Winning the War Against High-Risk Impaired Driving through Assessment-Driven Supervision

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Overview

• Impaired driving problem
• Risk-Needs-Responsivity
• Screening and assessment
• Impaired driver characteristics
• Impaired Driving Assessment (IDA)
• Computerized Assessment and Referral System (CARS)
• Comprehensive approach
Alcohol-Impaired Driving Fatalities 1982-2016

TOTAL ALCOHOL-IMPAIRED DRIVING FATALITIES

Drunk driving fatalities have declined 50% from 1982 to 2016.

Source: NHTSA/FARS, 10/17
<table>
<thead>
<tr>
<th>Year</th>
<th>Alcohol-Impaired Driving Fatalities (BAC=.08+)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>230 (28%)</td>
</tr>
<tr>
<td>2013</td>
<td>221 (26%)</td>
</tr>
<tr>
<td>2014</td>
<td>200 (26%)</td>
</tr>
<tr>
<td>2015</td>
<td>269 (30%)</td>
</tr>
<tr>
<td>2016</td>
<td>232 (24%)</td>
</tr>
</tbody>
</table>
4,700,000 individuals under community supervision in 2015

15% of this probation population have been convicted of DUIs

8% of the probation population have been convicted of multiple DUIs

Approximately 2/3 of individuals under community supervision are drug or alcohol-involved
Approximately 25% of individuals arrested and 30% of individuals convicted of DUI are repeat offenders.

Contact with the criminal justice system in and of itself, does not deter at least 1/4 of all offenders.
Who is most likely to recidivate?
Criminogenic risk factors

- History of anti-social behavior
- Anti-social cognitions
- Anti-social personality pattern
- Anti-social associates
- Family/marital discord
- Leisure/recreation
- Substance abuse
- School/work
Risk/Need Matrix

- **HIGH RISK**
  - HIGH NEED
  - LOW NEED
- **LOW RISK**
  - HIGH NEED
  - LOW NEED
Mental health?

While not a criminogenic need, it is imperative that mental health issues be identified and treated in order to adequately address other risk factors.
Risk-Need-Responsivity (RNR)

Risk Principle

Needs Principle

Responsivity Principle
Responsivity Principle

• Treatment programs/interventions should be delivered in a style and mode that is consistent with the ability and learning style of individual offenders.

• It is important to take into consideration other factors when tailoring treatment including: gender, ethnicity, culture, attitudes/motivation, etc.
  
  • Employ gender and culturally-sensitive approaches when appropriate

• Be cognizant of trauma issues
What is the best fit?
Putting the pieces together

Risk level → Substance use disorder(s) → Mental health disorder(s) → Trauma issues
SCREENING & ASSESSMENT
Screening

• Screening is the first step in the process of determining whether a DUI offender should be referred for treatment.

• At this stage, offenders who do not have substance or mental health issues are identified and those who may have issues can be sent for a more in-depth assessment.

• Essentially, screening is a way to strategically target limited resources by separating offenders into different categories (i.e., those who do not have an alcohol/mental health problem and those who likely do).

• The screening process in and of itself can also serve as a brief intervention as it requires the individual to begin to think about their use patterns and whether they are problematic.
Screening - who needs further assessment?
Where should we devote our resources?
Assessment

• After the screening process is completed, offenders who show signs of substance or mental health issues can be referred for an assessment.

• An assessment tends to be more formal than screening and these instruments are standardized, comprehensive, and explore individual issues in-depth.

• In contrast with screening, a formal assessment process takes longer to complete (it can take several hours) and is typically administered by a trained clinician or professional.

• This second step is meant to evaluate not only the presence of a substance use disorder (alcohol and/or drugs) but its extent and severity.
Assessment

• Ideally, screening and assessment would occur at the beginning of the process (such as during the pre-trial stage).
• The results can then be used to inform:
  • Sentencing decisions
  • Case management plans
  • Supervision levels
  • Treatment referrals/plans
• It is important to note that assessments can be repeated at multiple junctures throughout an offender’s involvement in the criminal justice system to identify progress and to inform changes to existing plans as needed.
Assessment can occur at multiple intercepts:

- Post-arrest
- Pre-trial
- Pre-sentencing
- Post-conviction
- Community supervision
- Treatment program
## Common assessment instruments

