INTUNIV®
(guanfacine)
Extended-Release Tablets

HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all the information needed to use INTUNIV® safely and effectively. See full prescribing information for INTUNIV®.
INTUNIV® (guanfacine) extended-release tablets, for oral use
Initial U.S. Approval: 1986

Recent Major Changes
Dosage and Administration (2.5) 11/2017
Warnings and Precautions (5.4) 11/2017

Indications and Usage
INTUNIV® is a central alpha2-adrenergic receptor agonist indicated for the treatment of Attention Deficit Hyperactivity Disorder (ADHD) as monotherapy and as adjunctive therapy to stimulant medications (1, 14).

DOSAGE AND ADMINISTRATION
• Recommended dose: 1 mg to 7 mg (0.05-0.12 mg/kg target weight based dose range) once daily in the morning or evening based on clinical response and tolerability (2.2).
• Begin at a dose of 1 mg once daily and adjust in increments of no more than 1 mg/week (2.2).
• Do not crush, chew or break tablets before swallowing (2.1).
• Do not administer with high-fat meals, because of increased exposure (2.1).
• Do not substitute for immediate-release guanfacine tablets on a mg-per-mg basis, because of differing pharmacokinetic profiles (2.3).
• If switching from immediate-release guanfacine, discontinue that treatment and titrate with INTUNIV® as directed (2.3).
• When discontinuing, taper the dose in decrements of no more than 1 mg every 3 to 7 days to avoid rebound hypertension (2.5).

DOSAGE FORMS AND STRENGTHS
Extended-release tablets: 1 mg, 2 mg, 3 mg and 4 mg (3)

CONTRAINDICATIONS
History of hypersensitivity to INTUNIV®, its inactive ingredients, or other products containing guanfacine (4).

WARNINGS AND PRECAUTIONS
• Hypotension/bradycardia/syncope: Titrate slowly and monitor vital signs frequently in patients at risk for hypotension, heart block, bradycardia, syncope, cardiovascular disease, vascular disease, cerebrovascular disease or chronic renal failure. Measure heart rate and blood pressure prior to initiation of therapy, following dose increases, and periodically while on therapy. Avoid concomitant use of drugs with additive effects unless clinically indicated. Advise patients to avoid becoming dehydrated or overheated (5.1).
• Sedation and somnolence: Occur commonly with INTUNIV®. Consider the potential for additive sedative effects with CNS depressant drugs. Caution patients against operating heavy equipment or driving until they know how they respond to INTUNIV® (5.2).
• Cardiac Conduction Abnormalities: May worsen sinus node dysfunction and atrioventricular (AV) block, especially in patients taking other sympatholytic drugs. Titrate slowly and monitor vital signs frequently (5.3).
• Rebound Hypertension: Abrupt discontinuation of INTUNIV® can lead to clinically significant and persistent rebound hypertension. Subsequent hypertensive encephalopathy was also reported. To minimize the risk of rebound hypertension upon discontinuation, the total daily dose of INTUNIV® should be tapered in decrements of no more than 1 mg every 3 to 7 days (5.4).

ADVERSE REACTIONS
Most common adverse reactions (≥5% and at least twice placebo rate) in fixed-dose monotherapy ADHD trials in children and adolescents (6 to 17 years): hypotension, somnolence, fatigue, nausea, and lethargy (6.1)
Flexible dose-optimization ADHD trials in children (6 to 12 years) and adolescents (13 to 17 years): somnolence, hypotension, abdominal pain, insomnia, fatigue, dizziness, dry mouth, irritability, nausea, vomiting, and bradycardia (6.1).

To report SUSPECTED ADVERSE REACTIONS, contact Shire US Inc. at 1-800-828-2088 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS
• Strong and moderate CYP3A4 inhibitors increase guanfacine exposure. Decrease INTUNIV® to 50% of target dosage when coadministered with strong and moderate CYP3A4 inhibitors (2.7).
• Strong and moderate CYP3A4 inducers decrease guanfacine exposure. Based on patient response, consider titrating INTUNIV dosage up to double the target dosage over 1 to 2 weeks (2.7).

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

Revised: 03/2018

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*Sections or subsections omitted from the full prescribing information are not listed.
Table 1: Recommended Target Dose Range for Therapy with INTUNIV®

<table>
<thead>
<tr>
<th>Weight</th>
<th>Target dose range (0.05 - 0.12 mg/kg/day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25-33.9 kg</td>
<td>2-3 mg/day</td>
</tr>
<tr>
<td>34-41.4 kg</td>
<td>2-4 mg/day</td>
</tr>
<tr>
<td>41.5-49.4 kg</td>
<td>3-5 mg/day</td>
</tr>
<tr>
<td>49.5-58.4 kg</td>
<td>3-6 mg/day</td>
</tr>
<tr>
<td>58.5-91 kg</td>
<td>4-7 mg/day</td>
</tr>
<tr>
<td>&gt;91 kg</td>
<td>5-7 mg/day</td>
</tr>
</tbody>
</table>

Dosages above 4 mg/day have not been evaluated in children (ages 6-12 years) and doses above 7 mg/day have not been evaluated in adolescents (ages 13-17 years).

In the adjunctive trial which evaluated INTUNIV® treatment with psychostimulants, the majority of patients reached optimal doses in the 0.05-0.12 mg/kg/day range. Dosages above 4 mg/day have not been studied in adjunctive trials.

2.3 Switching from Immediate-Release Guanfacine to INTUNIV®

If switching from immediate-release guanfacine, discontinue that treatment, and titrate with INTUNIV® following the above recommended schedule. Do not substitute for immediate-release guanfacine tablets on a milligram-per-milligram basis, because of differing pharmacokinetic profiles. INTUNIV® has significantly reduced Cmax (60% lower), bioavailability (43% lower), and a delayed Tmax (3 hours later) compared to those of the same dose of immediate-release guanfacine [see Clinical Pharmacology (12.3)].

