ome people just seem to have it, and other people don't.

Take A. Bayer, for example.

In a span of about thirty years in the late 19th century, his German pharmaceutical firm discovered just about every compound and cure worth discovering—at least the ones that mattered most at the time, the ones that completely turned around the way that we looked at common diseases and treatments for those diseases.

Take heroin, for example. Or aspirin. Bayer's labs discovered them both, and both revolutionized the treatment of pain—and reorganized much of the psychic terrain of the 20th century.

But one of Bayer's own discoveries would have no less impact on modern life and leisure.

That was his 1862 combination of urea and malonic acid, a new compound he dubbed "Barbara's urates"—in honor of the patron saint, St. Barbara, of the day he made his discovery, December 4.

It took him a while to figure out what, exactly, the compound was good for. But when Bayer and the boys back at the lab started finding uses for



they very nearly knocked conventional medicine on its collective ear with the *sheer number* of applications they came up with.

EARLY USES, EARLY PROBLEMS

Barbiturates, it seemed, were good for just about everything that could ail you.

They were an effective sedative for the terminally nervous. They helped died-in-the-wool insonniacs sleep like babies. They reduced seizure activity in epileptics and quieted the terror of long-hospitalized mental patients. They helped anesthetize patients before surgery.

In short, barbiturates—all 2,500 or so that were eventually derived from Bayer's original for-



ecause barbiturates are all variations on the same basic chemical theme, all produce more or less the same effects in more or less the same way.

mula-were true "wonder drugs" of the day.

But they weren't perfect—not by a long shot.

They turned out to be addictive, for one thing. And they cause life-and-death problems when used to excess. And they're often used to excess.

In fact, over the years, barbiturates have established a solid reputation as one of the surest routes around to pharmacological oblivion.

A. Bayer couldn't have guessed that things would turn out this way. If he had, he probably would have knocked himself out to find *another* drug to make the problems go away.

BASIC BARBITURATES

Because barbiturates are all variations on the same basic chemical theme, all produce more or less the same effects in more or less the same way—by slowing the flow of neural transmission throughout the central nervous system.

Still, there are distinctions.

Barbiturates are grouped—according to how fast (and how long) they work and what they're prescribed for—into three main categories:

▶ Ultrashort-acting. (e.g. Sodium Pentothal) They produce their effects quickly, usually within 20 minutes. They're used most often to prepare surgical patients for anesthesia.

▶ Short- (or intermediate-) acting. (e.g. Seconal™, Nembutal™) This group takes a little longer to start their effects, but works over a longer period of time. They're prescribed as sleeping pills, and are most subject to abuse.

▶ Long-acting. (e.g. phenobarbital) Long-acting barbs may not achieve full effectiveness for hours or days. They're used most often to reduce seizures and calm anxiety.

DOSAGE & EFFECTS

But regardless of their differences, the effects of individual barbiturates are remarkably similar.

▶ Low doses (say, 50mg or so), are similar to alcohol.

Effects involve a mild impairment of thought and coordination and the same release of inhibition that enables drinkers to sing (even if they're tone deaf) or flirt (even if they're shy).

▶ Moderate doses (100-200mg, for example), produce effects that are more pronounced, with sleep a more-or-less predictable outcome.

Doses at this level can also cause a mild intoxication, complete with slurred speech, clouded judgment, and a greater release of inhibition.

▶ High doses (more than 200mg, in a non-addicted person), result in an even more intense and more unpredictable—intoxication.

Here, users display wide mood swings, and may talk in a babbling, incoherent manner.

Coordination can be reduced to the point that ordinary activities—walking down stairs or driving a car—become serious, life-on-the-line emergencies. Normal judgment is markedly reduced at best, nearly nonexistent at worst.

And those are just the behavioral effects.

In the body, higher doses can cause life-threatening symptoms—from lowered blood pressure and heart rate to cardiovascular collapse.

And no matter how good you feel or how much fun you're having, when that happens you're dead. As a doornail.

LIFE IN THE LAST LANE

If you live long enough to get strung out on barbs and they still don't kill you, rest assured that they 'll do the next best thing: They'll make your life miserable. Guaranteed.

One reason why is that addicts take a lot of barbiturates for a long time. And that causes a lot of problems.

What kinds of problems?

Lots of problems—take impaired thinking and memory, for example, they're pretty common. So are bad judgment, bad reflexes, and fatigue.

Don't like those? Then try these: depression, hostility, reduced sex drive, paranoia, and suicide.

On the physical side, there's deterioration of the central nervous system and damage to the liver and pancreas, both linked to the toxicity of the drug in the body.

Then there's addiction. Because whether A. Bayer foresaw it or not, barbiturates are addictive—powerfully so. Tolerance builds quickly. That means users have to keep raising their dosage to keep feeling the way they felt yesterday and the day before that. And *that* can mean disaster.

Because while tolerance to the *intoxicating* effects of barbiturates is fast, tolerance to the *respiratory-depressant* effects is slow, which means that things can get lethal PDQ.

And dying *does* happen—all the time, as a matter of fact. And if you think it can't happen to you because you're not that stupid, think again.