<table>
<thead>
<tr>
<th>Alcohol Dependence Scale (ADS)</th>
<th>Risk and Needs Triage (RANT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohol Severity Index (ASI)</td>
<td>Correctional Offender Management Profile for Alternative Sanctions (COMPAS)</td>
</tr>
<tr>
<td>Alcohol Use Disorder Identification Test (AUDIT)</td>
<td>Ohio Risk Assessment System (ORAS)</td>
</tr>
<tr>
<td>Inventory of Drug-Taking Situations (IDTS)</td>
<td>Static Risk and Offender Needs Guide (STRONG)</td>
</tr>
<tr>
<td>Drug Abuse Screening Test (DAST)</td>
<td>Texas Risk Assessment System (TRAS)</td>
</tr>
<tr>
<td>Michigan Alcoholism Screening Test (MAST)</td>
<td>Level of Service Inventory-Revised (LSI-R)</td>
</tr>
<tr>
<td>Substance Abuse Subtle Screening Inventory (SASSI)</td>
<td>Adverse Childhood Experience (ACE) Questionnaire</td>
</tr>
<tr>
<td>Research Institute on Addiction Self Inventory (RIASI)</td>
<td>Trauma Symptom Inventory (TSI)</td>
</tr>
</tbody>
</table>
Limitations of instruments

• Majority of instruments are not designed for or validated among DUI offender population.

• Using traditional assessments, DUI offenders are *commonly identified as low risk due to a lack of criminogenic factors.*

• DUI offenders often have unique needs and are resistant to change on account of limited insight.

• Recognition that specialized instruments should be created to accurately assess risk and needs of impaired drivers.
Which instrument should I use?

• When selecting instruments, take the following into consideration:
  • Validated through research
  • Reliability; predictive value
  • Standardized
  • Appropriate for the target population
  • Easy to use
  • Time
  • Informs decision-making
  • Cost
IMPAIRED DRIVERS:
NOT THE USUAL SUSPECTS
Impaired driver profiles

• Predominantly male (70-80%)
• Between the ages of 20-45; majority between ages 20-30
• Employed/educated at a higher rate than other offenders
• High-BAC levels (.15>)
• Often drink more per occasion and consume more alcohol than the general population; majority are binge drinkers
• Often have substance use disorders
• Have personality and psychosocial factors that increase risk of offending: irritability, aggression, thrill-seeking, impulsiveness, external locus of control (blaming others), anti-authoritarian attitudes
Repeat impaired drivers

• Overwhelmingly male (90%); ages 20-45.
• More often single, separated, or divorced.
• Tend to have lower levels of education and income and higher levels of unemployment compared to first offenders.
• More likely to have BACs exceeding .20 or refuse to provide a chemical sample.
• Age of onset of drinking, family history, and alcohol misuse are risk factors.
Repeat impaired drivers

- Likely to have cognitive impairments (executive cognitive functioning) due to long-term alcohol dependence.
- Repeat DUI offenders are more likely to have a higher disregard for authority and show greater indications of anti-social personality characteristics.
- May result in lack of motivation; implications for engagement in treatment.
Co-occurring disorders

• While research has shown that impaired drivers frequently have a substance use disorder, many of these offenders also have a psychiatric condition.

• The presence of a substance use disorder actually increases an individual’s likelihood of having other psychiatric disorders.

• Co-occurring disorders are often difficult to diagnose as symptoms can be complex and the severity of the disorders can vary.
Co-occurring disorders

• In a study of repeat DUI offenders, it was found that 45% had a lifetime major mental disorder.

• Another study (Shaffer et al. 2007) that examined the prevalence of these disorders by gender found that 50% of female drunk drivers and 33% of male drunk drivers have at least one psychiatric disorder.

