

**ACETAMINOPHEN- acetaminophen injection, solution**  
**HF Acquisition Co LLC, DBA HealthFirst**

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**ACETAMINOPHEN INJECTION 1,000mg PER 100mL (10mg/mL)**

**HIGHLIGHTS OF PRESCRIBING INFORMATION**

These highlights do not include all the information needed to use ACETAMINOPHEN INJECTION safely and effectively. See full prescribing information for ACETAMINOPHEN INJECTION.

ACETAMINOPHEN injection, for intravenous use  
Initial U.S. Approval: 1951

**WARNING: RISK OF MEDICATION ERRORS AND HEPATOTOXICITY**

Take care when prescribing, preparing, and administering Acetaminophen Injection to avoid dosing errors which could result in accidental overdose and death. In particular, be careful to ensure that:

- the dose in milligrams (mg) and milliliters (mL) is not confused;
- the dosing is based on weight for patients under 50 kg;
- infusion pumps are properly programmed; and
- the total daily dose of acetaminophen from all sources does not exceed maximum daily limits.

Acetaminophen Injection contains acetaminophen. Acetaminophen has been associated with cases of acute liver failure, at times resulting in liver transplant and death. Most of the cases of liver injury are associated with the use of acetaminophen at doses that exceed the maximum daily limits, and often involve more than one acetaminophen-containing product [see [WARNINGS AND PRECAUTIONS \(5.1\)](#)].

[CLOSE](#)

See Warnings and Precautions (5.1)

**INDICATIONS AND USAGE**

Acetaminophen Injection is indicated for the

Management of mild to moderate pain in adult and pediatric patients 2 years and older (1)

Management of moderate to severe pain with adjunctive opioid analgesics in adult and pediatric patients 2 years and older (1)

Reduction of fever in adult and pediatric patients (1)

**DOSAGE AND ADMINISTRATION**

Acetaminophen Injection may be given as a single or repeated dose. (2.1)

Acetaminophen Injection should be administered only as a 15-minute intravenous infusion. (2.4)

Adults and Adolescents Weighing 50 kg and Over:

1,000 mg every 6 hours or 650 mg every 4 hours to a maximum of 4,000 mg per day.

Minimum dosing interval of 4 hours. (2.2)

Adults and Adolescents Weighing Under 50 kg:

15 mg/kg every 6 hours or 12.5 mg/kg every 4 hours to a maximum of 75 mg/kg per day. Minimum dosing interval of 4 hours. (2.2)

Children:

Children 2 to 12 years of age: 15 mg/kg every 6 hours or 12.5 mg/kg every 4 hours to a maximum of 75 mg/kg per day. Minimum dosing interval of 4 hours. (2.3)

Neonates and Infants:

Neonates including premature neonates born at  $\geq 32$  weeks gestational age to 28 days chronological age, 12.5 mg/kg every 6 hours to a maximum of 50 mg/kg per day. Minimum dosing interval of 6 hours. (2.4)

Infants (29 days to 2 years of age): 15 mg/kg every 6 hours to a maximum of 60 mg/kg per day. Minimum dosing interval of 6 hours. (2.4)

## DOSAGE FORMS AND STRENGTHS

Injection for intravenous infusion.

Each 100 mL glass vial contains 1,000 mg acetaminophen (10 mg/mL). (3)

## CONTRAINDICATIONS

Acetaminophen is contraindicated:

In patients with known hypersensitivity to acetaminophen or to any of the excipients in the IV formulation. (4)

In patients with severe hepatic impairment or severe active liver disease. (4)

## WARNINGS AND PRECAUTIONS

Administration of acetaminophen in doses higher than recommended (by all routes of administration and from all acetaminophen-containing products including combination products) may result in hepatic injury, including the risk of liver failure and death. (5.1) Use caution when administering acetaminophen in patients with the following conditions: hepatic impairment or active hepatic disease, in cases of alcoholism, chronic malnutrition, severe hypovolemia, or severe renal impairment (creatinine clearance  $\leq 30$  mL/min). (5.1)

Discontinue acetaminophen injection immediately at the first appearance of skin rash and if symptoms associated with allergy or hypersensitivity occur. Do not use in patients with acetaminophen allergy. (5.2, 5.4)

Take care when prescribing, preparing, and administering acetaminophen injection to avoid dosing errors which could result in accidental overdose and death. (5.3)

## ADVERSE REACTIONS

The most common adverse reactions in patients treated with acetaminophen were nausea, vomiting, headache, and insomnia in adult patients; nausea, vomiting, constipation, and pruritus in pediatric patients. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact AuroMedics Pharma LLC at 1-866-850-2876 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).

## DRUG INTERACTIONS

Substances that induce or regulate hepatic cytochrome enzyme CYP2E1 may alter the metabolism of acetaminophen and increase its hepatotoxic potential. (7.1)  
Chronic oral acetaminophen use at a dose of 4,000 mg/day has been shown to cause an increase in international normalized ratio (INR) in some patients who have been stabilized on sodium warfarin as an anticoagulant. (7.2)

## USE IN SPECIFIC POPULATIONS

**Pediatric Use:** The effectiveness of acetaminophen for the treatment of acute pain in pediatric patients younger than 2 years of age has not been established. The safety and effectiveness of acetaminophen in pediatric patients is supported by evidence from adequate and well controlled studies in adults with additional safety and pharmacokinetic data for this age group. (8.4)

**Geriatric Use:** No overall differences in safety or effectiveness were observed between geriatric and younger subjects. (8.5)

**Hepatic Impairment:** Acetaminophen is contraindicated in patients with severe hepatic impairment or severe active liver disease and should be used with caution in patients with hepatic impairment or active liver disease. ( 4, 5.1, 8.6)

**Renal Impairment:** In cases of severe renal impairment, longer dosing intervals and a reduced total daily dose of acetaminophen may be warranted. ( 5.1, 8.7)