Everybody who gets strung out on barbiturates is that stupid. And if you're not that stupid to begin with, don't worry about it.

Barbiturates will make you that way.

EMERGENCY EXITS

The best way to handle an overdose is to a) maintain breathing, and b) keep the person awake and moving—preferably in the direction of the nearest hospital.

That's because a barbiturate OD is a life-threatening emergency and common-sense remedies that might *seem* like they should work (like coffee and cold showers) don't always do a lot of good especially if they wind up delaying *real* treatment.

After all, it's next to impossible to predict lethality, given all the factors (age, body size, tolerance, etc.) that can raise or lower

> And that task becomes even more difficult when alcohol (or another downer drug) is figured into the equation, since alcohol and other downers are metabolized by the same enzymes in the liver.

arbiturate overdose is a life-threatening emergency and common-sense remedies that might seem like they should work don't always help.

Since alcohol is a simpler molecule than barbiturates, it gets deactivated first, while barbs are re-absorbed into the bloodstream.

That means mixing alcohol and barbs (or other depressants) not only produces a deeper level of intoxication; it also produces a much greater depressant action on the heart and lungs—sometimes to the point that all systems are off.

And all bets are off then, too.

STUCK & UNSTUCK

But say you're an addict and you live through an OD or two and you *stay* strung out. There's always withdrawal. That can kill you, too.

Because a full-fledged barb habit is one of the hardest of all addictions to shake. It doesn't just involve discomfort and mental anguish (though they're both there, too). It also involves seizures even death, if you take too much too long. The more serious health risks linked to barbiturate withdrawal typically follow high dosage levels (400mg or more a day) over a prolonged period—usually weeks or months.

Symptoms appear within 12-24 hours (depending on the drug) and peak within 24-72 hours (or later, in the case of long-acting barbs).

In addition to garden-variety withdrawal symptoms (chills, cramps, and insomnia), barb detox can cause delirium, hallucinations, seizures, and (as we mentioned a moment ago) the granddaddiest why-do-you-think-they-call-itdope symptom of all: death, usually by cardiovascular collapse or cerebral hemorrhage.

Dying isn't an inevitable outcome of withdrawal, but it does happen often enough (in as many as 5 percent of all cases involving severe addiction) that it's not exactly a fluke, either.

What to do? If you're addicted, get yourself into a detox facility. Withdrawal is more than tough. It can also be dangerous.

THE OTHER GUYS: NON-BARBITURATE SEDATIVE HYPNOTICS

cience has been hot on the trail of a good safe alternative to barbiturates almost since the first commercially-produced barbiturate, Veronal, rolled off the assembly line in 1903.

The problem with most of the early non-barbiturate sedative hypnotics (as *any* new non-barbiturate sleeping pill came to be called) is that most were as bad as (and some worse than) the drugs they were designed to replace. And while newer drugs have minimized a lot of the early problems, no depressant drug yet has proven perfect. All are addictive given half a chance, and all cause problems given less of a chance than that.

Here are some of the more common non-barbiturates in use today—and their risk potential.

GENERIC	TRADE	PHYSICAL	PSYCHOLOGICAL
NAME	NAME(S)	DEPENDENCE	DEPENDENCE
methaqualone*	Quaalude, Mandrax	High	High
glutethimide	Doriden	High	High
ethchlorvynol	Placidyl	High	High
methyprylon	Noludar	High	High
flurazepam	Dalmane	Low	Low

*Methaqualone is no longer manufactured in the United States, but is still available in Canada and other countries.

BARBITURATES RECONSIDERED

When old A. Bayer looked at his life, he probably thought he'd accomplished quite a bit through his discovery of "Barbara's urates" back in 1864.

After all, how often does anyone cure *any* disease—much less four or five in a single stroke the way A. thought he had—in a lifetime, much less a single afternoon?

It's probably a good thing he didn't live to see the rough handling that history finally gave his discovery.

Because one by one, the uses Bayer dreamed up have fallen by the pharmacological roadside partly due to the dangers of the compounds, partly due to the development of newer, less-risky substitutes.

Today, far from being seen as a cure or solution for much of anything (except an occasional sleepless night), barbiturates mostly look like just one more problem to be dealt with—and, for some people, dealt with and dealt with.

That's because barbiturates are serious drugs and can cause serious problems if you let them.

Don't let them. Because these barbs can sting for a long, long time.



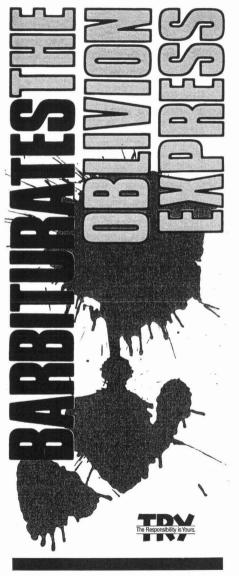
Alcohol and Drug Programs Ministry of Labour and Consumer Services

Need help with a problem or want more information? Call the confidential TRY-line at 1-800-663-1441.



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DIN 111 ©1990 7/90



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