## Kansas Drug Category Matrix

<table>
<thead>
<tr>
<th>Major Indicators</th>
<th>CNS Depressants</th>
<th>CNS Stimulants</th>
<th>Hallucinogens</th>
<th>Dissociative Anesthetics</th>
<th>Narcotic Analgesics</th>
<th>Inhalants</th>
<th>Cannabis</th>
</tr>
</thead>
<tbody>
<tr>
<td>HGN</td>
<td>Present</td>
<td>None</td>
<td>None</td>
<td>Present</td>
<td>None</td>
<td>Present</td>
<td>None</td>
</tr>
<tr>
<td>Vertical Gaze Nystagmus</td>
<td>(High dose for that individual)</td>
<td>None</td>
<td>None</td>
<td>Present</td>
<td>None</td>
<td>Present</td>
<td>(High dose for that individual)</td>
</tr>
<tr>
<td>Lack of Convergence</td>
<td>Present</td>
<td>None</td>
<td>None</td>
<td>Present</td>
<td>None</td>
<td>Present</td>
<td>Present</td>
</tr>
<tr>
<td>Pupil Size</td>
<td>Normal (1)</td>
<td>Dilated</td>
<td>Dilated</td>
<td>Normal</td>
<td>Constricted</td>
<td>Normal</td>
<td>Dilated (6)</td>
</tr>
<tr>
<td>Reaction to Light</td>
<td>Slow</td>
<td>Slow</td>
<td>Normal (3)</td>
<td>Normal</td>
<td>Little or None</td>
<td>Slow</td>
<td>Normal</td>
</tr>
<tr>
<td>Pulse Rate</td>
<td>Down (2)</td>
<td>Up</td>
<td>Up</td>
<td>Up</td>
<td>Down</td>
<td>Up</td>
<td>Up</td>
</tr>
<tr>
<td>Blood Pressure</td>
<td>Down</td>
<td>Up</td>
<td>Up</td>
<td>Up</td>
<td>Down</td>
<td>Up/Down (5)</td>
<td>Up</td>
</tr>
<tr>
<td>Body Temperature</td>
<td>Normal</td>
<td>Up</td>
<td>Up</td>
<td>Up</td>
<td>Down</td>
<td>Up/Down/ Normal</td>
<td>Normal</td>
</tr>
<tr>
<td>Muscle Tone</td>
<td>Flaccid</td>
<td>Rigid</td>
<td>Rigid</td>
<td>Rigid</td>
<td>Flaccid</td>
<td>Normal or Placcid</td>
<td>Normal</td>
</tr>
</tbody>
</table>

### General Indicators
- Disoriented
- Droopy eyelids
- Drowsiness
- Drunk-like behavior
- Slow, sluggish reactions
- Thick, slurred speech
- Uncoordinated
- Unsteady walk
- Anxiety
- Body tremors
- Dry mouth
- Euphoric
- Exaggerated reflexes
- Excited
- Eyelid tremors
- Grinding teeth (bruxism)
- Increased alertness
- Insomnia
- Irritability
- Redness to nasal area
- Restlessness
- Runny nose
- TALKATIVE
- Body tenses
- Blank stare
- Confusion
- Chemical odor
- Dilated pupils
- Disoriented
- Early HGN Onset
- Hallucinations
- Incomplete verbal responses
- Increased pain threshold
- "Moon Walking"
- Non-communicative
- Perspiring
- Possibly violent
- Sensory distortions
- Slow, slurred speech
- Warm to touch
- Constricted pupils
- Depressed reflexes
- Drowsiness
- Dry mouth
- Euphoria
- Itching
- Nausea
- "On the Nod"
- Pupils:
- Residual
- Slow, low raspy speech
- Somnolence
- Slow breathing
- Track Marks
- *NOTE
- Tolerant users exhibit relatively little psychomotor impairment
- Blood shot
- Confusion
- Disoriented
- Flushed face
- Intense headaches
- Lack of muscle control
- Odor of substance
- Paranoia
- Possible nausea
- Residue of substance
- Slow, thick, slurred speech
- Unusual

### Duration of Effects
- Ultra-Short: A few minutes
- Short: Up to 5 hours
- Intermediate: 6-8 hours
- Long: 8-14 hours
- Cocaine: 5-90 minutes
- Amphetamines: 4-8 hours
- Meth-amphetamine: 12 hours plus
- Duration varies widely from one hallucinogen to another
- LSD: 10-12 hours
- Psilocybin: 2-3 hours
- PCP Onset: 1-5 minutes
- Peak Effects: 15-30 minutes
- Exhibit effects up to 4-6 hours
- DXM Onset: 15-30 min.
- Effects 3-6 hours
- Heroin: 4-6 hours
- Methadone: Up to 24 hours
- Others: Vary
- 6-8 hours for most volatile solvents
- Anesthetic gases & Aerosols - very short duration
- 2-3 hours exhibit and feels effects
- (impairment may last up to 24 hours, without awareness of effect.)

### Usual Methods of Ingestion
- Injected (occasionally)
- Insufflation
- Oral
- Insufflation
- Injected
- Oral
- Smoked
- Eye drops
- Injected
- Insufflation
- Oral
- Smoked
- Injected
- Insufflation
- Oral
- Smoked
- Insufflation
- Oral
- Transdermal

### Overdose Signs
- Clammy skin
- Coma
- Dilated pupils
- Rapid, weak pulse
- Shallow breathing
- Agitation
- Hallucinations
- Increased body temperature
- Long intense "trip"
- Cold, clammy skin
- Coma
- Convulsions
- Slow, shallow breathing
- Long intense "trip"
- Cold, clammy skin
- Coma
- Convulsions
- Slow, shallow breathing
- Cold, clammy skin
- Coma
- Convulsions
- Slow, shallow breathing
- Cardiac arrhythmia
- Possible psychosis
- Respiration ceases
- Severe nausea or vomiting
- Risk of death
- Excessive vomiting
- Fatigue
- Paranoia
- Possible psychosis

### Footnote:
These indicators are the most consistent with the drug categories. Keep in mind that there may be variations due to individual reaction, dose taken and drug interactions.

1. SOMA, Quaaludes and some Antidepressants usually dilate pupils
2. Quaaludes, ETOH and some Antidepressants may elevate
3. Certain psychadelic amphetamines may cause slowing
4. Normal, but may be dilated
5. Down with anesthetic gases, up with volatile solvents and aerosols
6. Pupil size possibly normal

### Normal Ranges
- **Pulse** – 60-90 beats per minute
  - Pulse Size – Room Light - 2.5-5.0mm
    - Near Total Darkness - 5.0-8.5mm
    - Direct Light - 2.0-4.5mm
- **Blood Pressure** – 120-140 Systolic / 70-90 Diastolic
- **Body Temperature** – 98.6 +/- 1 degree

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School Bus Safety Unit

Kansas leads the world in the success of each student.

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