• Mental health issues often linked to impaired drivers include:
  • Depression, bipolar disorder, conduct disorder, anxiety, anti-social personality disorder, and post-traumatic stress disorder (PTSD).
Defining trauma

Trauma (n) /ˈtroumə, ˈtrômə/ - the psychological response to adverse events when they are experienced as physically or emotionally harmful or threatening and have lasting adverse effects on the individual’s functioning and physical, social, emotional, or spiritual well-being.
Adverse childhood experiences

• Traumatic experiences in childhood can affect the health and behavior of adults by:
  • Increasing conventional risk factors and behaviors that often are used to cope with the pain associated with trauma.
  • Affecting the developing brain and body, causing regulation of the stress response.
• Can include economic hardship, domestic violence, divorce, physical/sexual/emotional abuse, substance abuse, mental illness, incarceration of a parent, abandonment, etc.
Trauma and the justice system

• Trauma is almost a universal experience among people who use public mental health, substance abuse, and social services, as well as those who are justice-involved or homeless (Freeman & Lauter, 2015).

• Often, individuals may not recognize the connection between past traumatic events and their effects on daily functioning.

• Trauma survivors are not always likely to seek treatment specifically for trauma-related symptoms.

• The experiences that trauma survivors have in the justice system often result in further traumatization.
Need for mental health assessment

• Very high level of psychiatric co-morbidity.
• Mental health issues linked to recidivism.
• Treatment traditionally consisted of alcohol education/interventions that focus solely on substance use.
• Screening or assessment for mental health issues is not always available/Performed.
• DUI treatment providers rarely have training/experience to identify mental health issues among their clients.
DUI offenders are unique

- Often lack an extensive criminal history.
- High degree of denial:
  - Drinking alcohol is not illegal, highly prevalent, and encouraged in society
  - Tend to be employed and may have a stable social network
  - Do not view themselves as criminals
- Repeatedly engage in behavior that is dangerous.

Result = DUI offenders tend to score lower on traditional risk assessments
INNOVATION: NEW ASSESSMENT INSTRUMENTS
Impaired Driving Assessment (IDA)
Major Risk Areas of DUI Recidivism

1. Prior involvement in the justice system specifically related to impaired driving
2. Prior non-DWI involvement in the justice system
3. Prior involvement with alcohol and other drugs (AOD)
4. Mental health and mood adjustment problems
5. Resistance to and non-compliance with current and past involvement in the justice system
Goals of IDA

1. Provide guidelines for identifying effective interventions and supervision approaches that reduce the risk of negative outcomes in treatment and community supervision.

2. Provide preliminary guidelines for service needs for DUI clients.

3. Estimate the level of responsivity of clients to supervision and to DUI and AOD education and treatment services.

4. Identify the degree to which the client’s DUI has jeopardized traffic safety and to address this in the supervision plan.
IDA Components

Self-Report (SR)
34 questions
- Mental health and mood adjustment;
- AOD involvement and disruption;
- Social and legal non-conformity; and
- Acknowledgment of problem behaviors and motivation to seek help for these problems.

Evaluator Report (ER)
11 questions
- Past DWI/non-DWI involvement in judicial system;
- Prior education and treatment episodes;
- Past response to DWI education and/or treatment; and
- Current supervision and services status.
PSYCHOSOCIAL
Items 1-8

AOD INVOLVEMENT
Items 9-17

LEGAL NON-CONFORMITY
Items 18-25

ACCEPTANCE/MOTIVATION
Items 26-29, 32, 34

DEFENSIVENESS
Reverse-Scored 13 SR Items

SR GENERAL
23 SR Items

ER GENERAL
9 ER Items

DWI RISK-SUPERVISION ESTIMATE
31 SR and ER Items, Age, Marital
Self-report questions (e.g.)

- Do you have up or down moods?
- Do you get nervous, tense, or worry about things?
- How many times in your life have you been drunk or intoxicated on alcohol?
- How many times have you received treatment for mental/emotional problems?
- How serious of a problem is your DWI for you?
Evaluator report (e.g.)

• # of non-DWI involvements with criminal justice system
• # of DWI/AOD education program episodes
• # of treatment program episodes
• Past interlock use
• Past electronic monitoring use
• Level of supervision, treatment, and expected compliance
Utilization and guidelines

1. What are we trying to accomplish?
   • Estimate the probability of negative outcomes and to re-offend
   • Estimate of supervision and service needs

2. Does the IDA only estimate risk?
   • Includes a resource for estimating service needs, responsivity to interventions, and traffic safety

3. Should assessment be an evolving process?
   • IDA is an initial screener, yet provides guidelines to proceed
   • Need more comprehensive assessment

4. Should the IDA be used as a sole basis for making decisions?
   • All sources of information are to be used—client/record
   • Final decisions are made by the evaluator and/or court
Configural Analysis 1

Very “low” scores across all of the four SR basic scales, “high” on DEFENSIVENESS, and “low-medium” or higher on ER GENERAL indicates defensiveness and need to address this with the client in an interview.

