Teachable moments
Some say the addict must ‘hit bottom’ before making the changes necessary for sobriety. You can help the addict define where that bottom will be.

Mrs. R, age 43, is agitated and confused, and her husband has brought her to the hospital’s emergency department. He reports that she has a history of denying alcohol abuse and told him during an argument yesterday that she could stop drinking any time she wanted to.

You are the psychiatrist on call. As the emergency medical team treats the apparent withdrawal episode, you tell Mrs. R’s husband: “We’ll take good care of your wife because alcohol withdrawal is dangerous and painful. But after detoxification, it’s important to prevent her from getting sick again. She needs to enter a rehabilitation program, and then outpatient treatment. When she comes around, maybe you could remind her about how much pain she was in and bring her to the rehab center yourself. . . .”

Addicts face potentially life-threatening consequences from their behavior, which—when handled skillfully in the emergency room—can start them on the road to recovery. Some say the addict must “hit bottom” before making the changes necessary for a sober life. You can help the addict define his or her bottom as an unpleasant trip to the hospital—instead of death or loss of a job or spouse—by realistically assessing the physical consequences of continued drug or alcohol use (Table 1).
Addiction crises bring more than a half-million Americans to hospital emergency rooms each year (Box 1, Figure). Addiction to any substance greatly increases the risk for suicide. An alcohol-dependent person is 32 times more likely to commit suicide than the nonaddicted individual. And the suicidal addict often has the means to end his life when he feels most suicidal.

Diagnosing and treating suicidality require a high degree of vigilance for subtle clues of suicidal behavior. Because suicide risk has no pathognomonic signs, clinical judgment is required. Though addiction itself can be viewed as a slow form of suicide, signs that suggest an immediate threat to life include:

- the addict’s assertion that he intends to kill himself
- serious comorbid mental illness (psychosis, depression)
- prior suicide attempts
- hopelessness.

Some addicts feign suicidal thoughts or use them as a cry for help. Any mention or hint regarding suicide marks a severely disturbed patient who needs a complete psychiatric evaluation. This includes a formal mental status examination and exploring whether the patient has access to lethal means.

We cannot consistently predict our patients’ behavior, but a careful examination often reveals the seriousness of a suicidal threat, method, and intention, as well as support sys-
behaviors or intentions remain one of the few legal justifications for involuntary hospitalization.

**Accidental overdose**

An accidental overdose provides another teachable moment to convince the addict to enter treatment. Patients who try to make a statement by overdosing on a substance they consider benign, such as oxycodone with acetaminophen, can inadvertently kill or badly injure themselves. Conversely, patients who clearly intend to harm themselves may misconstrue a substance’s lethality and ingest a large amount of a relatively nonlethal substance such as clonazepam. Either case:

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Emphasize the seriousness of suicidal thoughts to the patient, his family, third-party payers, and whomever else has influence in bringing the patient to treatment. Suicidal

tems for keeping the patient safe. Consulting with a colleague can offer a “fresh look,” allowing two clinicians to balance the need for treatment against concerns such as bed availability and possible malingering.

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<table>
<thead>
<tr>
<th>Addictive substance</th>
<th>Intoxication symptoms</th>
<th>Withdrawal symptoms</th>
<th>Longer-term problems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohol</td>
<td>Slowed respiration, impaired thinking and coordination, coma, death</td>
<td>Seizures, death</td>
<td>Dementia, liver damage</td>
</tr>
<tr>
<td>Barbiturates</td>
<td>Slowed respiration, impaired thinking and coordination, coma, death</td>
<td>Seizures</td>
<td>Rebound pain, hepatotoxicity</td>
</tr>
<tr>
<td>Benzodiazepines</td>
<td>Slowed respiration, impaired thinking and coordination</td>
<td>Seizures</td>
<td></td>
</tr>
<tr>
<td>Hallucinogens</td>
<td>Paranoia, impaired thinking and coordination</td>
<td></td>
<td>Amotivational syndrome; possession is grounds for arrest</td>
</tr>
<tr>
<td>MDMA (‘ecstasy’)</td>
<td>Impaired thinking and coordination, coma, death</td>
<td></td>
<td>Cognitive impairment; possession is grounds for arrest</td>
</tr>
<tr>
<td>Nicotine</td>
<td>Tachycardia, arrhythmia</td>
<td></td>
<td>Lung cancer, chronic-obstructive pulmonary disease</td>
</tr>
<tr>
<td>Opiates</td>
<td>Slowed respiration, impaired thinking and coordination, coma, death</td>
<td></td>
<td>Skin infections, HIV, hepatitis (if injected); possession is grounds for arrest</td>
</tr>
<tr>
<td>Phencyclidine</td>
<td>Impaired thinking and coordination, violent behavior</td>
<td></td>
<td>Possession is grounds for arrest</td>
</tr>
<tr>
<td>Stimulants</td>
<td>Impaired thinking and coordination, myocardial infarction, stroke</td>
<td></td>
<td>Nasal damage (if snorted); skin infections, HIV, hepatitis (if injected); possession is grounds for arrest</td>
</tr>
<tr>
<td>Inhalants</td>
<td>Impaired thinking and coordination, headache, coma</td>
<td></td>
<td>Neurologic damage</td>
</tr>
</tbody>
</table>
• is a true psychiatric emergency
• bodes poorly for the patient’s future
• provides a strong rationale for addiction treatment.

