

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use Risedronate sodium safely and effectively. See Full Prescribing Information for Risedronate sodium.

Risedronate sodium delayed-release tablets

Initial U.S. Approval: 1998

-----RECENT MAJOR CHANGES-----
Contraindications (4) 03/2015
Warnings and Precautions (5.4) 04/2015

-----INDICATIONS AND USAGE-----
Risedronate sodium is a bisphosphonate in a delayed-release formulation and is indicated for treatment of postmenopausal osteoporosis (1.1)
Limitations of Use
Optimal duration of use has not been determined. For patients at low-risk for fracture, consider drug discontinuation after 3 to 5 years of use (1.2)

-----DOSAGE AND ADMINISTRATION-----
One 35 mg delayed-release tablet once-a-week (2.1)
Instructions for use:
• Take Risedronate sodium in the morning immediately following breakfast with at least 4 ounces of plain water (2.2)
• Avoid lying down for 30 minutes after taking Risedronate sodium (2.2)
• Take supplemental calcium and vitamin D if dietary intake is inadequate (2.3)

-----DOSAGE FORMS AND STRENGTHS-----
Delayed-release tablets: 35 mg (3)

-----CONTRAINDICATIONS-----
• Abnormalities of the esophagus which delay esophageal emptying such as stricture or achalasia (4, 5.2)
• Inability to stand or sit upright for at least 30 minutes (4, 5.2)
• Hypocalcemia (4, 5.3)
• Known hypersensitivity to any component of this product (4, 6.2)

-----WARNINGS AND PRECAUTIONS-----
• Products Containing Same Active Ingredient: Patients receiving Actonel should not be treated with Risedronate sodium (5.1)
• Upper Gastrointestinal Adverse Reactions can occur: Instruct patients to follow dosing instructions.
Discontinue use if new or worsening symptoms occur (5.2)
• Hypocalcemia may worsen and must be corrected prior to use (5.3)
• Osteonecrosis of the Jaw has been reported (5.4)
• Severe Bone, Joint, Muscle Pain may occur: Discontinue use if severe symptoms develop (5.5, 5.2)
• Atypical Femur Fractures have been reported. Patients with new thigh or groin pain should be evaluated to rule out a femoral fracture (5.6)

-----ADVERSE REACTIONS-----
Most common adverse reactions (greater than 5%) include: diarrhea, influenza, arthralgia, back pain, and abdominal pain (6.1)
Hypersensitivity reactions (angioedema, generalized rash, bullous skin reactions, Stevens-Johnson syndrome, and toxic epidermal necrolysis), and eye inflammation (iritis, uveitis) have been reported rarely (6.2)

-----DRUG INTERACTIONS-----
Calcium supplements, antacids, proton pump inhibitors (PPIs), H₂ blockers, magnesium-based supplements or laxatives, and iron preparations interfere with the absorption of Risedronate sodium (7.1, 7.2)

-----USE IN SPECIFIC POPULATIONS-----
Risedronate sodium is not recommended for use in patients with severe renal impairment (creatinine clearance less than 30 mL/min) (5.6, 8.6, 12.3)

-----PATIENT COUNSELING INFORMATION AND MEDICATION GUIDE-----
See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.
Revised: 04/2015

FULL PRESCRIBING INFORMATION: CONTENTS*

1 INDICATIONS AND USAGE
1.1 Postmenopausal Osteoporosis
1.2 Important Limitations of Use
2 DOSAGE AND ADMINISTRATION
2.1 Treatment of Postmenopausal Osteoporosis
2.2 Important Administration Instructions
2.3 Recommendations for Calcium and Vitamin D Supplement
2.4 Administration Instructions for Missed Doses
3 DOSAGE FORMS AND STRENGTHS
Delayed-release tablets: 35 mg, yellow, oval-shaped, and engraved with EC 35 on one side.
4 CONTRAINDICATIONS
Risedronate sodium is contraindicated in patients with the following conditions:
• Abnormalities of the esophagus which delay esophageal emptying such as stricture or achalasia [see Warnings and Precautions (5.2)]
• Inability to stand or sit upright for at least 30 minutes [see Dosage and Administration (2), Warnings and Precautions (5.2)]
• Hypocalcemia [see Warnings and Precautions (5.3)]
• Known hypersensitivity to any component of this product.
Angioedema, generalized rash, bullous skin reactions, Stevens-Johnson syndrome and toxic epidermal necrolysis have been reported [see Adverse Reactions (6.2)]
5 WARNINGS AND PRECAUTIONS
5.1 Drug Products with the Same Active Ingredient
Risedronate sodium contains the same active ingredient found in Actonel®. A patient being treated with Actonel should not receive Risedronate sodium.

5.2 Upper Gastrointestinal Adverse Reactions
Risedronate sodium, like other bisphosphonates administered orally, may cause local irritation of the upper gastrointestinal mucosa. Because of these possible irritant effects and a potential for worsening of the underlying disease, caution should be used when Risedronate sodium is given to patients with active upper gastrointestinal problems (such as known Barrett's esophagus, dysphagia, other esophageal diseases, gastric ulcers, or ulcers) [see Contraindications (4), Adverse Reactions (6.1), Information for Patients (17)].

5.3 Mineral Metabolism
Hypocalcemia has been reported in patients taking Risedronate sodium. Treat hypocalcemia and other disturbances of bone and mineral metabolism should be effectively treated before starting Risedronate sodium therapy. Instruct patients to take supplemental calcium and vitamin D if their dietary intake is inadequate. Adequate intake of calcium and vitamin D is important in all patients [see Contraindications (4), Adverse Reactions (6.1), Information for Patients (17)].