2.4 Maintenance Treatment

Pharmacological treatment of ADHD may be needed for extended periods. Healthcare providers should periodically re-evaluate the long-term use of INTUNIV®, and adjust weight-based dosage as needed. The majority of children and adolescents reach optimal doses in the 0.05-0.12 mg/kg/day range. Dosages above 4 mg/day have not been evaluated in children (ages 6-12 years) and above 7 mg/day have not been evaluated in adolescents (ages 13-17 years) [see Clinical Studies (14)].

2.5 Discontinuation of Treatment

Following discontinuation of INTUNIV®, patients may experience increases in blood pressure and heart rate [see Warnings and Precautions (5.4) and Adverse Reactions (6)]. Patients/caregivers should be instructed not to discontinue INTUNIV® without consulting their health care provider. Monitor blood pressure and pulse when reducing the dose or discontinuing the drug. Taper the daily dose in decrements of no more than 1 mg every 3 to 7 days to minimize the risk of rebound hypertension.

2.6 Missed Doses

When reintitling patients to the previous maintenance dose after two or more missed consecutive doses, consider titration based on patient response.

2.7 Dosage Adjustment with Concomitant Use of Strong and Moderate CYP3A4 Inhibitors or Inducers

Dosage adjustments for INTUNIV® are recommended with concomitant use of strong and moderate CYP3A4 inhibitors (e.g., ketoconazole), or CYP3A4 inducers (e.g., carbamazepine) [Table 2] [see Drug Interactions (7)].

Table 2: INTUNIV® Dosage Adjustments for Patients Taking Concomitant CYP3A4 Inhibitors or Inducers

<table>
<thead>
<tr>
<th>Clinical Scenarios</th>
<th>Starting INTUNIV® while currently on a CYP3A4 modulator</th>
<th>Continuing INTUNIV® while adding a CYP3A4 modulator</th>
<th>Continuing INTUNIV® while stopping a CYP3A4 modulator</th>
</tr>
</thead>
<tbody>
<tr>
<td>CYP3A4 Strong and moderate inhibitors</td>
<td>Decrease INTUNIV® dosage to half the recommended level. (see Table 1)</td>
<td>Decrease INTUNIV® dosage to half the recommended level. (see Table 1)</td>
<td>Increase INTUNIV® dosage to recommended level.</td>
</tr>
<tr>
<td>CYP3A4 Strong and moderate Inducers</td>
<td>Consider increasing INTUNIV® dosage up to double the recommended level. (see Table 1)</td>
<td>Consider increasing INTUNIV® dosage up to double the recommended level over 1 to 2 weeks. (see Table 1)</td>
<td>Decrease INTUNIV® dosage to recommended level over 1 to 2 weeks. (see Table 1)</td>
</tr>
</tbody>
</table>

3 DOSAGE FORMS AND STRENGTHS

1 mg, 2 mg, 3 mg and 4 mg extended-release tablets

4 CONTRAINDICATIONS

INTUNIV is contraindicated in patients with a history of a hypersensitivity reaction to INTUNIV or its inactive ingredients, or other products containing guanfacine. Rash and pruritus have been reported.

5.1 Hypotension, Bradycardia, and Syncope

Treatment with INTUNIV® can cause dose-dependent decreases in blood pressure and heart rate. Decreases were less pronounced over time of treatment. Orthostatic hypotension and syncope have been reported [see Adverse Reactions (6.1)]. Measure heart rate and blood pressure prior to initiation of therapy, following dose increases, and periodically while on therapy. Titrate INTUNIV slowly in patients with a history of hypotension, and those with underlying conditions that may be worsened by hypotension and bradycardia; e.g., heart block, bradycardia, cardiovascular disease, vascular disease, cerebrovascular disease, or chronic renal failure. In patients who have a history of syncope or may have a condition that predisposes them to syncope, such as hypotension, orthostatic hypotension, bradycardia, or dehydration, advise patients to avoid becoming dehydrated or overheated. Monitor blood pressure and heart rate, and adjust dosages accordingly in patients treated concomitantly with antihypertensives or other drugs that can reduce blood pressure or heart rate or increase the risk of syncope.

5.2 Sedation and Somnolence

Sedation and somnolence were commonly reported adverse reactions in clinical studies [see Adverse Reactions (6.1)]. Before using INTUNIV® with other centrally active depressants, consider the potential for additive sedative effects. Caution patients against operating heavy equipment or driving until they know how they respond to treatment with INTUNIV®. Advise patients to avoid use with alcohol.

5.3 Cardiac Conduction Abnormalities

The sympathetic action of INTUNIV® may worsen sinus node dysfunction and atrioventricular (AV) block, especially in patients taking other sympathetic drugs. Titrate INTUNIV slowly and monitor vital signs frequently in patients with cardiac conduction abnormalities or patients concomitantly treated with other sympathetic drugs.

5.4 Rebound Hypertension

In postmarketing experience, abrupt discontinuation of INTUNIV® has resulted in clinically significant and persistent rebound hypertension above baseline levels and increases in heart rate. Hypertensive encephalopathy has also been reported in association with rebound hypertension with both INTUNIV® and immediate release guanfacine [see Adverse Reactions (6.2)]. In these cases, high-dosage guanfacine was discontinued; concomitant stimulant use was also reported, which may potentially increase hypertensive response upon abrupt discontinuation of guanfacine. Children commonly have gastrointestinal illnesses that lead to vomiting, and a resulting inability to take medications, so they may be especially at risk for rebound hypertension.

To minimize the risk of rebound hypertension upon discontinuation, the total daily dose of INTUNIV® should be tapered in decrements of no more than 1 mg every 3 to 7 days [see Dosage and Administration (2.5)]. Blood pressure and heart rate should be monitored closely as patients are being dosed or discontinuing INTUNIV®. If abrupt discontinuation occurs (especially with concomitant stimulant use), patients should be closely followed for rebound hypertension.