Revised: 12/2021

## TABLE OF CONTENTS

FULL PRESCRIBING INFORMATION: CONTENTS\*

WARNING: RISK OF MEDICATION ERRORS AND HEPATOTOXICITY

1 INDICATIONS AND USAGE

2 DOSAGE AND ADMINISTRATION

2.1 General Dosing Information

2.2 Recommended Dosage: Adults and Adolescents

2.3 Recommended Dosage: Children

2.4 Recommended Dosage for Treatment of Fever in Neonates and Infants

2.5 Instructions for Intravenous Administration

3 DOSAGE FORMS AND STRENGTHS

4 CONTRAINDICATIONS

5 WARNINGS AND PRECAUTIONS

5.1 Hepatic Injury

5.2 Serious Skin Reactions

5.3 Risk of Medication Errors

5.4 Allergy and Hypersensitivity

6 ADVERSE REACTIONS

6.1 Clinical Trial Experience

7 DRUG INTERACTIONS

7.1 Effects of Other Substances on Acetaminophen

7.2 Anticoagulants

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

8.2 Lactation

8.3 Females and Males of Reproductive Potential

8.4 Pediatric Use

8.5 Geriatric Use  
8.6 Patients with Hepatic Impairment  
8.7 Patients with Renal Impairment  
10 OVERDOSAGE  
11 DESCRIPTION  
12 CLINICAL PHARMACOLOGY  
12.1 Mechanism of Action  
12.2 Pharmacodynamics  
12.3 Pharmacokinetics  
13 NONCLINICAL TOXICOLOGY  
13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility  
14 CLINICAL STUDIES  
14.1 Adult Acute Pain  
14.2 Adult Fever  
14.3 Pediatric Acute Pain and Fever 16 HOW SUPPLIED/STORAGE AND HANDLING

\*Sections or subsections omitted from the full prescribing information are not listed.

## BOXED WARNING

### WARNING: RISK OF MEDICATION ERRORS AND HEPATOTOXICITY

Take care when prescribing, preparing, and administering Acetaminophen Injection to avoid dosing errors which could result in accidental overdose and death. In particular, be careful to ensure that:

- the dose in milligrams (mg) and milliliters (mL) is not confused;
- the dosing is based on weight for patients under 50 kg;
- infusion pumps are properly programmed; and
- the total daily dose of acetaminophen from all sources does not exceed maximum daily limits.

Acetaminophen Injection contains acetaminophen. Acetaminophen has been associated with cases of acute liver failure, at times resulting in liver transplant and death. Most of the cases of liver injury are associated with the use of acetaminophen at doses that exceed the maximum daily limits, and often involve more than one acetaminophen-containing product [see [WARNINGS AND PRECAUTIONS \(5.1\)](#)].

[CLOSE](#)

(see Warnings and Precautions (5.1))

## 1 INDICATIONS & USAGE

Acetaminophen Injection is indicated for

the management of mild to moderate pain in adult and pediatric patients 2 years and older

the management of moderate to severe pain with adjunctive opioid analgesics in adult and pediatric patients 2 years and older

the reduction of fever in adult and pediatric patients.

## 2 DOSAGE & ADMINISTRATION

### 2.1 General Dosing Information

Acetaminophen Injection may be given as a single or repeated dose for the treatment of acute pain or fever. No dose adjustment is required when converting between oral acetaminophen and Acetaminophen Injection dosing in adults and adolescents who weigh 50 kg and above. Calculated maximum daily dose of acetaminophen is based on all routes of administration (i.e., intravenous, oral, and rectal) and all products containing acetaminophen. Exceeding the maximum mg/kg daily dose of acetaminophen as described in Tables 1 to 3 may result in hepatic injury, including the risk of liver failure and death. To avoid the risk of overdose, ensure that the total amount of acetaminophen from all routes and from all sources does not exceed the maximum recommended dose.

### 2.2 Recommended Dosage: Adults and Adolescents

Adults and adolescents weighing 50 kg and over: the recommended dosage of Acetaminophen Injection is 1,000 mg every 6 hours or 650 mg every 4 hours, with a maximum single-dose of Acetaminophen Injection of 1,000 mg, a minimum dosing interval of 4 hours, and a maximum daily dose of acetaminophen of 4,000 mg per day (includes all routes of administration and all acetaminophen-containing products including combination products).

Adults and adolescents weighing under 50 kg: the recommended dosage of Acetaminophen Injection is 15 mg/kg every 6 hours or 12.5 mg/kg every 4 hours, with a maximum single-dose of Acetaminophen Injection of 15 mg/kg, a minimum dosing interval of 4 hours, and a maximum daily dose of acetaminophen of 75 mg/kg per day (includes all routes of administration and all acetaminophen-containing products including combination products).

Table 1. Dosing for Adults and Adolescents

Age group	Dose given every 4 hours	Dose given every 6 hours	Maximum single-dose	Maximum total daily dose of acetaminophen (by all routes)
Adults and adolescents (13 years and older) weighing $\geq$ 50 kg	650 mg	1,000 mg	1,000 mg	4,000 mg in 24 hours
Adults and adolescents (13 years and older) weighing < 50 kg	12.5 mg/kg	15 mg/kg	15 mg/kg (up to 750 mg)	75 mg/kg in 24 hours (up to 3,750 mg)

### 2.3 Recommended Dosage: Children

Children 2 to 12 years of age: the recommended dosage of Acetaminophen Injection is 15 mg/kg every 6 hours or 12.5 mg/kg every 4 hours, with a maximum single-dose of

Acetaminophen Injection of 15 mg/kg, a minimum dosing interval of 4 hours, and a maximum daily dose of acetaminophen of 75 mg/kg per day.

Table 2. Dosing for Children

Age group	Dose given every 4 hours	Dose given every 6 hours	Maximum single-dose	Maximum total daily dose of acetaminophen (by all routes)
Children 2 to 12 years of age	12.5 mg/kg	15 mg/kg	15 mg/kg (up to 750 mg)	75 mg/kg in 24 hours (up to 3,750 mg)

## 2.4 Recommended Dosage for Treatment of Fever in Neonates and Infants

Neonates, including premature neonates born at  $\geq 32$  weeks gestational age, up to 28 days chronological age: the recommended dosage of acetaminophen is 12.5 mg/kg every 6 hours, to a maximum daily dose of acetaminophen of 50 mg/kg per day, with a minimum dosing interval of 6 hours.

Infants 29 days to 2 years of age: the recommended dosage of acetaminophen is 15 mg/kg every 6 hours, to a maximum daily dose of acetaminophen of 60 mg/kg per day, with a minimum dosing interval of 6 hours.

Table 3. Dosing for Treatment of Fever in Neonates and Infants

Age group	Dose given every 6 hours	Maximum total daily dose of acetaminophen (by all routes)
Neonates (birth to 28 days)	12.5 mg/kg	50 mg/kg
Infants (29 days to 2 years)	15 mg/kg	60 mg/kg

## 2.5 Instructions for Intravenous Administration

For adult and adolescent patients weighing  $\geq 50$  kg requiring 1,000 mg doses of Acetaminophen Injection, administer the dose by inserting a vented intravenous set through the septum of the 100 mL vial. Acetaminophen Injection may be administered without further dilution. Examine the container contents before dose preparation or administering. DO NOT USE if particulate matter or discoloration is observed. Administer the contents of the vial intravenously over 15 minutes. Use aseptic technique when preparing Acetaminophen Injection for intravenous infusion. Do not add other medications to the Acetaminophen Injection vial or infusion device.