<table>
<thead>
<tr>
<th>SCALE NAME</th>
<th>RAW SCORE</th>
<th>Low</th>
<th>Low-Medium</th>
<th>High-Medium</th>
<th>High</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>1. PSYCHOSOCIAL</td>
<td>1</td>
<td><strong>2</strong></td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>2. AOD INVOLVEMENT</td>
<td>5</td>
<td><strong>6</strong></td>
<td>7</td>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>3. LEGAL NON-CONFORM</td>
<td>1</td>
<td><strong>2</strong></td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>4. ACCEPTANCE/MOTIVATE</td>
<td>4</td>
<td><strong>6</strong></td>
<td>7</td>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>5. DEFENSIVENESS</td>
<td>9</td>
<td><strong>9</strong></td>
<td>10</td>
<td>11</td>
<td>12</td>
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<tr>
<td>6. SR GENERAL</td>
<td>0 4 6 7</td>
<td>8 9</td>
<td>10</td>
<td>11 12 13</td>
<td>14</td>
</tr>
<tr>
<td>7. ER GENERAL</td>
<td>6</td>
<td><strong>7</strong></td>
<td>8 9 10</td>
<td>11 13 25</td>
<td></td>
</tr>
<tr>
<td>8. DWI RISK-SUPERVISE EST.</td>
<td>0 9 10</td>
<td>11 12 13</td>
<td>14 15 16</td>
<td>17 18 19 20 21 22</td>
<td>23 24 25 27 29 30 32 35 36 39 42 43 50 96</td>
</tr>
</tbody>
</table>

IDA NORMATIVE SAMPLE   N=922

PERCENTILE
“High-medium” to “high” on the four SR scales indicates need to address these conditions in treatment and monitoring the progress in addressing these problems their potential re-occurrence during community supervision.

### Configural Analysis 2

<table>
<thead>
<tr>
<th>SCALE NAME</th>
<th>RAW SCORE</th>
<th>LOW</th>
<th>LOW-MEDIUM</th>
<th>HIGH-MEDIUM</th>
<th>HIGH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. PSYCHOSOCIAL</td>
<td>8</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>2. AOD INVOLVEMENT</td>
<td>22</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>3. LEGAL NON-CONFORM</td>
<td>9</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
</tr>
<tr>
<td>4. ACCEPTANCE/MOTIVATE</td>
<td>11</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>5. DEFENSIVENESS</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>6. SR GENERAL</td>
<td>0 4 6 7 8 9 10</td>
<td>14 15 16</td>
<td>17 18 19 20 21 22 24 25 27 29</td>
<td>30 33 37 38 43 77</td>
<td></td>
</tr>
<tr>
<td>7. ER GENERAL</td>
<td>0 1 2 3 4 5 6 7 8 9 10</td>
<td>11 13 25</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. DWI RISK-SUPervise EST.</td>
<td>0 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 29 30 32 35 36 39 42 43 50 96</td>
<td>99</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

IDA NORMATIVE SAMPLE N=922

PERCENTILE
Considerations for building your case plan

• What are your resources?
• What is your response to risk?
• Does your client know his assessment results?
• What are the limits “to your power”? 
More information about IDA

• Currently available in *paper/pen* format

• Individuals *must* undergo training

• New project underway with NHTSA:
  • Online training course
  • Computerized version of the tool

• Expand for *widespread* public use
Computerized Assessment and Referral System
Look beneath the surface
Development of CARS

• CARS was developed by a team of researchers from Cambridge Health Alliance, a teaching affiliate of Harvard Medical School.
  • Initial grant funding was provided by NIAAA; Responsibility.org continues to fund CARS research and implementation.
• The goal was to create an assessment tool specifically for a DUI offender population that fills the mental health void that exists with traditional instruments.
Development of CARS

• CARS is a standardized mental health assessment that is adapted from the World Health Organization’s Composite International Diagnostic Interview (CIDI).