6 ADVERSE REACTIONS

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

- Hypotension, bradycardia, and syncope [see Warnings and Precautions (5.1)]
- Sedation and somnolence [see Warnings and Precautions (5.2)]
- Cardiac conduction abnormalities [see Warnings and Precautions (5.3)]
- Rebound Hypertension [see Warnings and Precautions (5.4)]

6.1 Clinical Trials 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.
The data described below reflect clinical trial exposure to INTUNIV® in 2,825 patients. This includes 2,330 patients from completed studies in children and adolescents, ages 6 to 17 years and 495 patients in completed studies in adult healthy volunteers.

The mean duration of exposure of 446 patients that previously participated in two 2-year, open-label long-term studies was approximately 10 months.

### Fixed Dose Trials

Table 3: Percentage of Patients Experiencing Most Common (≥5% and at least twice the rate for placebo) Adverse Reactions in Fixed Dose Studies 1 and 2

<table>
<thead>
<tr>
<th>Adverse Reaction Term</th>
<th>Placebo (N=149)</th>
<th>1mg* (N=61)</th>
<th>2mg (N=150)</th>
<th>3mg (N=151)</th>
<th>4mg (N=151)</th>
<th>All Doses of INTUNIV® (N=513)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatigue</td>
<td>0 (0%)</td>
<td>3 (6%)</td>
<td>3 (4%)</td>
<td>7 (7%)</td>
<td>15 (5%)</td>
<td>28 (7%)</td>
</tr>
<tr>
<td>Somnolence*</td>
<td>11%</td>
<td>28%</td>
<td>30%</td>
<td>38%</td>
<td>51%</td>
<td>38%</td>
</tr>
<tr>
<td>Hypertension</td>
<td>3%</td>
<td>8%</td>
<td>5%</td>
<td>7%</td>
<td>8%</td>
<td>7%</td>
</tr>
<tr>
<td>Dizziness</td>
<td>4%</td>
<td>5%</td>
<td>3%</td>
<td>7%</td>
<td>10%</td>
<td>6%</td>
</tr>
<tr>
<td>Lethargy</td>
<td>3%</td>
<td>2%</td>
<td>3%</td>
<td>8%</td>
<td>7%</td>
<td>6%</td>
</tr>
<tr>
<td>Nausea</td>
<td>2%</td>
<td>7%</td>
<td>5%</td>
<td>5%</td>
<td>6%</td>
<td>6%</td>
</tr>
<tr>
<td>Dry mouth</td>
<td>1%</td>
<td>0%</td>
<td>1%</td>
<td>6%</td>
<td>7%</td>
<td>4%</td>
</tr>
</tbody>
</table>

*The lowest dose of 1 mg used in Study 2 was not randomized to patients weighing more than 50 kg.

a: The somnolence term includes somnolence, sedation, and hypersomnolence.

b: The hypertension term includes hypertension, diastolic hypertension, orthostatic hypertension, blood pressure decreased, blood pressure diastolic decreased, blood pressure systolic decreased.

### Monotherapy Flexible Dose Trials

Table 6: Percentage of Patients Experiencing Most Common (≥5% and at least twice the rate for placebo) Adverse Reactions in the Monotherapy Flexible Dose Study 4

<table>
<thead>
<tr>
<th>Adverse Reaction Term</th>
<th>Placebo (N=112)</th>
<th>AM (N=107)</th>
<th>PM (N=114)</th>
<th>All Doses of INTUNIV® (N=221)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatigue</td>
<td>13%</td>
<td>7%</td>
<td>10%</td>
<td>11%</td>
</tr>
<tr>
<td>Abdominal Pain</td>
<td>7%</td>
<td>6%</td>
<td>10%</td>
<td>11%</td>
</tr>
<tr>
<td>Iritability</td>
<td>3%</td>
<td>7%</td>
<td>7%</td>
<td>7%</td>
</tr>
<tr>
<td>Nausea</td>
<td>1%</td>
<td>6%</td>
<td>5%</td>
<td>5%</td>
</tr>
<tr>
<td>Dizziness</td>
<td>3%</td>
<td>6%</td>
<td>4%</td>
<td>5%</td>
</tr>
<tr>
<td>Vomiting</td>
<td>2%</td>
<td>7%</td>
<td>4%</td>
<td>5%</td>
</tr>
<tr>
<td>Hypertension</td>
<td>0%</td>
<td>6%</td>
<td>4%</td>
<td>5%</td>
</tr>
<tr>
<td>Decreased Appetite</td>
<td>3%</td>
<td>6%</td>
<td>3%</td>
<td>4%</td>
</tr>
<tr>
<td>Enuresis</td>
<td>1%</td>
<td>2%</td>
<td>5%</td>
<td>4%</td>
</tr>
</tbody>
</table>

a: The somnolence term includes somnolence, sedation, and hypersomnolence.
b: The abdominal pain term includes abdominal pain, abdominal pain lower, and abdominal tenderness.
c: The hypertension term includes hypertension, diastolic hypertension, orthostatic hypertension, blood pressure decreased, blood pressure diastolic decreased, blood pressure systolic decreased.
d: The enuresis term includes enuresis, nocturia, and urinary incontinence.

d: The affect liability term includes affect liability and mood swings.