5.4 Jaw Osteonecrosis
Osteonecrosis of the jaw (ONJ), which can occur spontaneously, is generally associated with tooth extraction and/or local infection with delayed healing, and has been reported in patients taking bisphosphonates, including risedronate. Known risk factors for osteonecrosis of the jaw include invasive dental procedures (for example, tooth extraction, dental implants, bone surgery), diagnosis of cancer, concomitant therapies (for example, chemotherapy, corticosteroids, angiogenesis inhibitors), poor oral hygiene, and co-morbid disorders (for example, periodontal and/or other pre-existing dental disease, anemia, coagulopathy, infection, ill-fitting dentures). The risk of ONJ may increase with duration of exposure to bisphosphonates.

5.5 Musculoskeletal Pain
In postmarketing experience, there have been reports of severe and occasionally incapacitating bone, joint, and/or muscle pain in patients taking bisphosphonates [see Adverse Reactions (6.2)]. The time to onset of symptoms varied from one day to several months after starting the drug. Most patients had relief of symptoms after stopping medication. A subset had recurrence of symptoms when rechallenged with the same drug or another bisphosphonate. Consider discontinuing use if severe symptoms develop.
5.6 Atypical Subtrochanteric and Diaphyseal Femoral Fractures
Atypical, low-energy, or low trauma fractures of the femoral shaft have been reported in bisphosphonate-treated patients. These fractures can occur anywhere in the femoral shaft from just below the lesser trochanter to above the supracondylar flare and are transverse or short oblique in orientation without evidence of comminution. Causality has not been established as these fractures also occur in osteoporotic patients who have not been treated with bisphosphonates.
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5.7 Renal Impairment
Risedronate sodium is not recommended for use in patients with severe renal impairment (creatinine clearance less than 30 mL/min) (5.6, 8.6, 12.3).
5.8 Laboratory Test Interactions
Bisphosphonates are known to interfere with the use of bone-imaging agents. Specific studies with Risedronate sodium have not been performed.
6 ADVERSE REACTIONS
6.1 Clinical Studies Experience
Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.
6.2 Postmarketing Experience
The incidence of all-cause mortality was 0.0% in the Risedronate sodium 35 mg once-a-week group and 0.8% in the risedronate sodium immediate-release 5 mg daily group. The incidence of serious adverse reactions was 6.5% in the Risedronate sodium 35 mg once-a-week group and 7.2% in the risedronate sodium immediate-release 5 mg daily group. The percentage of patients who withdrew from the study due to adverse reactions was 9.1% in the Risedronate sodium 35 mg once-a-week group and 8.1% in the risedronate sodium immediate-release 5 mg daily group. The overall safety and tolerability profiles of the two dosing regimens were similar. Table 1 lists adverse reactions reported in greater than or equal to 2% of patients. Adverse reactions are shown without attribution of causality.

6.3 Postmarketing Experience
The risk of severe esophageal adverse experiences appears to be greater in patients who lie down after taking oral bisphosphonates and/or who fail to swallow it with the recommended 4 ounces of water, and/or who continue to take oral bisphosphonates after developing symptoms suggestive of esophageal irritation. Therefore, it is very important that the full dosing instructions are provided to, and understood by, the patient [see Dosage and Administration (2)]. In patients who cannot comply with dosing instructions due to mental disability, therapy with Risedronate sodium should be used under appropriate supervision.

6.4 Pediatric Use
There have been post-marketing reports of gastric and duodenal ulcers with oral bisphosphonate use, some severe and with complications, although no increased risk was observed in controlled clinical trials.

6.5 Hypocalcemia
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7 DRUG INTERACTIONS
7.1 Calcium Supplements/Antacids
7.2 Histamine 2 (H₂) Blockers and Proton Pump Inhibitors (PPIs)
7.3 Hormone Therapy
7.4 Aspirin/Nonsteroidal Anti-Inflammatory Drugs
8 USE IN SPECIFIC POPULATIONS
8.1 Pregnancy
8.2 Nursing Mothers
8.3 Pediatric Use
8.4 Geriatric Use
8.5 Renal Impairment
8.6 Hepatic 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
13.2 Animal Toxicology and/or Pharmacology
14 CLINICAL STUDIES
14.1 Treatment of Osteoporosis in Postmenopausal Women
16 HOW SUPPLIED/STORAGE AND HANDLING
17 PATIENT COUNSELING INFORMATION
*Sections or subsections omitted from the Full Prescribing Information are not listed.

FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 Postmenopausal Osteoporosis
Risedronate sodium is indicated for the treatment of osteoporosis in postmenopausal women. In postmenopausal women, risedronate sodium has been shown to reduce the incidence of vertebral fractures and a composite endpoint of nonvertebral osteoporosis-related fractures [see Clinical Studies (14.1)].

1.2 Important Limitations of Use
The optimal duration of use has not been determined. The safety and effectiveness of Risedronate sodium for the treatment of osteoporosis are based on clinical data of one year duration. All patients on bisphosphonate therapy should have the need for continued therapy re-evaluated on a periodic basis. Patients at low-risk for fracture should be considered for drug discontinuation after 3 to 5 years of use. Patients who discontinue therapy should have their risk for fracture re-evaluated periodically.

2 DOSAGE AND ADMINISTRATION

2.1 Treatment of Postmenopausal Osteoporosis [see Indications and Usage (1.1)]
The recommended regimen is:
• one 35 mg delayed-release tablet orally, taken once-a-week.