• Developed by Dr. Ron Kessler and his team at Harvard, the CIDI is a structured interview for psychiatric disorders.
  • Internationally validated instrument
  • Used extensively in research including the National Comorbidity Survey
What is CARS?

Mental health assessment

- Diagnostic report generator
- Referral database
- Brief intervention
- Case management
What is CARS?

• Diagnostic report generator that gives providers and clients:
  • Immediate diagnostic information for up to 20 DSM-IV Axis I disorders (onset, recency, persistence).
  • Geographically and individually targeted referrals to treatment services based on the outcomes of the assessment.

Substance dependence

Mental health issues

Intervention
How does CARS work?

• CARS is a completely electronic assessment tool. It is available as free open source software.

• There are three versions of the CARS tool that can be used:
  - Interviewer-administered Screener
  - Self-administered Screener
  - Full Assessment
<table>
<thead>
<tr>
<th>CARS comprehensive mental health screener domains</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panic disorder</td>
</tr>
<tr>
<td>Intermittent explosive disorder</td>
</tr>
<tr>
<td>Depression</td>
</tr>
<tr>
<td>Mania/bipolar disorder</td>
</tr>
<tr>
<td>Oppositional defiant disorder</td>
</tr>
<tr>
<td>Alcohol use disorder</td>
</tr>
<tr>
<td>Psychosocial stressors</td>
</tr>
</tbody>
</table>
How does CARS work?

### CARS Module Selection Options

<table>
<thead>
<tr>
<th>Module Name</th>
<th>Selection</th>
<th>Module Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Anxiety Disorder</td>
<td>☑️</td>
<td>◢ 12 Month ◡ Lifetime</td>
</tr>
<tr>
<td>Personality Disorders</td>
<td>☐️</td>
<td>◢ 12 Month ◡ Lifetime</td>
</tr>
<tr>
<td>Depression</td>
<td>☑️</td>
<td>◢ 12 Month ◢ Lifetime</td>
</tr>
<tr>
<td>Mania</td>
<td>☑️</td>
<td>◢ 12 Month ◢ Lifetime</td>
</tr>
<tr>
<td>Suicide</td>
<td>☑️</td>
<td>◢ 12 Month ◡ Lifetime</td>
</tr>
<tr>
<td>Panic Disorder</td>
<td>☑️</td>
<td>◢ 12 Month ◡ Lifetime</td>
</tr>
</tbody>
</table>

*Update*
How does CARS work?

Let me review. You had quite a few traumatic experiences: you were in combat, were kidnapped, and experienced a major natural disaster. Did you experience any of the following problems in relation to these traumatic experiences at the time of the experience?

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT32a. Were you terrified or very frightened at the time?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PT32b. Did you feel helpless?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PT32c. Did you feel shocked or horrified?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PT32d. Did you feel numb?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Evaluating Erin’s mental health
How does CARS work?

• Individual diagnostic reports have been programmed to provide information about the mental health disorders for which a person qualifies or is at risk, as well as a summary of bio-psycho-social risk factors.

• The CARS tool includes a section on DUI behavior.
  • The data obtained from the questions in this section is integrated with other risk factors to generate an overall DUI recidivism risk score.
  • A graphic is generated as part of the outcomes report that indicates where an individual is within a range of low to very high risk.
CARS report

Client: Kat
Gender: Female
Age: 24

CARS Assessment Progress

This graphic represents how much of the CARS assessment Kat has completed.

Mania

Screener Module
CARS Diagnostic Case Summary

Bob is a 38 year-old woman who has accumulated 0 DUI arrests during her lifetime. She has met full criteria for 1 co-occurring mental health problem (see Table 1) and should receive a referral for additional professional mental health screening (regional referrals are listed on the end of the report)

Table 1. Mental Health Profile

<table>
<thead>
<tr>
<th></th>
<th>Met Criteria</th>
<th>Subclinical Symptoms</th>
<th>Screened into but not tested</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Alcohol Abuse</strong></td>
<td>PY</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Obsessive Compulsive Disorder</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Psychosis</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Conduct Disorder</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PY = Past Year, LT = Lifetime

*Other disorders screened: PTSD, GAD, Alcohol Dependence, Substance Abuse, Substance Dependence, Personality Disorders, Major Depressive Disorder, Bipolar I, Bipolar II, Panic Disorder, Social Phobia, Intermittent Explosive Disorder, Tobacco Use, Gambling, Eating Disorders, ADHD

Bob is at high risk for another DUI. Listed below are some of the factors that create this risk for Bob.