Table 7: Adverse Reactions Leading to Discontinuation (≥2% for all doses of INTUNIV and > rate in placebo) in the Monotherapy Flexible Dose Study 4

<table>
<thead>
<tr>
<th>Adverse Reaction Term</th>
<th>Placebo (N=112)</th>
<th>AM (N=107)</th>
<th>PM (N=114)</th>
<th>All Doses of INTUNIV® (N=221)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total patients</td>
<td>0 (0%)</td>
<td>8 (7%)</td>
<td>7 (6%)</td>
<td>15 (7%)</td>
</tr>
<tr>
<td>Fatigue</td>
<td>0 (0%)</td>
<td>4 (4%)</td>
<td>3 (3%)</td>
<td>7 (3%)</td>
</tr>
</tbody>
</table>

Adverse reactions leading to discontinuation in ≥2% in any dose group but did not meet this criteria in all doses combined: fatigue

a: The somnolence term includes somnolence, sedation, and hypersomnolence.

Table 8: Other Common Adverse Reactions (≥2% for all doses of INTUNIV and > rate in placebo) in the Monotherapy Flexible Dose Study 4

<table>
<thead>
<tr>
<th>Adverse Reaction Term</th>
<th>Placebo (N=112)</th>
<th>AM (N=107)</th>
<th>PM (N=114)</th>
<th>All Doses of INTUNIV® (N=221)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headache</td>
<td>11%</td>
<td>18%</td>
<td>16%</td>
<td>17%</td>
</tr>
<tr>
<td>Insomnia</td>
<td>6%</td>
<td>8%</td>
<td>6%</td>
<td>7%</td>
</tr>
<tr>
<td>Harthness</td>
<td>4%</td>
<td>4%</td>
<td>5%</td>
<td>5%</td>
</tr>
<tr>
<td>Lethargy</td>
<td>0%</td>
<td>4%</td>
<td>3%</td>
<td>3%</td>
</tr>
<tr>
<td>Constipation</td>
<td>2%</td>
<td>4%</td>
<td>3%</td>
<td>3%</td>
</tr>
<tr>
<td>Dry Mouth</td>
<td>1%</td>
<td>3%</td>
<td>3%</td>
<td>3%</td>
</tr>
</tbody>
</table>

Adverse reactions ≥2% for all doses of INTUNIV and > rate in placebo in any dose group but did not meet this criteria in all doses combined: affect liability (affect liability, mood swings), increased weight, syncope/loss of consciousness (loss of consciousness, presyncope, syncope), dyspepsia, tachycardia (tachycardia, sinus tachycardia), and bradycardia (bradycardia, sinus bradycardia).

a: The insomnia term includes insomnia, initial insomnia, middle insomnia, terminal insomnia, and sleep disorder.

Table 9: Percentage of Patients Experiencing Most Common (≥5% and at least twice the rate for placebo) Adverse Reactions in the Monotherapy Flexible Dose Study 5

<table>
<thead>
<tr>
<th>Adverse Reaction Term</th>
<th>Placebo (N=155)</th>
<th>All Doses of INTUNIV® (N=157)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Somnolence*</td>
<td>23%</td>
<td>54%</td>
</tr>
<tr>
<td>Insomnia</td>
<td>6%</td>
<td>13%</td>
</tr>
<tr>
<td>Hypertension</td>
<td>3%</td>
<td>9%</td>
</tr>
<tr>
<td>Dry Mouth</td>
<td>0%</td>
<td>8%</td>
</tr>
<tr>
<td>Postural Dizziness</td>
<td>2%</td>
<td>5%</td>
</tr>
<tr>
<td>Bradycardia</td>
<td>0%</td>
<td>5%</td>
</tr>
</tbody>
</table>

*The lowest dose of 1 mg used in Study 2 was not randomized to patients weighing more than 50 kg.

a: The somnolence term includes somnolence, sedation, and hypersomnolence.

b: The abdominal pain term includes abdominal pain, abdominal pain lower, and abdominal tenderness.

c: The hypertension term includes hypertension, diastolic hypertension, orthostatic hypertension, blood pressure decreased, blood pressure diastolic decreased, blood pressure systolic decreased.

d: The bradycardia term includes bradycardia and sinus bradycardia.

There were no specific adverse reactions ≥2% in any treatment group that led to discontinuation in the monotherapy flexible dose study (Study 5).
Table 10: Other Common Adverse Reactions (≥2% for all doses of INTUNIV and >rate than in placebo) in the Monotherapy Flexible Dose Study 5

<table>
<thead>
<tr>
<th>Adverse Reaction Term</th>
<th>Placebo (N=153)</th>
<th>All Doses of INTUNIV® (N=157)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headache</td>
<td>18%</td>
<td>27%</td>
</tr>
<tr>
<td>Fatigue</td>
<td>12%</td>
<td>22%</td>
</tr>
<tr>
<td>Dizziness</td>
<td>10%</td>
<td>16%</td>
</tr>
<tr>
<td>Decreased Appetite</td>
<td>14%</td>
<td>15%</td>
</tr>
<tr>
<td>Abdominal Paina</td>
<td>8%</td>
<td>12%</td>
</tr>
<tr>
<td>Irritability</td>
<td>4%</td>
<td>7%</td>
</tr>
<tr>
<td>Anxietyb</td>
<td>3%</td>
<td>5%</td>
</tr>
<tr>
<td>Rashc</td>
<td>1%</td>
<td>3%</td>
</tr>
<tr>
<td>Constipation</td>
<td>0%</td>
<td>3%</td>
</tr>
<tr>
<td>Increased Weight</td>
<td>2%</td>
<td>3%</td>
</tr>
<tr>
<td>Abdominal/Stomach Discomfortd</td>
<td>1%</td>
<td>2%</td>
</tr>
<tr>
<td>Prurituse</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Adverse reactions ≥2% for all doses of INTUNIV and >rate in placebo in any dose group but did not meet this criteria in all doses combined: nausea, diarrhea, vomiting, and depression (depressed mood, depressive disorder).