For doses less than 1,000 mg, the appropriate dose must be withdrawn from the container and placed into a separate container prior to administration. Using aseptic technique, withdraw the appropriate dose (650 mg or weight-based) from an intact sealed Acetaminophen Injection container and place the measured dose in a separate empty, sterile container (e.g., glass bottle, plastic intravenous container, or syringe) for intravenous infusion to avoid the inadvertent delivery and administration of the total volume of the commercially available container. The entire 100 mL container of Acetaminophen Injection is not intended for use in patients weighing less than 50 kg.

Acetaminophen Injection is supplied in a single-dose container and the unused portion must be discarded.

Place small volume pediatric doses up to 60 mL in volume in a syringe and administer over 15 minutes using a syringe pump.

Monitor the end of the infusion in order to prevent the possibility of an air embolism, especially in cases where the Acetaminophen Injection infusion is the primary infusion.

Once the container seal has been penetrated, or the contents transferred to another container, administer the dose of Acetaminophen Injection within 6 hours.

Do not add other medications to the Acetaminophen Injection solution. Diazepam and chlorpromazine hydrochloride are physically incompatible with Acetaminophen Injection, therefore do not administer simultaneously.

### **3 DOSAGE FORMS & STRENGTH**

Acetaminophen Injection is a sterile, clear, colorless solution, free from visible particles, non-pyrogenic, preservative free, isotonic formulation of acetaminophen intended for intravenous infusion. Each 100 mL glass vial contains 1,000 mg acetaminophen (10 mg/mL).

### **4 CONTRAINDICATIONS**

Acetaminophen is contraindicated:

in patients with known hypersensitivity to acetaminophen or to any of the excipients in the intravenous formulation.

in patients with severe hepatic impairment or severe active liver disease [see WARNINGS AND PRECAUTIONS (5.1)].

### **5 WARNINGS AND PRECAUTIONS**

#### **5.1 Hepatic Injury**

Administration of acetaminophen in doses higher than recommended may result in hepatic injury, including the risk of liver failure and death [ see OVERDOSAGE (10)]. Do not exceed the maximum recommended daily dose of acetaminophen [ see DOSAGE AND ADMINISTRATION (2)]. The maximum recommended daily dose of acetaminophen includes all routes of acetaminophen administration and all acetaminophen-containing products administered, including combination products.

Use caution when administering acetaminophen in patients with the following conditions: hepatic impairment or active hepatic disease, alcoholism, chronic malnutrition, severe hypovolemia (e.g., due to dehydration or blood loss), or severe renal impairment (creatinine clearance  $\leq$  30 mL/min) [see USE IN SPECIFIC POPULATIONS (8.6, 8.7)].

#### **5.2 Serious Skin Reactions**

Rarely, acetaminophen may cause serious skin reactions such as acute generalized

exanthematous pustulosis (AGEP), Stevens-Johnson Syndrome (SJS), and toxic epidermal necrolysis (TEN), which can be fatal. Patients should be informed about the signs of serious skin reactions, and use of the drug should be discontinued at the first appearance of skin rash or any other sign of hypersensitivity.

### 5.3 Risk of Medication Errors

Take care when prescribing, preparing, and administering Acetaminophen Injection in order to avoid dosing errors which could result in accidental overdose and death. In particular, be careful to ensure that:

the dose in milligrams (mg) and milliliters (mL) is not confused;  
the dosing is based on weight for patients under 50 kg;  
infusion pumps are properly programmed; and  
the total daily dose of acetaminophen from all sources does not exceed maximum daily limits [ see DOSAGE AND ADMINISTRATION (2)].

### 5.4 Allergy and Hypersensitivity

There have been post-marketing reports of hypersensitivity and anaphylaxis associated with the use of acetaminophen. Clinical signs included swelling of the face, mouth, and throat, respiratory distress, urticaria, rash, and pruritus. There were infrequent reports of life-threatening anaphylaxis requiring emergent medical attention. Discontinue acetaminophen immediately if symptoms associated with allergy or hypersensitivity occur. Do not use acetaminophen in patients with acetaminophen allergy.

## 6 ADVERSE REACTIONS

The following serious adverse reactions are discussed elsewhere in the labeling:

Hepatic Injury [ see WARNINGS AND PRECAUTIONS (5.1)]

Serious Skin Reactions [see WARNINGS AND PRECAUTIONS (5.2)]

Allergy and Hypersensitivity [ see WARNINGS AND PRECAUTIONS (5.4)]

### 6.1 Clinical Trial Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed cannot be directly compared to rates in other clinical trials and may not reflect the rates observed in practice.

#### Adult Population

A total of 1,020 adult patients have received acetaminophen in clinical trials, including 37.3% (n=380) who received 5 or more doses, and 17.0% (n=173) who received more than 10 doses. Most patients were treated with acetaminophen 1,000 mg every 6 hours. A total of 13.1% (n=134) received acetaminophen 650 mg every 4 hours.

All adverse reactions that occurred in adult patients treated with either acetaminophen or placebo in repeated dose, placebo-controlled clinical trials at an incidence  $\geq 3\%$  and at a greater frequency than placebo are listed in Table 4. The most common adverse events in adult patients treated with acetaminophen (incidence  $\geq 5\%$  and greater than placebo) were nausea, vomiting, headache, and insomnia.



**Table 4. Treatment-Emergent Adverse Reactions Occurring in  $\geq$  3% of Acetaminophen-treated Adult Patients and at a Greater Frequency than Placebo in Placebo-Controlled, Repeated Dose Studies**

System Organ Class – Preferred Term	Acetaminophen (N=402) n (%)	Placebo (N=379) n (%)
<b>Gastrointestinal Disorders</b>	138 (34)	119 (31)
Nausea	62 (15)	42 (11)
Vomiting		
<b>General Disorders and Administration Site Conditions</b>	22 (5)	52 (14)
Pyrexia*		
<b>Nervous System Disorders</b>	39 (10)	33 (9)
Headache		
<b>Psychiatric Disorders</b>	30 (7)	21 (5)
Insomnia		

\* Pyrexia adverse reaction frequency data is included in order to alert healthcare practitioners that the antipyretic effects of acetaminophen may mask fever.