2.2 Important Administration Instructions
Instruct patients to do the following:
• Take Risedronate sodium in the morning immediately following breakfast. Risedronate sodium should be taken immediately following breakfast and not under fasting conditions because of a higher risk of abdominal pain if taken before breakfast when fasting.
• Swallow Risedronate sodium whole while in an upright position and with at least 4 ounces of plain water to facilitate delivery to the stomach. Avoid lying down for 30 minutes after taking the medication [see Warnings and Precautions (5.2)].
• Do not chew, cut, or crush Risedronate sodium tablets.

2.3 Recommendations for Calcium and Vitamin D Supplement
Instruct patients to take supplemental calcium and vitamin D if dietary intake is inadequate [see Warnings and Precautions (5.3)] and to take calcium supplements, antacids, magnesium-based supplements or laxatives, and iron preparations at a different time of the day as they interfere with the absorption of Risedronate sodium.

2.4 Administration Instructions for Missed Doses

If the once-weekly dose is missed, instruct patients to take one tablet on the morning after they remember and return to taking one tablet once-a-week, as originally scheduled on their chosen day. Patients should not take two tablets on the same day.

3 DOSAGE FORMS AND STRENGTHS
Delayed-release tablets: 35 mg, yellow, oval-shaped, and engraved with EC 35 on one side.

4 CONTRAINDICATIONS
Risedronate sodium is contraindicated in patients with the following conditions:
• Abnormalities of the esophagus which delay esophageal emptying such as stricture or achalasia [see Warnings and Precautions (5.2)]
• Inability to stand or sit upright for at least 30 minutes [see Dosage and Administration (2), Warnings and Precautions (5.2)]
• Hypocalcemia [see Warnings and Precautions (5.3)]
• Known hypersensitivity to any component of this product.
Angioedema, generalized rash, bullous skin reactions, Stevens-Johnson syndrome and toxic epidermal necrolysis have been reported [see Adverse Reactions (6.2)]

5 WARNINGS AND PRECAUTIONS
5.1 Drug Products with the Same Active Ingredient
Risedronate sodium contains the same active ingredient found in Actonel®. A patient being treated with Actonel should not receive Risedronate sodium.

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5.3 Mineral Metabolism
Hypocalcemia has been reported in patients taking Risedronate sodium. Treat hypocalcemia and other disturbances of bone and mineral metabolism should be effectively treated before starting Risedronate sodium therapy. Instruct patients to take supplemental calcium and vitamin D if their dietary intake is inadequate. Adequate intake of calcium and vitamin D is important in all patients [see Contraindications (4), Adverse Reactions (6.1), Information for Patients (17)].

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5.5 Musculoskeletal Pain
In postmarketing experience, there have been reports of severe and occasionally incapacitating bone, joint, and/or muscle pain in patients taking bisphosphonates [see Adverse Reactions (6.2)]. The time to onset of symptoms varied from one day to several months after starting the drug. Most patients had relief of symptoms after stopping medication. A subset had recurrence of symptoms when rechallenged with the same drug or another bisphosphonate. Consider discontinuing use if severe symptoms develop.
5.6 Atypical Subtrochanteric and Diaphyseal Femoral Fractures
Atypical, low-energy, or low trauma fractures of the femoral shaft have been reported in bisphosphonate-treated patients. These fractures can occur anywhere in the femoral shaft from just below the lesser trochanter to above the supracondylar flare and are transverse or short oblique in orientation without evidence of comminution. Causality has not been established as these fractures also occur in osteoporotic patients who have not been treated with bisphosphonates.
Atypical femur fractures most commonly occur with minimal or no trauma to the affected area. They may be bilateral and many patients report prodromal pain in the affected area, usually presenting as dull, aching thigh pain, weeks to months before a complete fracture occurs. A number of reports note that patients were also receiving treatment with glucocorticoids (for example, prednisone) at the time of fracture.
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5.7 Renal Impairment
Risedronate sodium is not recommended for use in patients with severe renal impairment (creatinine clearance less than 30 mL/min) (5.6, 8.6, 12.3).
5.8 Laboratory Test Interactions
Bisphosphonates are known to interfere with the use of bone-imaging agents. Specific studies with Risedronate sodium have not been performed.

6 ADVERSE REACTIONS
6.1 Clinical Studies Experience
Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.
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The incidence of all-cause mortality was 0.0% in the Risedronate sodium 35 mg once-a-week group and 0.8% in the risedronate sodium immediate-release 5 mg daily group. The incidence of serious adverse reactions was 6.5% in the Risedronate sodium 35 mg once-a-week group and 7.2% in the risedronate sodium immediate-release 5 mg daily group. The percentage of patients who withdrew from the study due to adverse reactions was 9.1% in the Risedronate sodium 35 mg once-a-week group and 8.1% in the risedronate sodium immediate-release 5 mg daily group. The overall safety and tolerability profiles of the two dosing regimens were similar. Table 1 lists adverse reactions reported in greater than or equal to 2% of patients. Adverse reactions are shown without attribution of causality.

6.3 Postmarketing Experience
The risk of severe esophageal adverse experiences appears to be greater in patients who lie down after taking oral bisphosphonates and/or who fail to swallow it with the recommended 4 ounces of water, and/or who continue to take oral bisphosphonates after developing symptoms suggestive of esophageal irritation. Therefore, it is very important that the full dosing instructions are provided to, and understood by, the patient [see Dosage and Administration (2)]. In patients who cannot comply with dosing instructions due to mental disability, therapy with Risedronate sodium should be used under appropriate supervision.