Table 11: Percentage of Patients Experiencing Most Common (≥5% and at least twice the rate for placebo) Adverse Reactions in the Short-Term Adjunctive Study 3

<table>
<thead>
<tr>
<th>Adverse Reaction Term</th>
<th>Placebo+ stimulant (N=153)</th>
<th>INTUNIV® + stimulant (N=157)</th>
<th>AM (N=150)</th>
<th>PM (N=152)</th>
<th>All Doses (N=302)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Somnolencea</td>
<td>7%</td>
<td>18%</td>
<td>18%</td>
<td>18%</td>
<td>18%</td>
</tr>
<tr>
<td>Insomniab</td>
<td>6%</td>
<td>10%</td>
<td>14%</td>
<td>12%</td>
<td>12%</td>
</tr>
<tr>
<td>Abdominal Pains</td>
<td>3%</td>
<td>8%</td>
<td>12%</td>
<td>10%</td>
<td>10%</td>
</tr>
<tr>
<td>Fatigec</td>
<td>4%</td>
<td>10%</td>
<td>5%</td>
<td>8%</td>
<td>8%</td>
</tr>
<tr>
<td>Dizziness</td>
<td>4%</td>
<td>7%</td>
<td>6%</td>
<td>7%</td>
<td>7%</td>
</tr>
<tr>
<td>Decreased Appetite</td>
<td>4%</td>
<td>1%</td>
<td>6%</td>
<td>7%</td>
<td>7%</td>
</tr>
<tr>
<td>Prurituse</td>
<td>2%</td>
<td>3%</td>
<td>7%</td>
<td>5%</td>
<td>5%</td>
</tr>
</tbody>
</table>

a: The somnolence term includes somnolence, sedation, and hypersomnia.
b: The insomnia term includes insomnia, initial insomnia, middle insomnia, terminal insomnia, and sleep disorder.
c: The abdominal pain term includes abdominal pain, abdominal pain lower, abdominal pain upper, and abdominal tenderness.

d: The abdominal/stomach discomfort term includes abdominal discomfort, epigastric discomfort, and stomach discomfort.

d: The rash term includes rash, rash generalized, and rash papular.

d: The tachycardia term includes tachycardia and sinus tachycardia.

d: The bradycardia term includes bradycardia and sinus bradycardia.

d: The nightmear term includes abnormal dreams, nightmear, and sleep terror.

d: The anxiety term includes anxiety and nervousness.

d: The abdominall/stomach discom fort term includes abdom inal discom fort, epigastric discom fort, and stomach discom fort.

Adverse reactions ≥2% for all doses of INTUNIV and >rate in placebo in any dose group but did not meet this criteria in all doses combined: nausea, diarrhea, vomiting, and depression (depressed mood, depressive disorder).

Effects on Blood Pressure and Heart Rate
In the monotherapy pediatric, short-term, controlled trials (Studies 1 and 2), the maximum mean changes from baseline in seated systolic blood pressure, diastolic blood pressure, and pulse were -5.4 mmHg, -3.4 mmHg, and -5.5 bpm, respectively, for all doses combined (generally one week after reaching target doses). For the respective fixed doses 1 mg/day, 2 mg/day, 3 mg/day or 4 mg/day the maximum mean changes in seated systolic blood pressure were -4.3 mmHg, -3.5 mmHg, -3.4 mmHg, and -8.2 mmHg. For these respective fixed doses the maximum mean changes in seated diastolic blood pressure were -3.4 mmHg, -3.3 mmHg, -4.4 mmHg and -5.4 mmHg. For these respective fixed doses the maximum mean changes in seated pulse were -4.8 bpm, -3.1 bpm, -6.5 bpm and -8.6 bpm. Decreases in blood pressure and heart rate were usually modest and asymptomatic; however, hypotension and bradycardia can occur. Hypotension was reported as an adverse reaction for 7% of the INTUNIV® group and 3% of the placebo group. This includes orthostatic hypotension, which was reported for 1% of the INTUNIV® group and none in the placebo group. These findings were generally similar in the monotherapy flexible dose trials (Studies 4 and 5). In the adjunctive trial, hypotension (3%) and bradycardia (2%) were observed in patients treated with INTUNIV® as compared to those treated with placebo. In long-term, open-label studies, (mean exposure of approximately 10 months), maximum decreases in systolic and diastolic blood pressure occurred in the first month of therapy. Decreases were less pronounced over time. Syncope occurred in 1% of pediatric patients in the clinical program. The majority of these cases occurred in the long-term, open-label studies.

Discontinuation of Treatment
Blood pressure and pulse may increase above baseline values following discontinuation of INTUNIV®. In five studies of children and adolescents [see Clinical Studies (14)], increases in mean systolic and diastolic blood pressure averaging approximately 3 mmHg and increases in heart rate averaging 5 beats per minute above original baseline were observed upon discontinuation with tapering of INTUNIV®. In a maintenance of efficacy study, increases in blood pressure and heart rate were noted at baseline and above baseline slowly diminished over the follow-up period, which ranged between 3 and 26 weeks post final dose; the estimated average time to return to baseline was between six and twelve months. In this study, the increases in blood pressure and pulse were not considered serious or associated with adverse events. However, individuals may have larger increases than reflected by the mean changes.

In postmarketing experience, following abrupt discontinuation of INTUNIV®, rebound hypertension and hypertensive encephalopathy have been reported [see Warnings and Precautions (5.4) and Adverse Reactions (6.2)].

Effects on Height, Weight, and Body Mass Index (BMI)
Patients taking INTUNIV® demonstrated similar growth compared to normative data. Patients taking INTUNIV® had a mean increase in weight of 0.5 kg compared to those receiving placebo over a comparable treatment period. Patients receiving INTUNIV® for at least 12 months in open-label studies gained an average of 8 kg in weight and 8 cm (3 in) in height. The height, weight, and BMI percentile remained stable in patients at 12 months in the long-term studies compared to when they began receiving INTUNIV®.