### Other Adverse Reactions Observed During Clinical Studies of Acetaminophen in Adults

The following additional treatment-emergent adverse reactions were reported by adult subjects treated with acetaminophen in all clinical trials (n=1,020) that occurred with an incidence of at least 1% and at a frequency greater than placebo (n=525).

Blood and lymphatic system disorders: anemia

General disorders and administration site conditions: fatigue, infusion site pain, edema peripheral

Investigations: aspartate aminotransferase increased, breath sounds abnormal

Metabolism and nutrition disorders: hypokalemia

Musculoskeletal and connective tissue disorders: muscle spasms, trismus

Psychiatric disorders: anxiety

Respiratory, thoracic and mediastinal disorders: dyspnea

Vascular disorders: hypertension, hypotension

### Pediatric Population

A total of 483 pediatric patients (72 neonates, 167 infants, 171 children, and 73 adolescents) have received acetaminophen in active-controlled (n=250) and open-label clinical trials (n=225), including 43.9% (n=212) who received 5 or more doses and 31.2% (n=153) who received more than 10 doses. Pediatric patients received acetaminophen doses up to 15 mg/kg on an every 4 hours, every 6 hours, or every 8 hours schedule. The maximum exposure was 7.7, 6.4, 6.8, and 7.1 days in neonates, infants, children, and adolescents, respectively.

The most common adverse events (incidence  $\geq$  5%) in pediatric patients treated with

acetaminophen were nausea, vomiting, constipation, and pruritus.

## Other Adverse Reactions Observed During Clinical Studies of Acetaminophen in Pediatrics

The following additional treatment-emergent adverse reactions were reported by pediatric subjects treated with acetaminophen (n=483) that occurred with an incidence of at least 1%.

Blood and lymphatic system disorders: anemia

Gastrointestinal disorders: diarrhea

General disorders and administration site conditions: pyrexia, injection site pain

Metabolism and nutrition disorders: hypokalemia, hypomagnesemia, hypoalbuminemia, hypophosphatemia

Musculoskeletal and connective tissue disorders: muscle spasm

Nervous system disorders: headache

Psychiatric disorders: agitation

Renal and urinary disorders: oliguria

Respiratory, thoracic and mediastinal disorders: atelectasis, pleural effusion, pulmonary edema, stridor, wheezing

Vascular disorders: hypotension, hypertension

## 7 DRUG INTERACTIONS

### 7.1 Effects of Other Substances on Acetaminophen

Substances that induce or regulate hepatic cytochrome enzyme CYP2E1 may alter the metabolism of acetaminophen and increase its hepatotoxic potential. The clinical consequences of these effects have not been established. Effects of ethanol are complex, because excessive alcohol usage can induce hepatic cytochromes, but ethanol also acts as a competitive inhibitor of the metabolism of acetaminophen.

### 7.2 Anticoagulants

Chronic oral acetaminophen use at a dose of 4,000 mg/day has been shown to cause an increase in international normalized ratio (INR) in some patients who have been stabilized on sodium warfarin as an anticoagulant. As no studies have been performed evaluating the short-term use of acetaminophen in patients on oral anticoagulants, more frequent assessment of INR may be appropriate in such circumstances.

## 8 USE IN SPECIFIC POPULATIONS

### 8.1 Pregnancy

#### Risk Summary

Published epidemiological studies with oral acetaminophen use during pregnancy have not reported a clear association with acetaminophen use and birth defects, miscarriage,

or adverse maternal or fetal outcomes [see Data]. Animal reproduction studies have not been conducted with IV acetaminophen. Reproductive and developmental studies in rats and mice from the published literature identified adverse events at clinically relevant doses with acetaminophen. Treatment of pregnant rats with doses of acetaminophen approximately equal to the maximum human daily dose (MHDD) showed evidence of fetotoxicity and increases in bone variations in the fetuses. In another study, necrosis was observed in the liver and kidney of both pregnant rats and fetuses at doses approximately equal to the MHDD. In mice and rats treated with acetaminophen at doses within the clinical dosing range, cumulative adverse effects on reproductive capacity were reported. In mice, a reduction in number of litters of the parental mating pair was observed as well as retarded growth, abnormal sperm in their offspring and reduced birth weight in the next generation. In rats, female fertility was decreased following in utero exposure to acetaminophen [see Data].

The estimated background risk of major birth defects and miscarriages for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively.

## Data

### Human Data

The results from a large population-based prospective cohort, including data from 26,424 women with live born singletons who were exposed to oral acetaminophen during the first trimester, indicate no increased risk for congenital malformations, compared to a control group of unexposed children. The rate of congenital malformations (4.3%) was similar to the rate in the general population. A population-based, case-control study from the National Birth Defects Prevention Study showed that 11,610 children with prenatal exposure to acetaminophen during the first trimester had no increased risk of major birth defects compared to 4,500 children in the control group. Other epidemiological data showed similar results. However, these studies cannot definitely establish the absence of any risk because of methodological limitations, including recall bias.

### Animal Data

Studies in pregnant rats that received oral acetaminophen during organogenesis at doses up to 0.85 times the maximum human daily dose (MHDD = 4 grams/day, based on a body surface area comparison) showed evidence of fetotoxicity (reduced fetal weight and length) and a dose-related increase in bone variations (reduced ossification and rudimentary rib changes). Offspring had no evidence of external, visceral, or skeletal malformations. When pregnant rats received oral acetaminophen throughout gestation at doses of 1.2 times the MHDD (based on a body surface area comparison), areas of necrosis occurred in both the liver and kidney of pregnant rats and fetuses. These effects did not occur in animals that received oral acetaminophen at doses 0.3 times the MHDD, based on a body surface area comparison.

In a continuous breeding study, pregnant mice received 0.25, 0.5, or 1.0% acetaminophen via the diet (357, 715, or 1,430 mg/kg/day). These doses are approximately 0.43, 0.87, and 1.7 times the MHDD, respectively, based on a body surface area comparison. A dose related reduction in body weights of fourth and fifth

litter offspring of the treated mating pair occurred during lactation and post-weaning at all doses. Animals in the high dose group had a reduced number of litters per mating pair, male offspring with an increased percentage of abnormal sperm, and reduced birth weights in the next generation pups.