6.4 Pediatric Use
There have been post-marketing reports of gastric and duodenal ulcers with oral bisphosphonate use, some severe and with complications, although no increased risk was observed in controlled clinical trials.

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For patients requiring invasive dental procedures, discontinuation of bisphosphonate treatment may reduce the risk for ONJ. Clinical judgment of the treating physician and/or oral surgeon should guide the management plan of each patient based on individual benefit/risk assessment.

Patients who develop ONJ while on bisphosphonate therapy should receive care by an oral surgeon. In these patients, extensive dental surgery to treat ONJ may exacerbate the condition. Discontinuation of bisphosphonate therapy should be considered based on individual benefit/risk assessment [see Adverse Reactions (6.2)].

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Atypical, low-energy, or low trauma fractures of the femoral shaft have been reported in bisphosphonate-treated patients. These fractures can occur anywhere in the femoral shaft from just below the lesser trochanter to above the supracondylar flare and are transverse or short oblique in orientation without evidence of comminution. Causality has not been established as these fractures also occur in osteoporotic patients who have not been treated with bisphosphonates.
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Atypical femur fractures most commonly occur with minimal or no trauma to the affected area. They may be bilateral and many patients report prodromal pain in the affected area, usually presenting as dull, aching thigh pain, weeks to months before a complete fracture occurs. A number of reports note that patients were also receiving treatment with glucocorticoids (for example, prednisone) at the time of fracture.

6.9 Renal Impairment
Risedronate sodium is not recommended for use in patients with severe renal impairment (creatinine clearance less than 30 mL/min) (5.6, 8.6, 12.3).
6.10 Laboratory Test Interactions
Bisphosphonates are known to interfere with the use of bone-imaging agents. Specific studies with Risedronate sodium have not been performed.

7 DRUG INTERACTIONS
7.1 Calcium Supplements/Antacids
7.2 Histamine 2 (H₂) Blockers and Proton Pump Inhibitors (PPIs)
7.3 Hormone Therapy
7.4 Aspirin/Nonsteroidal Anti-Inflammatory Drugs
8 USE IN SPECIFIC POPULATIONS
8.1 Pregnancy
8.2 Nursing Mothers
8.3 Pediatric Use
8.4 Geriatric Use
8.5 Renal Impairment
8.6 Hepatic 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
13.2 Animal Toxicology and/or Pharmacology
14 CLINICAL STUDIES
14.1 Treatment of Osteoporosis in Postmenopausal Women
16 HOW SUPPLIED/STORAGE AND HANDLING
17 PATIENT COUNSELING INFORMATION
*Sections or subsections omitted from the Full Prescribing Information are not listed.

Acute Phase Reactions: Symptoms consistent with acute phase reaction have been reported with bisphosphonate use. The overall incidence of acute phase reaction was 2.3% in the Risedronate sodium 35 mg once-a-week group and 1.3% in the risedronate sodium immediate-release 5 mg daily group. These incidence rates are based on reporting of one or more pre-specified acute phase reaction-like symptoms within 3 days of the first dose and for a duration of 7 days or less.

Gastrointestinal Adverse Reactions: Adverse reactions related to the upper gastrointestinal tract occurred in 16% of subjects treated with Risedronate sodium 35 mg once-a-week and 15% of subjects treated with risedronate sodium immediate-release 5 mg daily. The incidence of upper gastrointestinal tract adverse reactions in the Risedronate sodium 35 mg once-a-week and risedronate sodium immediate-release 5 mg daily groups were: abdominal pain (5.2% versus 2.9%), dyspepsia (3.9% versus 3.9%), upper abdominal pain (2.9% versus 2.3%), gastritis (1.0% versus 1.0%), and gastroesophageal reflux disease (1.0% versus 1.6%). Study discontinuation due to abdominal pain occurred in 1.3% of the Risedronate sodium 35 mg once-a-week group and 0.7% of the risedronate sodium immediate-release 5 mg daily group.

Musculoskeletal Adverse Reactions: Selected musculoskeletal adverse reactions were reported in 16% of subjects treated with Risedronate sodium 35 mg once-a-week and 15% of subjects treated with risedronate sodium immediate-release 5 mg daily. The incidence of musculoskeletal adverse reactions in the Risedronate sodium 35 mg once-a-week and risedronate sodium immediate-release 5 mg daily groups were: arthralgia (6.8% versus 7.8%), back pain (6.8% versus 5.9%), musculoskeletal pain (2.0% versus 1.6%), and myalgia (1.3% versus 1.0%).

Laboratory Test Findings:
Parathyroid hormone: The effect of Risedronate sodium 35 mg once-a-week and risedronate sodium immediate-release 5 mg daily on parathyroid hormone was evaluated in postmenopausal women with osteoporosis. At week 52, in subjects with normal levels at baseline, PTH levels greater than 65 pg/mL (upper limit of normal) were noted in 9% of subjects receiving Risedronate sodium 35 mg once-a-week and 8% of subjects receiving risedronate sodium immediate-release 5 mg daily. In subjects with normal levels at baseline, PTH levels were greater than 97 pg/mL (1.5 times the upper limit of normal) were seen in 2% of subjects receiving Risedronate sodium 35 mg once-a-week and no subjects receiving risedronate sodium immediate-release 5 mg daily. There were no clinically significant differences between treatment groups for levels of calcium, phosphorus and magnesium.