Table 13 includes additional adverse reactions observed in short-term, placebo-controlled and long-term, open-label clinical studies not included elsewhere in section 6.1, listed by organ system.

Table 13: Other adverse reactions observed in clinical studies

<table>
<thead>
<tr>
<th>Body System</th>
<th>Adverse Reaction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardiac</td>
<td>Arrioventricular block</td>
</tr>
<tr>
<td>General</td>
<td>Asthma, chest pain</td>
</tr>
<tr>
<td>Immune System Disorders</td>
<td>Hypersensitivity</td>
</tr>
<tr>
<td>Nervous system</td>
<td>Convulsion</td>
</tr>
<tr>
<td>Renal</td>
<td>Increased urinary frequency</td>
</tr>
<tr>
<td>Vascular</td>
<td>Hypertension, pain</td>
</tr>
</tbody>
</table>

6.2 Postmarketing Experience
The following adverse reactions have been identified during post-approval use of guanfacine. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure. Less frequent, possibly guanfacine-related events observed in the post-marketing study and/or reported spontaneously, not included in section 6.1, include:

General: edema, malaise, tremor
Cardiovascular: palpitations, tachycardia, rebound hypertension, hypertensive encephalopathy
Central Nervous System: paresthesias, vertigo
Eye Disorders: blurred vision
Musculo-Skeletal System: arthralgia, leg cramps, leg pain, myalgia
Psychiatric: confusion, hallucinations
Reproductive System, Male: erectile dysfunction
Respiratory System: dyspnea
Skin and Appendages: alopecia, dermatitis, exfoliative dermatitis, pruritus, rash
Special Senses: alterations in taste
7 DRUG INTERACTIONS

Table 14 contains clinically important drug interactions with INTUNIV® [see Clinical Pharmacology (12.3)].

<table>
<thead>
<tr>
<th>Concomitant Drug Name</th>
<th>Clinical Rationale and Magnitude of Drug Interaction</th>
<th>Clinical Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strong and moderate CYP34A inhibitors, e.g., ketoconazole, fluconazole</td>
<td>Guanfacine is primarily metabolized by CYP334 and its plasma concentrations can be significantly affected resulting in an increase in exposure</td>
<td>Consider dose reduction [see Dosage and Administration (2.7)]</td>
</tr>
<tr>
<td>Strong and moderate CYP34C inducers, e.g., rifampin, efavirenz</td>
<td>Guanfacine is primarily metabolized by CYP334 and its plasma concentrations can be significantly affected resulting in a decrease in exposure</td>
<td>Consider dose increase [see Dosage and Administration (2.7)]</td>
</tr>
</tbody>
</table>

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Category B

Risk Summary
There are no adequate and well-controlled studies of INTUNIV in pregnant women. No fetal harm was observed in rats and rabbits with administration of guanfacine at 4 and 2.7 times, respectively, the maximum recommended human dose. Because animal studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

Animal data

Reproduction studies conducted in rats have shown that guanfacine crosses the placenta. However, administration of guanfacine to rats and rabbits at 4 and 2.7 times, respectively, the maximum recommended human dose of 0.12 mg/kg/day on a mg/m² basis resulted in no evidence of harm to the fetus. Higher doses (13.5 times the maximum recommended human dose in both rats and rabbits) were associated with reduced fetal survival and maternal toxicity.

8.3 Nursing Mothers

It is not known whether guanfacine is excreted in human milk; however, guanfacine is excreted in rat milk. Because many drugs are excreted in human milk, caution should be exercised when INTUNIV® is administered to a nursing woman. Observe human milk-fed infants for sedation and somnolence.

8.4 Pediatric Use

Safety and efficacy of INTUNIV® in pediatric patients less than 6 years of age have not been established. The efficacy of INTUNIV® was studied for the treatment of ADHD in five controlled monootherapy clinical trials (up to 15 weeks in duration), one randomized withdrawal study and one controlled adjunctive trial with psychostimulants (8 weeks in duration) in children and adolescents ages 6-17 who met DSM-IV® criteria for ADHD [see Adverse Reactions (6) and Clinical Studies (14)].

Animal Data

In studies in juvenile rats, guanfacine alone produced a slight delay in sexual maturation in males and females at 2 to 3 times the maximum recommended human dose (MRHD). Guanfacine in combination with methylphenidate produced a slight delay in sexual maturation and decreased growth as measured by a decrease in bone length in males at a dose of guanfacine comparable to the MRHD and a dose of methylphenidate approximately 4 times the MRHD.

In a study where juvenile rats were treated with guanfacine alone from 7 to 59 days of age, development was delayed as indicated by a slight delay in sexual maturation and decreased body weight gain in males at 2 mg/kg/day and in females at 3 mg/kg/day. The No Adverse Effect Level (NOAEL) for delayed sexual maturation was 1 mg/kg/day, which is equivalent to the MRHD of 4 mg/day, on a mg/m² basis. The effects on fertility were not evaluated in this study.

In a study where juvenile rats were treated with guanfacine in combination with methylphenidate from 7 to 59 days of age, a decrease in ulna bone length and a slight delay in sexual maturation were observed in males given 1 mg/kg/day of guanfacine in combination with 50 mg/kg/day of methylphenidate. The NOAELs for these findings were 0.3 mg/kg of guanfacine in combination with 16 mg/kg/day of methylphenidate, which are equivalent to 0.3 and 1.4 times the MRHD of 4 mg/day and 54 mg/day for guanfacine and methylphenidate, respectively, on a mg/m² basis. These findings were not observed with guanfacine alone at 1 mg/kg/day or methylphenidate alone at 50 mg/kg/day.

8.5 Geriatric Use

The safety and efficacy of INTUNIV® in geriatric patients have not been established.

8.6 Renal Impairment

It may be necessary to reduce the dosage in patients with significant impairment of renal function [see Clinical Pharmacology (12.3)].

