td>4-CMC</td>
<td>ADB-FUBINACA</td>
</tr>
<tr>
<td>AB-CHMINACA</td>
<td>4’-Cl-α-PPP</td>
<td>4-Cl-α-PVP</td>
</tr>
<tr>
<td>5F-APINACA</td>
<td>5-MeO-MIPT</td>
<td>N-ethylhexedrone</td>
</tr>
<tr>
<td>4-CMC</td>
<td>bk-DMBDB</td>
<td>Ketamine</td>
</tr>
<tr>
<td>DOC</td>
<td>Ketamine</td>
<td>bk-DMBDB</td>
</tr>
</tbody>
</table>
Response to the most persistent and prevalent NPS

Top UNODC EWA substances reported in...

<table>
<thead>
<tr>
<th>Key</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>International control</td>
<td>MDMB-CHMICA, α-PVP, 25I-NBOMe, 25B-NBOMe, 25C-NBOMe, Ethylene, AB-CHMINACA, 5F-APINACA, 4-CMC, DOC</td>
<td>5F-MDMB-PINACA, AB-CHMINACA, MDMB-CHMICA, Ephylone, FUB-AMB, 4-CMC, 4’-Cl-α-PPP, 5-MeO-MIPT, bk-DMBDB, Ketamine</td>
<td>5F-MDMB-PINACA, U-47700, α-PVP, FUB-AMB, Ephylone, ADB-FUBINACA, 4-Cl-α-PVP, N-ethylhexedrone, bk-DMBDB</td>
</tr>
<tr>
<td>ECDD List – review</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

UNODC
United Nations Office on Drugs and Crime
NPS considered at 41st WHO ECDD Meeting

Fentanyl analogues
- Cyclopropylfentanyl
- Methoxyacetylfentanyl
- Ortho-fluorofentanyl (2-Fluorofentanyl)
- Parafluoro butyrfentanyl (4-Fluorobutyrfentanyl)
- Paramethoxybutyrfentanyl (4-Methoxybutyrfentanyl)

Synthetic cannabinoids
- ADB-FUBINACA
- FUB-AMB (MMB-FUBINACA, AMB-FUBINACA)
- ADB-CHMINACA
- CUMYL-4CNBINACA

Synthetic cathinone
- N-ethylNorpentylone (Ephylone)
Current and Future Challenges in Implementation

- Identification and detection of substances
- Poly-substance use
- Non-medical use of prescription medicines
- Implementation of the scheduling decisions
- International Cooperation in data collection and sharing
Moving Forward: Addressing the most harmful NPS

UNODC EWA

Global Monitoring

Substance Identification

Risk Communication

Toxicology Portal

Prioritization for International Action

National Legislative Responses

Trend Analysis

Website
www.unodc.org/tox
Thank you!

UNODC - Making the world safer from drugs, crime and terrorism

Email
unodc-lab@un.org

Website
www.unodc.org/lss