Daily Dosing with risedronate sodium immediate-release 5 mg tablets
The safety of risedronate sodium immediate-release 5 mg once daily in the treatment of postmenopausal osteoporosis was assessed in four randomized, double-blind, placebo-controlled multinational trials of 3232 women aged 38 to 85 years with postmenopausal osteoporosis. The duration of the trials was up to three years, with 1619 patients exposed to placebo and 1613 patients exposed to risedronate sodium immediate-release 5 mg daily. Patients with pre-existing gastrointestinal disease and concom

noted in male rats after 13 weeks of treatment at oral doses approximately 5 times the human dose. There was moderate-to-severe spermatid maturation block after 13 weeks in male dogs at an oral dose approximately 6 times the human dose. These findings tended to increase in severity with increased dose and exposure time.

Dosing multiples provided above are based on the recommended human Page's disease dose of 30 mg/day and normalized using body surface area (mg/m²). Actual doses were 24 mg/kg/day in rats, 32 mg/kg/day in mice, and 8, 16 and 40 mg/kg/day in dogs.

13.2 Animal Toxicology and/or Pharmacology

Risedronate demonstrated potent anti-osteoclast, antiresorptive activity in ovariectomized rats and minipigs. Bone mass and biomechanical strength were increased dose-dependently at daily oral doses up to 4 and 25 times the recommended human dose of 5 mg/day for rats and minipigs, respectively. Risedronate treatment maintained the positive correlation between BMD and bone strength and did not have a negative effect on bone structure or mineralization. In intact dogs, risedronate induced positive bone balance at the level of the bone remodeling unit at oral doses ranging from 0.5 to 1.5 times the human dose of 5 mg/day.

In dogs treated with an oral dose approximately 5 times the human dose of 5 mg/day, risedronate caused a delay in fracture healing of the radius. The observed delay in fracture healing is similar to other bisphosphonates. This effect did not occur at a dose approximately 0.5 times the human daily dose.

The Schenk rat assay, based on histologic examination of the epiphyses of growing rats after drug treatment, demonstrated that risedronate did not interfere with bone mineralization even at the highest dose tested, which was approximately 3500 times the lowest antiresorptive dose in this model (1.5 mg/kg/day) and approximately 800 times the human dose of 5 mg/day. This indicates that Risedronate sodium administered at the therapeutic dose is unlikely to induce osteomalacia.

Dosing multiples provided above are based on the recommended human osteoporosis dose of 5 mg/day and normalized using body surface area (mg/m²).

14 CLINICAL STUDIES

14.1 Treatment of Osteoporosis in Postmenopausal Women

The efficacy of Risedronate sodium 35 mg once-a-week in the treatment of postmenopausal osteoporosis was demonstrated in a randomized, double-blind, active-control trial of approximately 900 subjects. All patients in this study received supplemental calcium (1000 mg/day) and vitamin D (800 to 1000 international units/day). The primary efficacy endpoint was percent change in lumbar spine bone mineral density at 1 year.

Risedronate sodium 35 mg once-a-week administered after breakfast was shown to be non-inferior to risedronate sodium immediate-release 5 mg daily. Table 2 presents the primary efficacy analysis, percent change in lumbar spine BMD, in the intent-to-treat population with last observation carried forward (LOCF).

	Risedronate sodium immediate-release 5 mg Daily N = 307	Risedronate sodium 35 mg Once-a-Week Following Breakfast N = 307
Primary Efficacy (LOCF)		
n	270	261
LS Mean (95% CI)	3.1* (2.7, 3.5)	3.3* (2.9, 3.7)
LS Mean Difference[b] (95% CI)		-0.2 (-0.8, 0.3)
N = number of intent-to-treat patients within specified treatment; n = number of patients with values at the visit.		
*Indicates a statistically significant difference from baseline determined from 95% CI unadjusted for multiple comparisons.		
LS = Least Squares		
[a] at 1 year LOCF		
[b] LS Mean Difference is 5 mg daily minus 35 mg weekly treatment.		

Fracture efficacy with risedronate sodium immediate-release 5 mg daily. The fracture efficacy of risedronate sodium immediate-release 5 mg daily in the treatment of postmenopausal osteoporosis was demonstrated in 2 large, randomized, placebo-controlled, double-blind studies that enrolled a total of almost 4000 postmenopausal women under similar protocols. The Multinational study (VERT MN) (risedronate sodium immediate-release 5 mg daily, N = 408) was conducted primarily in Europe and Australia; a second study was conducted in North America (VERT NA) (risedronate sodium immediate-release 5 mg daily, N = 821). Patients were selected on the basis of radiographic evidence of previous vertebral fracture, and therefore, had established disease. The average number of prevalent vertebral fractures per patient at study entry was 4 in VERT MN, and 2.5 in VERT NA, with a broad range of baseline BMD levels. All patients in these studies received supplemental calcium 1000 mg/day. Patients with low 25-hydroxyvitamin D₃ levels (approximately 40 nmol/L or less) also received 500 international units/day supplemental vitamin D.