## 8.2 Lactation

### Risk Summary

There is no information regarding the presence of acetaminophen in human milk, the effects on the breastfed infant, or the effects on milk production. However, limited published studies report that acetaminophen passes rapidly into human milk with similar levels in the milk and plasma. Average and maximum neonatal doses of 1% and 2%, respectively, of the weight-adjusted maternal dose are reported after a single oral administration of 1 gram APAP. There is one well-documented report of a rash in a breast-fed infant that resolved when the mother stopped acetaminophen use and recurred when she resumed acetaminophen use. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for acetaminophen and any potential adverse effects on the breastfed infant from acetaminophen or from the underlying maternal condition.

## 8.3 Females and Males of Reproductive Potential

Based on animal data use of acetaminophen may cause reduced fertility in males and females of reproductive potential. It is not known whether these effects on fertility are reversible. Published animal studies reported that oral acetaminophen treatment of male animals at doses that are 1.2 times the MHDD and greater (based on a body surface area comparison) result in decreased testicular weights, reduced spermatogenesis, and reduced fertility. In female animals given the same doses, reduced implantation sites were reported. Additional published animal studies indicate that acetaminophen exposure in utero adversely impacts reproductive capacity of both male and female offspring at clinically relevant exposures [see NONCLINICAL TOXICOLOGY (13.1)].

## 8.4 Pediatric Use

### Treatment of Acute Pain

The safety and effectiveness of acetaminophen for the treatment of acute pain in pediatric patients ages 2 years and older is supported by evidence from adequate and well-controlled studies of acetaminophen in adults and safety and pharmacokinetic data from adult and 483 pediatric patients across all age groups [see DOSAGE AND ADMINISTRATION (2.3) and PHARMACOKINETICS (12.3)].

The effectiveness of acetaminophen for the treatment of acute pain in pediatric patients younger than 2 years of age has not been established.

In patients younger than 2 years, efficacy was not demonstrated in a double-blind, placebo-controlled study of 198 pediatric patients younger than 2 years. Pediatric patients less than 2 years of age, including neonates from 28 to 40 weeks gestational age at birth, were randomized to receive opioid plus acetaminophen or opioid plus placebo. No difference in analgesic effect of intravenous acetaminophen, measured by assessment of reduced need for additional opioid treatment for pain control was observed.

## Treatment of Fever

The safety and effectiveness of acetaminophen for the treatment of fever in pediatric patients, including premature neonates born at  $\geq 32$  weeks gestational age is supported by adequate and well-controlled studies of acetaminophen in adults, clinical studies in 244 pediatric patients 2 years and older, and safety and pharmacokinetic data from 239 patients younger than 2 years including neonates  $\geq 32$  weeks gestational age.

### 8.5 Geriatric Use

Of the total number of subjects in clinical studies of acetaminophen, 15% were age 65 and over, while 5% were age 75 and over. No overall differences in safety or effectiveness were observed between these subjects and younger subjects, and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out.

### 8.6 Patients with Hepatic Impairment

Acetaminophen is contraindicated in patients with severe hepatic impairment or severe active liver disease and should be used with caution in patients with hepatic impairment or active liver disease [ see WARNINGS AND PRECAUTIONS (5.1) and CLINICAL PHARMACOLOGY (12)]. A reduced total daily dose of acetaminophen may be warranted.

### 8.7 Patients with Renal Impairment

In cases of severe renal impairment (creatinine clearance  $\leq 30$  mL/min), longer dosing intervals and a reduced total daily dose of acetaminophen may be warranted.

## 10 OVERDOSAGE

### Signs and Symptoms

In acute acetaminophen overdosage, dose-dependent, potentially fatal hepatic necrosis is the most serious adverse effect. Renal tubular necrosis, hypoglycemic coma, and thrombocytopenia may also occur. Plasma acetaminophen levels  $> 300$  mcg/mL at 4 hours after oral ingestion were associated with hepatic damage in 90% of patients; minimal hepatic damage is anticipated if plasma levels at 4 hours are  $< 150$  mcg/mL or  $< 37.5$  mcg/mL at 12 hours after ingestion. Early symptoms following a potentially hepatotoxic overdose may include: nausea, vomiting, diaphoresis, and general malaise. Clinical and laboratory evidence of hepatic toxicity may not be apparent until 48 to 72 hours post- ingestion.

### Treatment

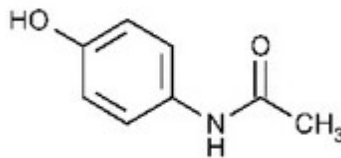
If an acetaminophen overdose is suspected, obtain a serum acetaminophen assay as soon as possible, but no sooner than 4 hours following oral ingestion. Obtain liver function studies initially and repeat at 24-hour intervals. Administer the antidote N-acetylcysteine (NAC) as early as possible. As a guide to treatment of acute ingestion, the acetaminophen level can be plotted against time since oral ingestion on a nomogram (Rumack-Matthew). The lower toxic line on the nomogram is equivalent to 150 mcg/mL at 4 hours and 37.5 mcg/mL at 12 hours. If serum level is above the lower line, administer the entire course of NAC treatment. Withhold NAC therapy if the

acetaminophen level is below the lower line.

For additional information, call a poison control center at 1-800-222-1222.

## 11 DESCRIPTION

Acetaminophen USP is a non-salicylate antipyretic and non-opioid analgesic agent. Its chemical name is N-acetyl-p-aminophenol. Acetaminophen has a molecular weight of 151.16. Its structural formula is:



Acetaminophen Injection is a sterile, clear, colorless solution, free from visible particles, non pyrogenic, isotonic formulation of acetaminophen intended for intravenous infusion. It has a pH of approximately 5.5 (5.0 to 6.2) and an osmolality of approximately 290 mOsm/kg (280 to 320 mOsm/kg). Each 100 mL contains 1,000 mg acetaminophen, USP, 3,850 mg mannitol, USP, 25 mg cysteine hydrochloride, monohydrate, USP, and 10.4 mg dibasic sodium phosphate, USP. pH is adjusted with hydrochloric acid and/or sodium hydroxide.

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

The precise mechanism of the analgesic and antipyretic properties of acetaminophen is not established but is thought to primarily involve central actions.

### 12.2 Pharmacodynamics

Acetaminophen has been shown to have analgesic and antipyretic activities in animal and human studies.

Single-doses of acetaminophen up to 3,000 mg and repeated doses of 1,000 mg every 6 hours for 48 hours have not been shown to cause a significant effect on platelet aggregation. Acetaminophen does not have any immediate or delayed effects on small-vessel hemostasis. Clinical studies of both healthy subjects and patients with hemophilia showed no significant changes in bleeding time after receiving multiple doses of oral acetaminophen.