DUI Recidivism Risk Factors

- Alcohol Abuse
- Endorsed binge drinking

Based on Bob’s mental health profile, she should consider seeking additional professional screening from the resources listed at the end of the report.
Bridging the gap...

• Unlike traditional assessments, CARS has a built-in referral system.
• CARS has been designed to include a list of individually-targeted referrals at the end of each report based on an individual’s issues and zip code.
• Before CARS can be implemented, the referral list must be populated with treatment services that are available within that jurisdiction.
CARS referrals

Client: Bob  
Gender: Female  
Age: 38

Regional Referral Information

Based off Bob’s interview and the zip code provided (01060), referrals to the 5 closest regional resources for additional mental health screening and treatment are listed below. In addition to these options, Bob also might consider utilizing other relapse and recovery resources, such as AA or online recovery and recidivism prevention programs.

Clinical Support Options
10 Main Street, Florence, MA 01062
(413) 582-0471
http://www.csoinc.org/
Mental Health Treatment: Yes
Substance Use Treatment: Yes
Public Transportation Options: (N/A)

Windhorse Integrative Mental Health (a therapeutic community)
211 North St, Northampton, MA 01060
(413) 586-0207
http://www.windhorseimh.org/
Mental Health Treatment: Yes
Substance Use Treatment: Yes
Public Transportation Options: PVTA Bus - 39/39E/B43/M40 - Sheldon Field (W)
PVTA Bus - R44 - 54 Industrial Drive
## Care Types:

<table>
<thead>
<tr>
<th>Service</th>
<th>Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential</td>
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<tr>
<td>Outpatient</td>
<td>Yes</td>
</tr>
<tr>
<td>Detoxification</td>
<td>N/A</td>
</tr>
<tr>
<td>Emergency Services</td>
<td>N/A</td>
</tr>
<tr>
<td>Transitional</td>
<td>N/A</td>
</tr>
</tbody>
</table>

## Payment Options:

<table>
<thead>
<tr>
<th>Option</th>
<th>Available</th>
<th>Payment Method</th>
<th>Available</th>
</tr>
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<tbody>
<tr>
<td>Accepts Insurance</td>
<td>Yes</td>
<td>Medicaid</td>
<td>Yes</td>
</tr>
<tr>
<td>Medicare</td>
<td>Yes</td>
<td>Slide Scale</td>
<td>N/A</td>
</tr>
<tr>
<td>Free Program</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Special Population:

<table>
<thead>
<tr>
<th>Population</th>
<th>Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult</td>
<td>Yes</td>
</tr>
<tr>
<td>Youth</td>
<td>N/A</td>
</tr>
<tr>
<td>Family Only</td>
<td>N/A</td>
</tr>
<tr>
<td>Homeless Only</td>
<td>N/A</td>
</tr>
</tbody>
</table>

## Specialization:

<table>
<thead>
<tr>
<th>Specialty</th>
<th>Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trauma</td>
<td>N/A</td>
</tr>
<tr>
<td>Anxiety</td>
<td>N/A</td>
</tr>
<tr>
<td>Behavioral issues</td>
<td>N/A</td>
</tr>
<tr>
<td>Developmental Disabilities</td>
<td>N/A</td>
</tr>
<tr>
<td>Additional Specialities</td>
<td>Disabilities; brain injury; substance abuse; major mental</td>
</tr>
</tbody>
</table>

## Other languages spoken:

<table>
<thead>
<tr>
<th>Language</th>
<th>Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional languages</td>
<td>N/A</td>
</tr>
</tbody>
</table>
2016 pilot implementation

• Following the completion of both the usability study and RCTs, multiple pilot programs were launched in the summer of 2016 to identify ways to:
  • Successfully implement CARS at various intercepts in the DUI system;
  • Improve the efficiency and user-friendliness of the software; and
  • Address any technical challenges in advance of the national launch.