8.7 Hepatic Impairment

It may be necessary to reduce the dosage in patients with significant impairment of hepatic function [see Clinical Pharmacology (12.3)].

9 DRUG ABUSE AND DEPENDENCE

9.1 Controlled Substance

INTUNIV® is not a controlled substance and has no known potential for abuse or dependence.

10 OVERDOSAGE

Symptoms

Postmarketing reports of guanfacine overdosage indicate that hypotension, drowsiness, lethargy, and bradycardia have been observed following overdose. Initial hypotension may develop early and may be followed by hypotension. Similar symptoms have been described in voluntary reports to the American Association of Poison Control Center's National Poison Data System. Miosis of the pupils may be noted on examination. No fatal overdoses of guanfacine have been reported in published literature.

Treatment

Consult a Certified Poison Control Center by calling 1-800-222-1222 for up-to-date guidance and advice.

Management of INTUNIV® overdose should include monitoring for and the treatment of initial hypotension, if that occurs, as well as hypotension, bradycardia, lethargy and respiratory depression. Children and adolescents who develop lethargy should be observed for the development of more serious toxicity including coma, bradycardia and hypotension for up to 4 hours, due to the possibility of delayed onset hypotension.

11 DESCRIPTION

INTUNIV® is a once-daily, extended-release formulation of guanfacine hydrochloride (HCl) in a matrix tablet formulation for oral administration only. The chemical designation is N-amidino-2-(2,6-dichlorophenyl) acetamide monohydrochloride. The molecular formula is C10H8Cl2N, HCl corresponding to a molecular weight of 282.55. The chemical structure is:

\[
\text{Guantfacine HCl} = \text{guanfacine + HCl}
\]

Guanfacine HCl is a white to off-white crystalline powder, sparingly soluble in water (approximately 1 mg/mL) and alcohol and slightly soluble in acetone. The only organic solvent in which it has relatively high solubility is methanol (>30 mg/mL). Each tablet contains guanfacine HCl equivalent to 1 mg, 2 mg, 3 mg, or 4 mg of guanfacine base. The tablets also contain hypromellose, methacrylic acid copolymer, lactose, povidone, crospovidone, microcrystalline cellulose, fumaric acid, and glycerin behenate. In addition, the 3 mg and 4 mg tablets also contain green pigment blend PB-1763.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Guanfacine is a central alpha2A-adrenergic receptor agonist. Guanfacine is not a central nervous system (CNS) stimulant. The mechanism of action of guanfacine in ADHD is not known.

12.2 Pharmacodynamics

Guanfacine is a selective alpha2A-adrenergic receptor agonist in that it has a 15-20 times higher affinity for this receptor subtype than for the alpha2B or alpha2C subtypes.

Guanfacine is a known antihypertensive agent. By stimulating central alpha2-adrenergic receptors, guanfacine reduces sympathetic nerve impulses from the vasomotor center to the heart and blood vessels. This results in a decrease in peripheral vascular resistance and a reduction in heart rate.

In a thorough QT study, the administration of two dose levels of immediate-release guanfacine (4 mg and 8 mg) produced concentrations approximately 2 to 4 times the concentrations observed with the maximum recommended dose of INTUNIV® of 0.12 mg/kg. Guanfacine was not shown to prolong the DFC interval to any clinically relevant extent.

12.3 Pharmacokinetics

Absorption and Distribution

Guanfacine is readily absorbed and approximately 70% bound to plasma proteins independent of drug concentration. After oral administration of INTUNIV® the time to peak plasma concentration is approximately 5 hours in children and adolescents with ADHD.

Immediate-release guanfacine and INTUNIV® have different pharmacokinetic characteristics; dose substitution on a milligram per milligram basis will result in differences in exposure.

A comparison across studies suggests that the Cmax is 60% lower and AUC∞ is 43% lower, respectively, for INTUNIV® compared to immediate-release guanfacine. Therefore, the relative bioavailability of INTUNIV® to immediate-release guanfacine is 58%. The mean pharmacokinetic parameters in adults following the administration of INTUNIV® 1 mg once daily and immediate-release guanfacine 1mg once daily are summarized in Table 15.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>INTUNIV® 1 mg once daily</th>
<th>Immediate-release guanfacine 1 mg once daily</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cmax (ng/mL)</td>
<td>1.0 ± 0.3</td>
<td>2.5 ± 0.6</td>
</tr>
<tr>
<td>AUC∞ (ng·h/mL)</td>
<td>32 ± 9</td>
<td>56 ± 15</td>
</tr>
<tr>
<td>t1/2 (h)</td>
<td>6.0 (4.0–8.0)</td>
<td>3.0 (1.5–4.0)</td>
</tr>
<tr>
<td>tmax (h)</td>
<td>16 ± 4</td>
<td>16 ± 3</td>
</tr>
</tbody>
</table>

Note: Values are mean ± SD, except for tmax which is median (range)
Studies in Specific Populations

Renal Impairment

The impact of renal impairment on the pharmacokinetics of guanfacine in children was not assessed. In adult patients with impaired renal function, the cumulative urinary excretion of guanfacine and the renal clearance diminished as renal function decreased. In patients on hemodialysis, the dialysis clearance was about 15% of the total clearance. The low dialysis clearance suggests that the hepatic elimination (metabolism) increases as renal function decreases.

Hepatic Impairment

The impact of hepatic impairment on PK of guanfacine in children was not assessed. Guanfacine in adults is cleared both by the liver and the kidney, and approximately 50% of the clearance of guanfacine is hepatic (see Hepatic Impairment [8.7]).

Drug Interaction Studies

Guanfacine is primarily metabolized by CYP3A4 and its plasma concentrations can be affected significantly by CYP3A4 inhibitors or inducers (Figure 2).