### 12.3 Pharmacokinetics

#### Distribution

The pharmacokinetics of acetaminophen have been studied in patients and healthy subjects up to 60 years old. The pharmacokinetic profile of acetaminophen has been demonstrated to be dose proportional in adults following administration of single-doses of 500, 650, and 1,000 mg.

The maximum concentration ( $C_{max}$ ) occurs at the end of the 15 minute intravenous infusion of acetaminophen. Compared to the same dose of oral acetaminophen, the  $C_{max}$  following administration of acetaminophen is up to 70% higher, while overall exposure (area under the concentration time curve [AUC]) is very similar.

Pharmacokinetic parameters of acetaminophen (AUC,  $C_{max}$ , terminal elimination half-life [ $T_{1/2}$ ], systemic clearance [CL], and volume of distribution at steady state [ $V_{ss}$ ]) following administration of a single intravenous dose of 15 mg/kg in children and adolescents and 1,000 mg in adults are summarized in Table 5.

Table 5. Acetaminophen Pharmacokinetic Parameters

Subpopulations	Mean (SD)				
	AUC <sub>0-6h</sub> (mcg× h/mL)	$C_{max}$ mcg/mL	$T_{1/2}$ (h)	CL (L/h/kg)	$V_{ss}$ (L/kg)
Children	38 (8)	29 (7)	3.0 (1.5)	0.34 (0.10)	1.2 (0.3)
Adolescents	41 (7)	31 (9)	2.9 (0.7)	0.29 (0.08)	1.1 (0.3)
Adults	43 (11)	28 (21)	2.4 (0.6)	0.27 (0.08)	0.8 (0.2)

The concentrations of acetaminophen observed in neonates greater than 32 weeks gestational age at birth treated with 12.5 mg/kg dose are similar to infants, children and adolescents treated with a 15 mg/kg dose, and similar to adults treated with a 1,000 mg dose.

At therapeutic levels, binding of acetaminophen to plasma proteins is low (ranging from 10% to 25%). Acetaminophen appears to be widely distributed throughout most body tissues except fat.

### Metabolism and Excretion

Acetaminophen is primarily metabolized in the liver by first-order kinetics and involves three principal separate pathways: Conjugation with glucuronide, conjugation with sulfate, and oxidation via the cytochrome P450 enzyme pathway, primarily CYP2E1, to form a reactive intermediate metabolite (N-acetyl-p-benzoquinone imine or NAPQI). With therapeutic doses, NAPQI undergoes rapid conjugation with glutathione and is then further metabolized to form cysteine and mercapturic acid conjugates.

Acetaminophen metabolites are mainly excreted in the urine. Less than 5% is excreted in the urine as unconjugated (free) acetaminophen and more than 90% of the administered dose is excreted within 24 hours.

## 13 NONCLINICAL TOXICOLOGY

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

#### Carcinogenesis

Long-term studies in mice and rats have been completed by the National Toxicology Program to evaluate the carcinogenic potential of acetaminophen. In 2-year feeding studies, F344/N rats and B6C3F1 mice were fed a diet containing acetaminophen up to 6,000 ppm. Female rats demonstrated equivocal evidence of carcinogenic activity based on increased incidences of mononuclear cell leukemia at 0.8 times the maximum human daily dose (MHDD) of 4 grams/day, based on a body surface area comparison. In contrast, there was no evidence of carcinogenic activity in male rats (0.7 times) or mice (1.2 to 1.4 times the MHDD, based on a body surface area comparison).

#### Mutagenesis

Acetaminophen was not mutagenic in the bacterial reverse mutation assay (Ames test). In contrast, acetaminophen tested positive in the in vitro mouse lymphoma assay and the in vitro chromosomal aberration assay using human lymphocytes. In the published literature, acetaminophen has been reported to be clastogenic when administered a dose of 1,500 mg/kg/day to the rat model (3.6 times the MHDD, based on a body surface area comparison). In contrast, no clastogenicity was noted at a dose of 750 mg/kg/day (1.8 times the MHDD, based on a body surface area comparison), suggesting a threshold effect.

#### Impairment of Fertility

In studies conducted by the National Toxicology Program, fertility assessments have been completed in Swiss mice via a continuous breeding study. There were no effects on fertility parameters in mice consuming up to 1.7 times the MHDD of acetaminophen, based on a body surface area comparison. Although there was no effect on sperm motility or sperm density in the epididymis, there was a significant increase in the percentage of abnormal sperm in mice consuming 1.7 times the MHDD (based on a body surface area comparison) and there was a reduction in the number of mating pairs producing a fifth litter at this dose, suggesting the potential for cumulative toxicity with



chronic administration of acetaminophen near the upper limit of daily dosing.

Published studies in rodents report that oral acetaminophen treatment of male animals at doses that are 1.2 times the MHDD and greater (based on a body surface area comparison) result in decreased testicular weights, reduced spermatogenesis, reduced fertility, and reduced implantation sites in females given the same doses. These effects appear to increase with the duration of treatment.

In a published mouse study, oral administration of 50 mg/kg acetaminophen to pregnant mice from Gestation Day 7 to delivery (0.06 times the MHDD, based on a body surface area comparison) reduced the number of primordial follicles in female offspring and reduced the percentage of full term pregnancies and number of pups born to these females exposed to acetaminophen in utero.

In a published study, oral administration of 350 mg/kg acetaminophen to pregnant rats (0.85 times the MHDD, based on a body surface area comparison) from Gestation Day 13 to 21 (dams) reduced the number of germ cells in the fetal ovary, decreased ovary weight, and reduced the number of pups per litter in F1 females as well as reduced ovary weights in F2 females.

