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Chemical, Technical & Pharmacological Overview

Diazepam is the generic (technical) name for Valium.

- **Chemical (IUPAC) Name:**
7-chloro-1,3-dihydro-1-methyl-5-phenyl-2H-1,4-benzodiazepin-2-one
- **Molecular Formula:** $C_{16}H_{13}ClN_2O$
- **Molecular Weight:** 284.74 g/mol
- **Drug Class:** Benzodiazepine
- **Mechanism of Action:** Positive allosteric modulator of the GABA-A receptor, enhancing inhibitory neurotransmission in the central nervous system.

Diazepam produces anxiolytic, sedative, anticonvulsant, and muscle-relaxant effects by increasing GABA-mediated chloride ion influx, which reduces neuronal excitability.

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Introduction

Diazepam is a Schedule IV controlled substance in the United States due to its potential for dependence and misuse. It must be prescribed by a licensed healthcare provider and dispensed by a verified pharmacy that complies with federal and state regulations.

Understanding its pharmacology, approved uses, and safety considerations is essential before treatment.

Approved Medical Uses

Diazepam is commonly prescribed for:

- Anxiety disorders
- Acute alcohol withdrawal
- Muscle spasms
- Seizure disorders
- Pre-procedural sedation

Treatment decisions should always be made under professional medical supervision.

Regulatory & Legal Framework

Diazepam is regulated by agencies such as:

- U.S. Drug Enforcement Administration
- U.S. Food and Drug Administration

A valid prescription is required, and dispensing must follow controlled-substance regulations.

General Usage Overview

Formulation	Typical Clinical Use*	Important Notes
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Tablets	Anxiety, muscle spasm	May cause sedation
Oral solution	As prescribed	Measure accurately
Injectable	Hospital use	Administered by professionals

*Always follow your healthcare provider's exact prescription instructions.

Safety Considerations

Possible side effects include:

- Drowsiness
- Dizziness
- Impaired coordination
- Cognitive slowing

Serious risks include:

- Dependence with prolonged use
- Withdrawal symptoms if stopped abruptly
- Respiratory depression (especially when combined with opioids or alcohol)

Patients should never adjust dosage without consulting a healthcare provider.

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