• Six programs were selected:
  • IMPACT, Inc. – Milwaukee, Wisconsin
  • Isanti County Probation Department – Cambridge, Minnesota
  • Lackawanna-Susquehanna Office of Drug and Alcohol Programs – Scranton, Pennsylvania
  • Laramie County DUI Court – Laramie, Wyoming
  • San Joaquin DUI Monitoring Court – Stockton, California
  • South St. Louis County DWI Court and Probation Department – Duluth, Minnesota
2016 Pilot Sites
IMPLEMENTATION PROCESS EVALUATION

Erin Holmes & Maureen Balcer, Foundation for Advancing Alcohol Responsibility
Future considerations

• Develop a Spanish version of CARS.
• Develop a non-DUI specific version of CARS.
• Update CARS to reflect DSM-V changes.
• Consider developing a web-based platform instead of utilizing software.
• Create a CARS mobile application.
Benefits of CARS

• Provides immediate diagnostic information for up to 20 major psychiatric disorders.
• Provides geographically and individually targeted referrals to appropriate treatment services.
• Generates user-friendly reports at the click of a button.
• Informs supervision and treatment decisions.
• Runs on free open source software.
• Can be used by non-clinicians.
• Applicable in a number of settings.
National roll-out

• CARS was launched for general use in June 2017.
• Available to any court, probation department, or program free of cost.
• Online web portal for downloads and training: www.carstrainingcenter.org
Revolutionizing DUI Assessment
Computerized Assessment and Referral System (CARS)

What is CARS?

CARS is a report generator that provides immediate diagnostic information for up to 15 major psychiatric disorders (e.g., depression, anxiety disorder, post-traumatic stress disorder, bipolar disorder).

CARS is designed to identify mental health concerns in addition to substance use disorders that influence DUI behavior.

CARS provides referrals to treatment services based on an individual's diagnostic information and ZIP code.

CARS is adapted from the World Health Organization's Composite International Diagnostic Interview (CIDI), an internationally validated assessment.¹

People who have been convicted of DUI represent a population with an extremely high rate of substance use disorders.² ³

Research has found that 45% of repeat drunk drivers have a major mental health disorder in addition to alcohol or drug-related disorders.⁴

DUI offenders who suffer from psychiatric disorders other than alcohol or drug use disorders re-offend more, and more quickly, than others.⁵

How CARS works

Asks about signs and symptoms of mental health issues both within the past year and lifetime.

Identifies specific mental health disorders for which an offender is at-risk.

Generates a report that informs the user about a client's treatment needs and provides appropriate referrals.

Can be used in three formats:

- **CARS Screener**
  - 15-60 minutes
- **Self-Administered CARS Screener**
  - 15-60 minutes
- **Full CARS Assessment**
  - 1-2 hours

Benefits of CARS

- Developed specifically for a DUI offender population
- Informs supervision and treatment decisions
- Provides immediate personalized output and referrals
- User-friendly reports at the click of a button
- Runs on free open-source software
- Can be used by non-clinicians
- Applicable in a number of settings

Current efficacy study

- Randomized control trials at two Massachusetts DUI treatment programs
- Six-month follow-up

Study will:
- Evaluate full implementation of CARS
- Test the validity of the CARS Screener
- Determine whether the CARS Screener can be self-administered
- Investigate use of CARS as a brief intervention
- Examine associations between psychiatric co-morbidity and outcomes among DUI offenders
- Preliminary results in 2015

For further information please contact: erin.holmes@responsibility.org or visit Responsibility.org/CARS

Footnotes:
IDA vs. CARS?
Now what?

• Who will be responsible for administering the assessment instrument?

• Will you administer the IDA/CARS at *pre-* or *post-*sentence?

• Will you use with *all* or just *repeat* offenders?

• What *policy* changes will you have to make?

• What *key stakeholders* need to be advised?

• When will you *implement*?
Utilize all tools available

• Screening/assessment for substance use and mental health disorders
• Refer to appropriate treatment interventions that are tailored to individuals’ risk level and specific needs
• Treat co-occurring disorders concurrently
• Use technology to monitor compliance and progress (e.g., ignition interlocks, continuous alcohol monitoring, random drug testing, etc.)
• Hold offenders accountable for non-compliance
• Apply swift, certain, and meaningful sanctions
QUESTIONS?
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