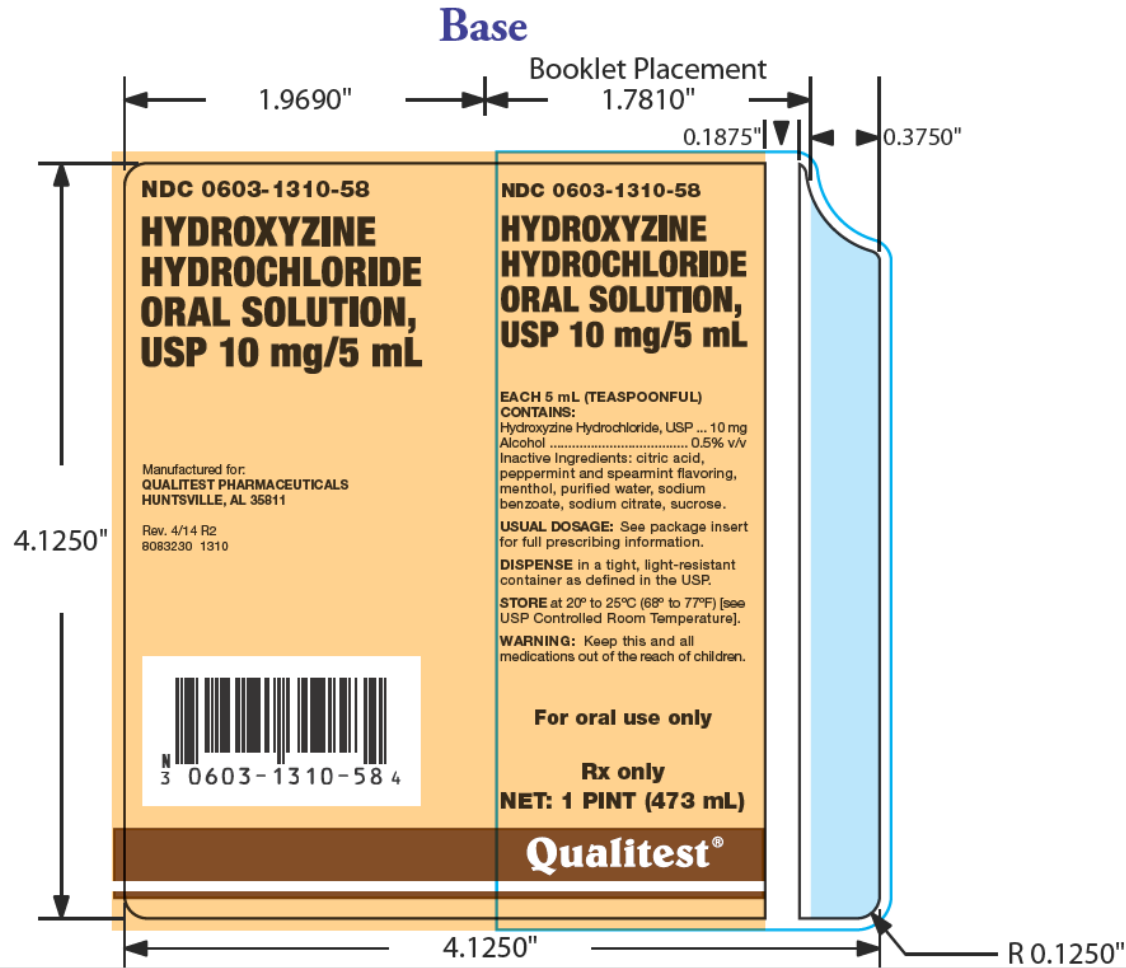


Qualitest Pharmaceuticals  
16 oz. Hydroxyzine HCl OS, USP

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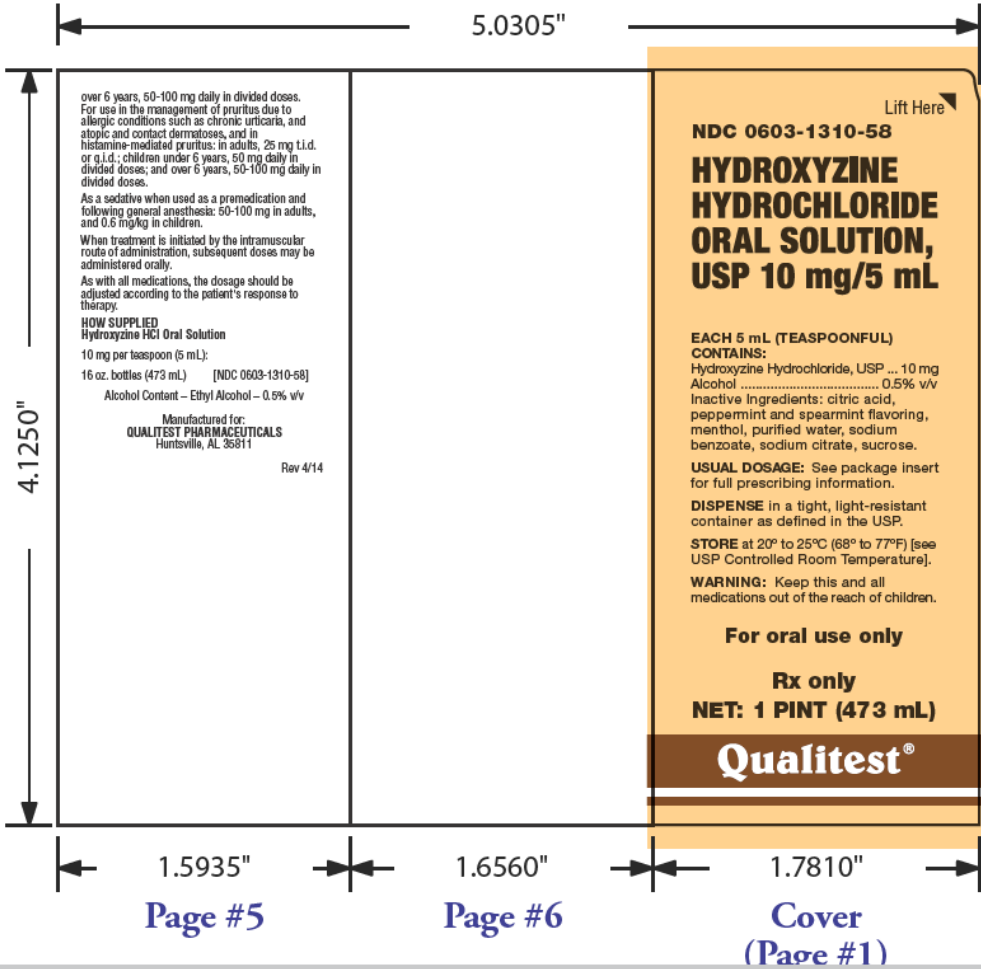
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Qualitest Pharmaceuticals  
16 oz. Hydroxyzine HCl OS, USP

Front

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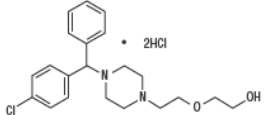
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Qualitest Pharmaceuticals  
 16 oz. Hydroxyzine HCl OS, USP