Effect on Vertebral Fractures

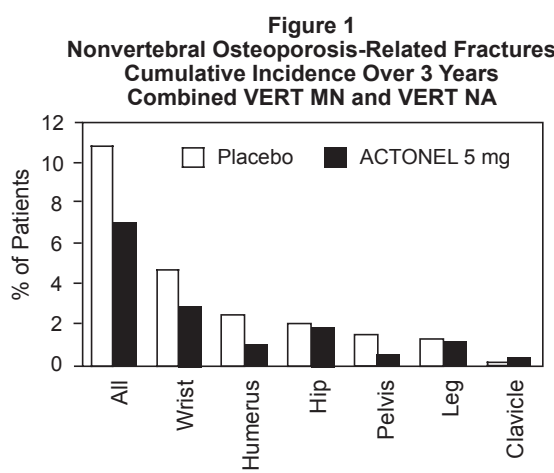
Fractures of previously undeformed vertebrae (new fractures) and worsening of pre-existing vertebral fractures were diagnosed radiographically; some of these fractures were also associated with symptoms (that is, clinical fractures). Spinal radiographs were scheduled annually and prospectively planned analyses were based on the time to a patient's first diagnosed fracture. The primary endpoint for these studies was the incidence of new and worsening vertebral fractures across the period of 0 to 3 years. Risedronate sodium immediate-release 5 mg daily significantly reduced the incidence of new and worsening vertebral fractures and of new vertebral fractures in both VERT NA and VERT MN at all time points (Table 3). The reduction in risk seen in the subgroup of patients who had 2 or more vertebral fractures at study entry was similar to that seen in the overall study population.

VERT NA	Proportion of Patients with Fracture (%) ^a		Absolute Risk Reduction (%)	Relative Risk Reduction (%)
	Placebo N = 678	Risedronate sodium 5 mg N = 696		
New and Worsening				
0 to 1 Year	7.2	3.9	3.3	49
0 to 2 Years	12.8	8.0	4.8	42
0 to 3 Years	18.5	13.9	4.6	33
New				
0 to 1 Year	6.4	2.4	4.0	65
0 to 2 Years	11.7	5.8	5.9	55
0 to 3 Years	16.3	11.3	5.0	41

VERT MN	Risedronate sodium 5 mg N = 344		Absolute Risk Reduction (%)	Relative Risk Reduction (%)
	Placebo N = 346	Risedronate sodium 5 mg N = 344		
New and Worsening				
0 to 1 Year	15.3	8.2	7.1	50
0 to 2 Years	28.3	13.9	14.4	56
0 to 3 Years	40.0	21.8	18.2	46
New				
0 to 1 Year	13.3	5.6	7.7	61
0 to 2 Years	24.7	11.6	13.1	59
0 to 3 Years	29.0	18.1	10.9	49

^aCalculated by Kaplan-Meier methodology.

Effect on Osteoporosis-Related Nonvertebral Fractures
In VERT MN and VERT NA, a prospectively planned efficacy endpoint consisted of all radiographically confirmed fractures of skeletal sites accepted as associated with osteoporosis. Fractures at these sites were collectively referred to as osteoporosis-related nonvertebral fractures. Risedronate sodium immediate-release 5 mg daily significantly reduced the incidence of nonvertebral osteoporosis-related fractures over 3 years in VERT NA (6% versus 5%; relative risk reduction 39%) and reduced the fracture incidence in VERT MN from 16% to 11%. There was a significant reduction from 11% to 7% when the studies were combined, with a corresponding 36% reduction in relative risk. Figure 1 shows the overall results as well as the results at the individual skeletal sites for the combined studies.



Histology/Histomorphometry

Bone biopsies from 110 postmenopausal women were obtained at endpoint in the VERT NA study. Patients had received placebo or daily risedronate sodium immediate-release (2.5 mg or 5 mg) for 2 to 3 years. Histologic evaluation (N = 103) showed no osteomalacia, impaired bone mineralization, or other adverse effects on bone in risedronate sodium immediate-release treated women. These findings demonstrate that bone formed during risedronate sodium immediate-release administration is of normal quality. The histomorphometric parameter mineralizing surface, an index of bone turnover, was assessed based upon baseline and post-treatment biopsy samples from 21 treated with placebo and 23 patients treated with risedronate sodium immediate-release 5 mg daily. Mineralizing surface decreased moderately in risedronate sodium immediate-release treated patients (median percent change: placebo, -21%; risedronate sodium immediate-release 5 mg daily, -74%), consistent with the known effects of treatment on bone turnover.

Effect on Height

In the two 3-year osteoporosis treatment studies, standing height was measured yearly by stadiometer. Both risedronate sodium immediate-release 5 mg daily and placebo-treated groups lost height during the studies. Patients who received risedronate sodium immediate-release 5 mg daily had a statistically significantly smaller loss of height than those who received placebo. In VERT MN, the median annual height change was -2.4 mm/yr in the placebo group compared to -1.3 mm/yr in the risedronate sodium immediate-release 5 mg daily group. In VERT NA, the median annual height change was -1.1 mm/yr in the placebo group compared to -0.7 mm/yr in the risedronate sodium immediate-release 5 mg daily group.

Effect on Bone Mineral Density

The results of 4 randomized, placebo-controlled trials in women with postmenopausal osteoporosis (VERT MN, VERT NA, BMD MN, BMD NA) demonstrate that risedronate sodium immediate-release 5 mg daily increases BMD at the spine, hip, and wrist compared to the effects seen with placebo. Table 4 displays the significant increases in BMD seen at the lumbar spine, femoral neck, femoral trochanter, and midshaft radius in these trials compared to placebo. In both VERT studies (VERT MN and VERT NA), risedronate sodium immediate-release 5 mg daily produced increases in lumbar spine BMD that were progressive over the 3 years of treatment, and were statistically significant relative to baseline and to placebo at 6 months and at all later time points.