## **14 CLINICAL STUDIES**

### **14.1 Adult Acute Pain**

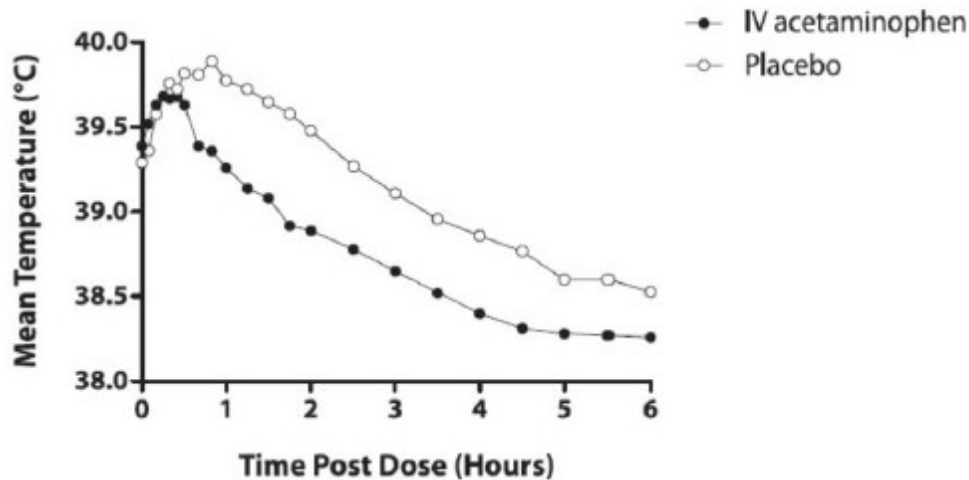
The efficacy of acetaminophen in the treatment of acute pain in adults was evaluated in two randomized, double-blind, placebo-controlled clinical trials in patients with postoperative pain.

Pain Study 1 evaluated the analgesic efficacy of repeated doses of acetaminophen 1,000 mg vs. placebo every 6 hours for 24 hours in 101 patients with moderate to severe pain following total hip or knee replacement. Acetaminophen was statistically superior to placebo for reduction in pain intensity over 24 hours. There was an attendant decrease in opioid consumption, the clinical benefit of which was not demonstrated.

Pain Study 2 evaluated the analgesic efficacy of repeated doses of acetaminophen 1,000 mg every 6 hours or 650 mg every 4 hours for 24 hours versus placebo in the treatment of 244 patients with moderate to severe postoperative pain after abdominal laparoscopic surgery. Patients receiving acetaminophen experienced a statistically significant greater reduction in pain intensity over 24 hours compared to placebo.

### **14.2 Adult Fever**

The efficacy of acetaminophen 1,000 mg in the treatment of adult fever was evaluated in one randomized, double-blind, placebo-controlled clinical trial. The study was a 6-hour, single-dose, endotoxin-induced fever study in 60 healthy adult males. A statistically significant antipyretic effect of acetaminophen was demonstrated through 6 hours in comparison to placebo. The mean temperature over time is shown in Figure 1.



**Figure 1: Mean Temperature (°C) Over Time**

### 14.3 Pediatric Acute Pain and Fever

Acetaminophen was studied in pediatric patients in three active-controlled trials and three open-label safety and pharmacokinetic trials [ see USE IN SPECIFIC POPULATIONS (8.4)].

## 16 HOW SUPPLIED/STORAGE & HANDLING

Acetaminophen Injection is a sterile, clear, colorless solution, free from visible particles and is supplied as follows:

Acetaminophen Injection is supplied in the following dosage forms.  
 NDC 51662-1540-1 ACETAMINOPHEN INJECTION 1,000mg PER 100mL (10mg/mL)  
 100mL VIAL

HF Acquisition Co LLC, DBA HealthFirst  
 Mukilteo, WA 98275

Also supplied in the following manufacture supplied dosage forms  
 1,000 mg per 100 mL (10 mg/mL)

100 mL Single-Dose Vials  
packaged in a Carton of 24 NDC 55150-307-24

Acetaminophen Injection should be stored at 20°C to 25°C (68°F to 77°F) [see USP Controlled Room Temperature].

For single-dose only. The product should be used within 6 hours after opening. Do not refrigerate or freeze.

The vial stopper is not made with natural rubber latex.

Distributed by:  
AuroMedics Pharma LLC  
279 Princeton-Hightstown Rd.  
E. Windsor, NJ 08520

Manufactured by:  
Eugia Pharma Specialities Limited  
Hyderabad - 500032  
India

Acetaminophen Injection is a sterile, clear, colorless solution, free from visible particles and is supplied as follows:

Acetaminophen Injection is supplied in the following dosage forms.  
NDC 51662-1540-2 ACETAMINOPHEN INJECTION 1,000mg PER 100mL (10mg/mL)  
100mL POUCH

HF Acquisition Co LLC, DBA HealthFirst  
Mukilteo, WA 98275

Also supplied in the following manufacture supplied dosage forms

1,000 mg per 100 mL (10 mg/mL)

100 mL Single-Dose Vials  
packaged in a Carton of 24 NDC 55150-307-24

Acetaminophen Injection should be stored at 20°C to 25°C (68°F to 77°F) [see USP Controlled Room Temperature].

For single-dose only. The product should be used within 6 hours after opening. Do not refrigerate or freeze.

The vial stopper is not made with natural rubber latex.

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AuroMedics Pharma LLC  
279 Princeton-Hightstown Rd.  
E. Windsor, NJ 08520

Manufactured by:

Eugia Pharma Specialities Limited  
Hyderabad - 500032  
India

Acetaminophen Injection is a sterile, clear, colorless solution, free from visible particles and is supplied as follows:

Acetaminophen Injection is supplied in the following dosage forms.  
NDC 51662-1540-3 ACETAMINOPHEN INJECTION 1,000mg PER 100mL (10mg/mL)  
100mL (CASE OF 24)

HF Acquisition Co LLC, DBA HealthFirst  
Mukilteo, WA 98275

Also supplied in the following manufacture supplied dosage forms

1,000 mg per 100 mL (10 mg/mL)

100 mL Single-Dose Vials  
packaged in a Carton of 24 NDC 55150-307-24

Acetaminophen Injection should be stored at 20°C to 25°C (68°F to 77°F) [see USP Controlled Room Temperature].

For single-dose only. The product should be used within 6 hours after opening. Do not refrigerate or freeze.

The vial stopper is not made with natural rubber latex.

Distributed by:  
AuroMedics Pharma LLC  
279 Princeton-Hightstown Rd.  
E. Windsor, NJ 08520

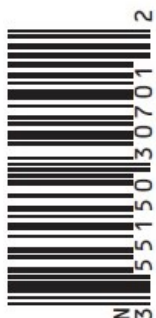
Manufactured by:  
Eugia Pharma Specialities Limited  
Hyderabad - 500032  
India

**PRINCIPAL DISPLAY PANEL - 51662-1540-1 SERIALIZED VIAL LABELING**

51662-1540-1 - SERIALIZED VIAL LABELING



VIAL LABEL



55150130701 2

AUROMEDICS

Rx only NDC 55150-307-01

**Acetaminophen Injection**

**1,000 mg per 100 mL (10 mg / mL)**

**For Intravenous Use Only**

Single Dose Vial. Doses less than 1,000 mg require aseptic transfer to a separate container prior to dispensing. Discard unused portion.