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<p style="text-align: center;"><b>HYDROXYZINE HYDROCHLORIDE ORAL SOLUTION, USP</b> Rx only</p> <p><b>DESCRIPTION</b> Hydroxyzine hydrochloride is designated chemically as 1-(p-chlorobenzhydriyl) 4-[2-(2-hydroxyethoxy)-ethyl] piperazine dihydrochloride, with the following structure:</p>  <p style="text-align: center;">• 2HCl</p> <p>Molecular formula: <math>C_{21}H_{27}ClN_2O_2 \cdot 2HCl</math>      M.W. = 447.83</p> <p>Each 5 mL (teaspoonful), for oral administration, contains Hydroxyzine hydrochloride 10 mg, ethyl alcohol 0.5% v/v, citric acid, peppermint and spearmint flavoring, menthol, purified water, sodium benzoate, sodium citrate, sucrose.</p> <p><b>CLINICAL PHARMACOLOGY</b> Hydroxyzine HCl Oral Solution is unrelated chemically to the phenothiazines, reserpine, meprobamate, or the benzodiazepines.</p> <p>Hydroxyzine HCl Oral Solution is not a cortical depressant, but its action may be due to a suppression of activity in certain key regions of the subcortical area of the central nervous system. Primary skeletal muscle relaxation has been demonstrated experimentally. Bronchodilator activity, and antihistaminic and analgesic effects have been demonstrated experimentally and confirmed clinically. An antiemetic effect, both by the apomorphine test and the veriford test, has been demonstrated. Pharmacological and clinical studies indicate that hydroxyzine in therapeutic dosage does not increase gastric secretion or acidity and in most cases has mild antisecretory activity. Hydroxyzine is rapidly absorbed from the gastrointestinal tract and Hydroxyzine HCl Oral Solution's clinical effects are usually noted within 15 to 30 minutes after oral administration.</p> <p><b>INDICATIONS AND USAGE</b> For symptomatic relief of anxiety and tension associated with psychoneurosis and as an adjunct in organic disease states in which anxiety is manifested.</p> <p>Useful in the management of pruritus due to allergic conditions such as chronic urticaria and atopic and contact dermatoses, and in histamine-mediated pruritus.</p> <p>As a sedative when used as premedication and following general anesthesia, Hydroxyzine may potentiate meperidine (Demerol®) and barbiturates, so their use in pre-anesthetic adjunctive therapy should be modified on an individual basis. Atropine and other belladonna alkaloids are not affected by the drug. Hydroxyzine is not known to</p>	<p>interfere with the action of digitalis in any way, and it may be used concurrently with this agent.</p> <p>The effectiveness of hydroxyzine as an anti-anxiety agent for long term use, that is more than 4 months, has not been assessed by systematic clinical studies. The physician should reassess periodically the usefulness of the drug for the individual patient.</p> <p><b>CONTRAINDICATIONS</b> Oral hydroxyzine hydrochloride is contraindicated in patients with known hypersensitivity to hydroxyzine hydrochloride products, and in patients with known hypersensitivity to citalizine hydrochloride or levocetizine hydrochloride.</p> <p>Hydroxyzine, when administered to the pregnant mouse, rat, and rabbit, induced fetal abnormalities in the rat and mouse at doses substantially above the human therapeutic range. Clinical data in human beings are inadequate to establish safety in early pregnancy. Until such data are available, hydroxyzine is contraindicated in early pregnancy.</p> <p>Hydroxyzine is contraindicated for patients who have shown a previous hypersensitivity to it.</p> <p><b>WARNINGS</b> <b>Nursing Mothers:</b> it is not known whether this drug is excreted in human milk. Since many drugs are so excreted, hydroxyzine should not be given to nursing mothers.</p> <p><b>PRECAUTIONS</b> <b>THE POTENTIATING ACTION OF HYDROXYZINE MUST BE CONSIDERED WHEN THE DRUG IS USED IN CONJUNCTION WITH CENTRAL NERVOUS SYSTEM DEPRESSANTS SUCH AS NARCOTICS, NON-NARCOTIC ANALGESICS, AND BARBITURATES.</b> Therefore, when central nervous system depressants are administered concomitantly with hydroxyzine, their dosage should be reduced.</p> <p>Since drowsiness may occur with use of this drug, patients should be warned of this possibility and cautioned against driving a car or operating dangerous machinery while taking Hydroxyzine HCl Oral Solution. Patients should be advised against the simultaneous use of other CNS depressant drugs, and cautioned that the effect of alcohol may be increased.</p> <p><b>Geriatric Use:</b> A determination has not been made whether controlled clinical studies of Hydroxyzine HCl Oral Solution included sufficient numbers of subjects aged 65 and over to define a difference in response from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal or cardiac function, and of concomitant disease or other drug therapy.</p>	<p>The extent of renal excretion of Hydroxyzine HCl Oral Solution has not been determined. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selections.</p> <p>Sedating drugs may cause confusion and over sedation in the elderly; elderly patients generally should be started on low doses of Hydroxyzine HCl Oral Solution and observed closely.</p> <p><b>ADVERSE REACTIONS</b> Side effects reported with the administration of Hydroxyzine HCl Oral Solution are usually mild and transitory in nature.</p> <p><b>Anticholinergic:</b> Dry mouth.</p> <p><b>Central Nervous System:</b> Drowsiness is usually transitory and may disappear in a few days of continued therapy or upon reduction of the dose. Involuntary motor activity including rare instances of tremor and convulsions have been reported, usually with doses considerably higher than those recommended. Clinically significant respiratory depression has not been reported at recommended doses.</p> <p><b>Skin and Appendages:</b> Oral hydroxyzine hydrochloride is associated with fixed drug eruption in postmarketing reports.</p> <p><b>OVERDOSAGE</b> The most common manifestation of Hydroxyzine HCl Oral Solution overdose is hypersecretion. As in the management of overdose with any drug, it should be borne in mind that multiple agents may have been taken.</p> <p>If vomiting has not occurred spontaneously, it should be induced. Immediate gastric lavage is also recommended. General supportive care, including frequent monitoring of the vital signs and close observation of the patient, is indicated. Hypotension, though unlikely, may be controlled with intravenous fluids and Levophed® (levarteranol), or Acamine® (metaraminol). Do not use epinephrine as Hydroxyzine HCl Oral Solution counteracts its pressor action.</p> <p>There is no specific antidote. It is doubtful that hemodialysis would be of any value in the treatment of overdose with hydroxyzine. However, if other agents such as barbiturates have been ingested concomitantly, hemodialysis may be indicated. There is no practical method to quantitate hydroxyzine in body fluids or tissue after its ingestion or administration.</p> <p><b>DOSAGE AND ADMINISTRATION</b> For symptomatic relief of anxiety and tension associated with psychoneurosis and as an adjunct in organic disease states in which anxiety is manifested: in adults, 50-100 mg q.i.d.; children under 6 years, 50 mg daily in divided doses; and</p>	
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**This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.**

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/s/  
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ROBERT L WEST

06/03/2014

Deputy Director, Office of Generic Drugs, for  
Kathleen Uhl, M.D.