	VERT MN ^a		VERT NA ^a		BMD MN ^a		BMD NA ^a	
	Placebo N = 323	5 mg N = 323	Placebo N = 599	5 mg N = 606	Placebo N = 161	5 mg N = 146	Placebo N = 191	5 mg N = 193
Lumbar Spine	1.0	6.6	0.8	5.0	0.0	4.0	0.2	4.8
Femoral Neck	-1.4	1.6	-1.0	1.4	-1.1	1.3	0.1	2.4
Femoral Trochanter	-1.9	3.9	-0.5	3.0	-0.6	2.5	1.3	4.0
Midshaft Radius	-1.5*	0.2*	-1.2*	0.1*	ND	ND	ND	ND

^aThe endpoint value is the value at the study's last time point for all patients who had BMD measured at that time; otherwise the last post-baseline BMD value prior to the study's last time point is used.
*The duration of the studies was 3 years.
*The duration of the studies was 1.5 to 2 years.
^bSD of the midshaft radius was measured in a subset of centers in VERT MN (placebo, N = 222; 5 mg, N = 214) and VERT NA (placebo, N = 310; 5 mg, N = 306).
ND = analysis not done

16 HOW SUPPLIED/STORAGE AND HANDLING

Risedronate sodium delayed-release tablets are: 35 mg, yellow, oval-shaped, and engraved with EC 35 on one side. NDC 0591-3876-04 Dose pack of 4 tablets. Store at controlled room temperature 20° to 25° C (68° to 77° F) [see USP].

17 PATIENT COUNSELING INFORMATION

See FDA-approved patient labeling (Medication Guide). Instruct patients to read the Medication Guide before starting therapy with Risedronate sodium and to re-read it each time the prescription is renewed.

Instruct patients that Risedronate sodium and Actonel contain the same active ingredient and if they are taking Actonel, they should not take Risedronate sodium [see Warnings and Precautions (5.1)].

Instruct patients to pay particular attention to the dosing instructions as clinical benefits may be compromised by failure to take the drug according to instructions.

Instruct patients to take Risedronate sodium in the morning, while in an upright position (sitting or standing) with at least 4 ounces of plain water immediately following breakfast. Risedronate sodium should not be taken before breakfast.

Instruct patients to swallow Risedronate sodium tablets whole. Patients should not chew, cut, or crush the tablet because of a potential for oropharyngeal irritation, and because the tablet coating is an important part of the delayed-release formulation. Patients should not lie down for 30 minutes after taking the medication.

Instruct patients that if they develop symptoms of esophageal disease (such as difficulty or pain upon swallowing, retrosternal pain or severe persistent or worsening heartburn) they should consult their physician before continuing Risedronate sodium [see Warnings and Precautions (5.2)].

If a dose of Risedronate sodium 35 mg once-a-week is missed, instruct the patient to take one tablet on the morning after they remember and return to taking one tablet once-a-week, as originally scheduled on their chosen day. Patients should not take 2 tablets on the same day.

Instruct patients to take supplemental calcium and vitamin D if dietary intake is inadequate [see Warnings and Precautions (5.3)]. Instruct patients to take calcium supplements, antacids, magnesium-based supplements or laxatives, and iron preparations at a different time of the day because they interfere with the absorption of Risedronate sodium.

Remind patients to give all of their healthcare providers an accurate medication history. Instruct patients to tell all of their healthcare providers that they are taking Risedronate sodium. Patients should be instructed that any time they have a medical problem they think may be from Risedronate sodium they should talk to their doctor.

Manufactured by:
Norwich Pharmaceuticals, Inc.
North Norwich, NY 13814

Actavis
Distributed by:
Actavis Pharma, Inc.
Parsippany, NJ 07054 USA

Medication Guide Risedronate sodium delayed-release tablets

Read this Medication Guide that comes with Risedronate sodium before you start taking it and each time you get a refill. There may be new information. This Medication Guide does not take the place of talking with your doctor about your medical condition or your treatment. Talk to your doctor if you have any questions about Risedronate sodium, there may be new information about it.

What is the most important information I should know about Risedronate sodium?

Risedronate sodium can cause serious side effects including:

1. Esophagus problems
2. Low calcium levels in your blood (hypocalcemia)
3. Severe jaw bone problems (osteonecrosis)
4. Bone, joint, or muscle pain
5. Unusual thigh bone fractures

1. Esophagus problems. Some people who take Risedronate sodium may develop problems in the esophagus (the tube that connects the mouth and the stomach). These problems include irritation, inflammation, or ulcers of the esophagus which may sometimes bleed.

- It is important that you take Risedronate sodium exactly as prescribed to help lower your chance of getting esophagus problems. (See the section "How should I take Risedronate sodium?")
- Stop taking Risedronate sodium and call your doctor right away if you get chest pain, new or worsening heartburn, or have trouble or pain when you swallow.

2. Low calcium levels in your blood (hypocalcemia). Risedronate sodium may lower the calcium levels in your blood. If you have low blood calcium before you start taking Risedronate sodium, it may get worse during treatment. Your low blood calcium must be treated before you take Risedronate sodium. Most people with low blood calcium levels do not have symptoms, but some

people may have symptoms. Call your doctor right away if you have symptoms of low blood calcium such as:

- Spasms, twitches, or cramps in your muscles
- Numbness or tingling in your fingers, toes, or around your mouth

Your doctor may prescribe calcium and vitamin D to help prevent low calcium levels in your blood, while you are taking Risedronate sodium. Take calcium and vitamin D as your doctor tells you to.

3. Severe jaw bone problems (osteonecrosis). Severe jaw bone problems may happen when you take Risedronate sodium. Your doctor should examine your mouth before you start Risedronate sodium. Your doctor may tell you to see your dentist before you start Risedronate sodium. It is important for you to practice good mouth care during treatment with Risedronate sodium.