100 mL

Each 100 mL contains 1,000 mg acetaminophen, USP, 3,850 mg mannitol, USP, 25 mg cysteine hydrochloride, monohydrate, USP, 10.4 mg dibasic sodium phosphate, USP.

pH may have been adjusted with hydrochloric acid and/or sodium hydroxide.

See Package Insert for recommended dosage and Full Prescribing Information.

Store at controlled room temperature, 20°C to 25°C (68°F to 77°F).

Do not refrigerate or freeze.

Single Dose Vial. Doses less than 1,000 mg require aseptic transfer to a separate container prior to dispensing. Discard unused portion.

**1,000 mg per 100 mL (10 mg / mL)**

**Acetaminophen Injection**

Distributed by:  
**AuroMedics Pharma LLC**  
279 Princeton-Hightstown Rd.  
E. Windsor, NJ 08520

Made in India

Code: TS/DRUGS/13/2010

P1418957

### PRINCIPAL DISPLAY PANEL, POUCH LABEL

#### 51662-1540-2 POUCH LABEL


**ACETAMINOPHEN INJECTION 1,000mg PER 100mL (10mg/mL) 100mL VIAL**

NDC: 51662-1540-2  
LOT: 123456  
EXP: 2030-01-01

(01) 00351662154021  
(10) 123456  
(17) 300101  
(21) 98608614064

FOR INTRAVENOUS USE ONLY. DOSES LESS THAN 1,000 mg REQUIRE ASEPTIC TRANSFER TO A SEPARATE CONTAINER PRIOR TO DISPENSING. DISCARD UNUSED PORTION. EACH 100 mL CONTAINS 1,000 mg ACETAMINOPHEN, USP, 3,850 mg MANNITOL, USP, 25 mg CYSTEINE HYDROCHLORIDE, MONOHYDRATE, USP, 10.4 mg DIBASIC SODIUM PHOSPHATE, USP. pH MAY HAVE BEEN ADJUSTED WITH HYDROCHLORIC ACID AND/OR SODIUM HYDROXIDE. SEE PACKAGE INSERT FOR RECOMMENDED DOSAGE AND FULL PRESCRIBING INFORMATION. STORE AT CONTROLLED ROOM TEMPERATURE, 20°C TO 25°C (68°F TO 77°F) DO NOT REFRIGERATE OR FREEZE. THE VIAL STOPPER IS NOT MADE WITH NATURAL RUBBER LATEX.

See manufacturer's package insert  
ORIGINAL MFG NDC: 55150-307-24  
RX ONLY  
Manufactured by HF Acquisition Co., LLC  
Mukilteo, WA 98275



# PRINCIPAL DISPLAY PANEL, CASE LABELING

## 51662-1540-3 CASE LABEL

ACETAMINOPHEN INJECTION 1,000mg PER  
100mL (10mg/mL) 100mL VIAL (CASE OF 24)

NDC: 51662-1540-3  
LOT: 123456  
EXP: 2030-01-01

(0) 00551662154038  
(10) 123456  
(17) 300101  
(21) 57325711534

FOR INTRAVENOUS USE ONLY. DOSES LESS THAN 1,000mg REQUIRE  
ASEPTIC TRANSFER TO A SEPARATE CONTAINER PRIOR TO DISPENSING.  
DISCARD UNUSED PORTION. EACH 100mL CONTAINS 1,000mg  
ACETAMINOPHEN, USP, 3,850mg MANNITOL, USP, 25mg CYSTEINE  
HYDROCHLORIDE, MONOHYDRATE, USP, 10.4mg DIBASIC SODIUM  
PHOSPHATE, USP, pH MAY HAVE BEEN ADJUSTED WITH HYDROCHLORIC  
ACID AND/OR SODIUM HYDROXIDE. SEE PACKAGE INSERT FOR  
RECOMMENDED DOSAGE AND FULL PRESCRIBING INFORMATION. STORE AT  
CONTROLLED ROOM TEMPERATURE, 20°C TO 25°C (68°F TO 77°F) DO NOT  
REFRIGERATE OR FREEZE. THE VIAL STOPPER IS NOT MADE WITH NATURAL  
RUBBER LATEX.

See manufacturer's package insert  
ORIGINAL MFG NDC: 55150-307-24

RX ONLY

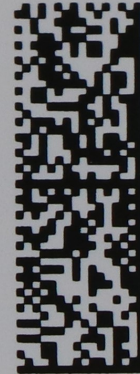
Manufactured by HF Acquisition Co., LLC  
Mukilteo, WA 98275



(01)00351662154038  
(17)230919  
(21)351662141212  
(10)HF1234TESTING

SEE MANUFACTURE'S INSERT  
DISTRIBUTED BY HF ACQUISITIONS CO., LLC  
MUKILTEO, WA 98275

RX ONLY



## ACETAMINOPHEN

acetaminophen injection, solution

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:51662-1540(NDC:55150-307)
<b>Route of Administration</b>	INTRAVENOUS		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ACETAMINOPHEN (UNII: 362O9ITL9D) (ACETAMINOPHEN - UNII:362O9ITL9D)	ACETAMINOPHEN	10 mg in 1 mL



## Inactive Ingredients

Ingredient Name	Strength
<b>SODIUM HYDROXIDE</b> (UNII: 55X04QC32I)	
<b>CYSTEINE HYDROCHLORIDE</b> (UNII: ZT934N0X4W)	
<b>NITROGEN</b> (UNII: N762921K75)	
<b>WATER</b> (UNII: 059QF0KO0R)	
<b>MANNITOL</b> (UNII: 3OWL53L36A)	
<b>SODIUM PHOSPHATE, DIBASIC, DIHYDRATE</b> (UNII: 94255I6E2T)	
<b>HYDROCHLORIC ACID</b> (UNII: QTT17582CB)	

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:51662-1540-3	24 in 1 CASE	04/09/2022	
1	NDC:51662-1540-2	1 in 1 POUCH		
1	NDC:51662-1540-1	100 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product		

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA210969	04/09/2022	

**Labeler** - HF Acquisition Co LLC, DBA HealthFirst (045657305)

**Registrant** - HF Acquisition Co LLC, DBA HealthFirst (045657305)

## Establishment

Name	Address	ID/FEI	Business Operations
HF Acquisition Co LLC, DBA HealthFirst		045657305	relabel(51662-1540)

Revised: 6/2024

HF Acquisition Co LLC, DBA HealthFirst