Whether the means or the intent were deadly or benign, the overdose can be used as a convincing argument for treatment.

**Intoxication**

Intoxication with any addictive substance impairs judgment and increases the danger of injury. Specific medical dangers include alcohol’s powerful CNS depression in the nontolerant individual and the possibility for heart attack and stroke in the cocaine-intoxicated patient.

Attempts to convince an intoxicated person of the need for addiction treatment are usually futile. But the acute treatment represents a golden opportunity to reach out to friends and family members, who often escort the intoxicated addict to the emergency room. A medical record documenting the patient’s impaired behavior serves as evidence for (later) convincing the addict to go into treatment or for legal coercion of that treatment.

**Withdrawal**

Withdrawal, like intoxication, presents emergency conditions specific to the abused substance. Unlike the intoxicated patient, however, a patient experiencing the unpleasant symptoms of withdrawal may understand the need for addiction treatment. Because alcohol withdrawal often requires sedative/hypnotic treatment, the wise clinician can design a treatment plan that combines the anti-withdrawal medication with:

• attending Alcoholics Anonymous meetings
• taking disulfiram 12 hours after the last alcohol use and then daily
• and participation in relapse prevention psychotherapy.

**Emergency treatments**

Psychiatrists often have close contact with addicted patients in the hospital, clinic, or emergency department and therefore need to be familiar with basic techniques for managing addiction emergencies. Although addiction-trained psychiatrists manage emergencies at many institutions, general psychiatrists who have learned the following guidelines can form quick and solid therapeutic alliances with their addicted patients in the emergency department.

**Alcohol**

People live dangerously when intoxicated; about 40% of fatal U.S. car accidents involve a drunken driver. Alcohol also can incite physical violence and self-damaging sexual behavior and cause respiratory depression and death.

Acute effects of alcohol intoxication must be treated...
while guarding against potentially lethal withdrawal. Dangerous intoxication states with respiratory compromise may require aggressive supportive care, including intubation and mechanical ventilation. For agitated, intoxicated persons who represent a threat to themselves or others, chemical sedation with benzodiazepines—as opposed to physical restraint—is the preferred treatment.

Alcohol withdrawal requires immediate, definitive treatment (Table 2). Although mild withdrawal is common among alcoholics who cut back on or abruptly stop drinking, it can devolve quickly into delirium tremens (DTs). Serious medical problems—including severe autonomic instability and seizures—occur with DTs, which are associated with mortality rates of 5 to 15%. The adroit emergency department clinician can use the alcohol withdrawal/delirium episode to encourage the patient to begin addiction treatment (Box 2).¹¹

Cocaine Stimulants—most commonly cocaine and smoked methamphetamine—can cause myocardial infarction, cardiac arrhythmia, cerebral hemorrhage, hyperpyrexia, and status epilepticus.¹² These emergencies occurring in a young person indicate the need to screen for cocaine use. Because no antidote exists for stimulant intoxication, we can only deliver supportive care while remaining vigilant for other sequelae of stimulant use, such as agitation and hypertension.¹³

Opiates Overdoses leading to coma and death are the most devastating physical consequence of opiate abuse. Contrary to popular belief, orally ingested and inhaled opiates can depress respiration enough to cause death, just as injected opiates can. Because even appropriately prescribed opioid medications can lead to overdose or addiction, emergency treaters should be prepared to refer patients for pain management.

High-potency heroin often causes overdose in the novice user or in the addict who is surprised by a sudden increase in the heroin’s purity. Adulterants used by dealers to “cut” heroin also can cause illness and death. Quinine, for instance, can cause cardiac arrhythmias. Contaminants such as fentanyl and cholinergic agents such as scopolamine added to enhance the “high” associated with heroin can increase the risk of toxicity or death.

Opioid overdose is characterized by cyanosis and pulmonary edema: slowed breathing, altered mental status, blue lips and fingernail beds, pinpoint pupils, hypothermia, and gasping respirations. In addition to respiratory and cardiac support, treatment with the narcotic antagonist naloxone immediately reverses opioid overdose.