4. Bone, joint, or muscle pain. Some people who take Risedronate sodium develop severe bone, joint, or muscle pain.

5. Unusual thigh bone fractures. Some people have developed unusual fractures in their thigh bone. Symptoms of a fracture may include new or unusual pain in your hip, groin, or thigh.

Call your doctor right away if you have any of these side effects.

What is Risedronate sodium?
Risedronate sodium is a prescription medicine used to treat osteoporosis in women after menopause.

It is not known how long Risedronate sodium works for the treatment and prevention of osteoporosis. You should see your doctor regularly to determine if Risedronate sodium is still right for you.

Risedronate sodium is not for use in children.

Who should not take Risedronate sodium? Do not take Risedronate sodium if you:

- Have certain problems with your esophagus, the tube that connects your mouth and stomach
- Cannot sit or stand up for at least 30 minutes
- Have low blood calcium (hypocalcemia)
- Are allergic to any of the other ingredients in Risedronate sodium. See the end of this leaflet for a complete list of ingredients in Risedronate sodium.

What should I tell my healthcare provider before taking Risedronate sodium? Before you take Risedronate sodium, tell your healthcare provider if you:

- Have problems swallowing
- Have stomach or digestive problems
- Have low blood calcium
- Plan to have dental surgery or teeth removed
- Have kidney problems
- Have been told you have trouble absorbing mineral in your stomach or intestines (malabsorption syndrome)
- Are pregnant or plan to become pregnant. It is not known if Risedronate sodium can harm your unborn baby.
- Are breastfeeding or plan to breastfeed. It is not known if Risedronate sodium passes into your breast milk and may harm your baby. You and your doctor should decide if you will take Risedronate sodium or breastfeed. You should not do both.

Tell your doctor about all the medicines you take, including prescription and non-prescription medicines, vitamins and herbal supplements. Certain medicines may affect how Risedronate sodium works.

Especially tell your doctor if you take:

- Actonel® or other medicines to treat osteoporosis
- calcium supplements
- antacids
- laxatives
- iron supplements

Ask your doctor or pharmacist for a list of these medications, if you are not sure.

Know the medicines you take. Keep a list of them to show your doctor and pharmacist when you get a new medicine.

How should I take Risedronate sodium?

- Take Risedronate sodium exactly as your doctor tells you.
- Take Risedronate sodium 1 time a week **right after breakfast**. Choose a day of the week to take Risedronate sodium that best fits your schedule.
- Take Risedronate sodium with at least 4 ounces (about 1-half cup) of plain water.
- Swallow Risedronate sodium tablets whole. **Do not chew, cut, or crush Risedronate sodium tablets** before swallowing. If you cannot swallow Risedronate sodium tablets whole, tell your doctor. You may need a different medicine.

After swallowing Risedronate sodium wait at least 30 minutes:

- Before you lie down. You may sit, stand or walk, and do normal activities like reading.
- Before you take other medicines, including antacids, calcium, and other supplements and vitamins.

Do not lie down for at least 30 minutes after you take Risedronate sodium.

If you miss your weekly Risedronate sodium dose, take Risedronate sodium the morning after you remember then return to your normal schedule. Do not take 2 doses at the same time.

You should take calcium and vitamin D as directed by your doctor.

If you take too much Risedronate sodium, call your doctor. Do not try to vomit. Do not lie down.

What are the possible side effects of Risedronate sodium?

Risedronate sodium may cause serious side effects:

- See "What is the most important information I should know about Risedronate sodium".

The most common side effects of Risedronate sodium include:

- diarrhea
- flu-like symptoms
- muscle pain
- back and joint pain
- upset stomach
- stomach area (abdominal) pain

You may get allergic reactions, such as hives, swelling of your face, lips, tongue, or throat.

Tell your doctor if you have any side effect that bothers you or that does not go away.

These are not all the possible side effects of Risedronate sodium. For more information, ask your doctor or pharmacist.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store Risedronate sodium?

- Store Risedronate sodium between 68° F to 77° F (20° C to 25° C).

Keep Risedronate sodium and all medicines out of the reach of children.

General information about the safe and effective use of Risedronate sodium

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information Leaflet. Do not use Risedronate sodium for a condition for which it was not prescribed. Do not give Risedronate sodium to other people, even if they have the same symptoms you have. It may harm them.

This Medication Guide summarizes the most important information about Risedronate sodium. If you would like more information, talk with your doctor. You can ask your pharmacist or doctor for information about Risedronate sodium that is written for health professionals.

For more information, go to www.actavis.com or call 1-800-272-5525.



JOB INFORMATION
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JOB #: 42500916
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COPY POSITION:

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- Please make change & reproof

Please review proofing checklist before signing and dating.

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ONLY THE ORIGINAL VERSION OF THE PATIENT INFORMATION LEAFLET AND/OR MEDICATION GUIDE IS VALID FOR THE PRODUCT LABELING

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What are the ingredients in Risedronate sodium?

Active ingredient: risedronate sodium

Inactive ingredients: Edetate disodium, ferric oxide yellow, magnesium stearate, methacrylic acid copolymer, polysorbate 80, silicified microcrystalline cellulose (ProSolv SMCC90), simethicone, sodium starch glycolate, stearic acid, talc, and triethyl citrate.

This Medication Guide has been approved by the U.S. Food and Drug Administration.

Manufactured by:
Norwich Pharmaceuticals, Inc.
North Norwich, NY 13814



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Actavis Pharma, Inc.
Parsippany, NJ 07054 USA

Content Updated: March 2015