### WHERE TO REFER THE ADDICTED PATIENT

To what level of care should you refer the addicted patient from the emergency department—an inpatient medical unit, psychiatric unit/detoxification facility, residential treatment, partial hospitalization, or other model of care? The American Society of Addiction Medicine (ASAM) manual lists disposition recommendations to match individual patients’ clinical criteria. The criteria and levels are listed here as reminders of the issues involved in referring the addicted patient.

#### ASAM patient criteria
- Alcohol intoxication and/or withdrawal potential
- Biomedical conditions and complications
- Emotional, behavioral, or cognitive conditions and complications
- Readiness to change
- Relapse, continued use, or continued problem potential
- Recovery environment

#### ASAM levels of care
- Early intervention
- Opioid maintenance therapy
- Outpatient treatment
- Intensive outpatient treatment
- Partial hospitalization
- Clinically managed low-intensity residential services
- Clinically managed high-intensity residential services
- Medically monitored intensive inpatient treatment
- Medically managed intensive inpatient treatment

The withdrawal associated with barbiturates—as with withdrawal from other CNS depressants such as alcohol and benzodiazepines—consists of autonomic hyperactivity, confusion, and occasionally seizures.

Overdose, often in combination with alcohol, accounts for most emergency presentations of barbiturate addiction. Supportive treatment—from reassurance and observation to airway support and mechanical ventilation—is required. Since obtundation and coma commonly occur with alcohol/barbiturate combinations, treatment includes monitoring for alcohol intoxication or withdrawal. No antidote exists for barbiturate intoxication.

Alternate medications. If the patient has become addicted to barbiturates prescribed for one of the common indications such as migraine headache, the emergency treater can promote use of a more effective treatment by acknowledging the need to control the headache pain. In managing this pain, the emergency worker can arrange referral:

• to an addiction specialist for treatment of the (now addictive) barbiturate use
• and to a neurologist who can evaluate the patient and prescribe one of many highly effective, nonaddicting headache remedies.

By taking the addiction and the pain seriously, the treater forms an alliance with the patient against the unhealthy consequences of both migraine headaches and addiction.

Benzodiazepines

Often prescribed for anxiety and insomnia, benzodiazepines cause emergency syndromes directly related to their potency, serum half-lives, and lipophilicity. For instance, alprazolam—which is potent, short-acting, and highly lipophilic—causes a severe withdrawal syndrome when high doses are stopped abruptly. This withdrawal state includes anxiety, agitation, and autonomic instability and can progress to frank seizures.

Withdrawal is treated by tapering the benzodiazepine dosage or substituting another benzodiazepine such as clonazepam. Benzodiazepine intoxication usually occurs only with large overdoses, although intoxication can last for days in a patient.
with hepatic disease. Lorazepam and oxazepam are not metabolized by the liver and can be prescribed to the patient in liver failure without causing an overdose.

**Intoxication** is usually treated with supportive measures and close observation for signs of withdrawal. Parenteral flumazenil immediately reverses benzodiazepine intoxication—which may assist both diagnosis and treatment—but its potential to cause seizures decreases this antagonist’s clinical usefulness.

Because benzodiazepine addiction often begins with prescribed medication, emergency department personnel can educate both patients and prescribers. Medications such as diazepam, lorazepam, and alprazolam are relatively safe short-term soporific agents, but use for more than a few weeks often leads to physical dependence and/or addiction. Emergency personnel can help the patient and prescriber switch to a treatment with fewer side effects and less danger of addiction.

**Summary**

Addicts do often change their destructive behavior when faced with increasing consequences such as job loss, relationship problems, financial difficulties, and physical deterioration. Emergencies related to drug and alcohol abuse can serve as learning experiences. Emergency department psychiatrists and other clinicians can use these crises as opportunities to help the addict:

- examine the consequences of substance use
- change the destructive behaviors that lead to medical and social consequences.

**References**


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**Related resources**

- American Academy of Addiction Psychiatry. [www.aap.org](http://www.aap.org)
- National Clearinghouse on Alcohol and Drug Issues. [www.ncadi.org](http://www.ncadi.org)

**DRUG BRAND NAMES**

- Alprazolam • Xanax
- Diazepam • Valium
- Disulfiram • Antabuse
- Flumazenil • Romazicon
- Lorazepam • Ativan
- Oxyazepam • Serax
- Secobarbital • Seconal

**DISCLOSURE**

Dr. Westreich reports that he serves on the speakers’ bureaus of Pfizer Inc. and Bristol-Myers Squibb Company.