Figure 2: Effect of Other Drugs on the Pharmacokinetics (PK) of INTUNIV®

Guanfacine does not significantly affect exposures of methylphenidate and lisdexamfetamine when coadministered (Figure 3).

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

No carcinogenic effect of guanfacine was observed in studies of 78 weeks in mice or 102 weeks in rats at doses up to 6.8 times the maximum recommended human dose of 0.12 mg/kg/day on a mg/m² basis.

Mutagenesis

Guanfacine was not genotoxic in a variety of test models, including the Ames test and an in vitro chromosomal aberration test; however, a marginal increase in numerical aberrations (polyplody) was observed in the latter study.

Impairment of Fertility

No adverse effects were observed in fertility studies in male and female rats at doses up to 22 times the maximum recommended human dose on a mg/m² basis.

14 CLINICAL STUDIES

Efficacy of INTUNIV® in the treatment of ADHD was established in children and adolescents (6 to 17 years) in:

• Five short-term, placebo-controlled monotherapy trials (Studies 1, 2, 4, 5, and 6).
• One short-term, placebo-controlled adjunctive trial with psychostimulants (Study 3).
• One long-term, placebo-controlled monotherapy maintenance trial (Study 7).

Studies 1 and 2: Fixed-dose INTUNIV® Monotherapy

Study 1 (201 study) was a double-blind, placebo-controlled, parallel-group, fixed-dose study, in which efficacy of once daily dosing with INTUNIV® (2 mg, 3 mg, and 4 mg) was evaluated for 5 weeks (n=345) in children and adolescents aged 6-17 years. Study 2 (304 study) was a double-blind, placebo-controlled, parallel-group, fixed-dose study, in which efficacy of once daily dosing with INTUNIV® (1 mg, 2 mg, 3 mg and 4 mg) was evaluated for 6 weeks (n=324) in children and adolescents aged 6-17 years. In both studies, randomized patients in 2 mg, 3 mg and 4 mg dose groups were titrated to their target fixed dose, and continued on the same dose until a dose tapering phase started. The lowest dose of 1 mg used in Study 2 was not randomized to patients weighing more than 50 kg. Patients who weighed less than 25 kg were not included in either study.

Signs and symptoms of ADHD were evaluated on a once weekly basis using the clinician administered and scored ADHD Rating Scale (ADHD-RS-IV), which includes both hyperactive/impulsive and inattentive subscales. The primary efficacy outcome was the change from baseline to endpoint in ADHD-RS-IV total scores. Endpoint was defined as the last post-randomization treatment week for which a valid score was obtained prior to dose tapering (up to Week 3 in Study 1 and up to Week 6 in Study 2).

The mean reductions in ADHD-RS-IV total scores at endpoint were statistically significantly greater for INTUNIV® compared to placebo for Studies 1 and 2. Placebo-adjusted changes from baseline were statistically significant for each of the 2 mg, 3 mg, and 4 mg INTUNIV® randomized treatment groups in both studies, as well as the 1 mg INTUNIV® treatment group that was included only in Study 2 (see Table 16).

Dose-responsive efficacy was evident, particularly when data were examined on a weight-adjusted (mg/kg) basis. When evaluated over the dose range of 0.01-0.17 mg/kg/day, clinically relevant improvements were observed beginning at doses in the range 0.05-0.08 mg/kg/day. Doses up to 0.12 mg/kg/day were shown to provide additional benefit.

In the monotherapy trials (Studies 1 and 2), subgroup analyses were performed to identify any differences in response based on gender or age (6-12 vs. 13-17). Analyses of the primary outcome did not suggest any differential responsiveness on the basis of gender. Analyses by age revealed a statistically significant treatment effect only in the 6-12 age subgroup. Due to the relatively small proportion of adolescent patients (ages 13-17) enrolled into these studies (approximately 25%), these data may not have been sufficient to demonstrate efficacy in the adolescent patients. In these studies, patients were randomized to a fixed dose of INTUNIV® rather than optimized by body weight. Therefore, some adolescent patients were randomized to a dose that might have resulted in relatively lower plasma guanfacine concentrations compared to the younger patients. Over half (55%) of the adolescent patients received doses of 0.01-0.04 mg/kg. In studies in which systematic pharmacokinetic data were obtained, there was a strong inverse correlation between body weight and plasma guanfacine concentrations.
**Table 16: Fixed dose Studies**

<table>
<thead>
<tr>
<th>Study Number</th>
<th>Treatment Group</th>
<th>Primary Efficacy Measure: ADHD-IV Total Score</th>
<th>Mean Baseline Score (SD)</th>
<th>LS Mean Change from Baseline (SE)</th>
<th>Placebo-subtracted Differencea</th>
<th>(95% CI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study 1</td>
<td>INTUNIV® 2 mg* (6—17 years) Placebo</td>
<td>36.1 (9.99)</td>
<td>-15.9 (1.37)</td>
<td>-7.4 (-11.3, -3.5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>INTUNIV® 3 mg* (6—17 years) Placebo</td>
<td>38.8 (8.72)</td>
<td>-16.0 (1.38)</td>
<td>-7.5 (-11.4, -3.6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>INTUNIV® 4 mg* (6—17 years) Placebo</td>
<td>38.4 (9.21)</td>
<td>-18.5 (1.39)</td>
<td>-10.0 (-13.9, -6.1)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Table 17: Flexible-dose studies**

<table>
<thead>
<tr>
<th>Study Number</th>
<th>Treatment Group</th>
<th>Primary Efficacy Measure: ADHD-IV Total Score</th>
<th>Mean Baseline Score (SD)</th>
<th>LS Mean Change from Baseline (SE)</th>
<th>Placebo-subtracted Differencea</th>
<th>(95% CI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study 3</td>
<td>INTUNIV® 1—4 mg AM* (6—17 years) Placebo</td>
<td>37.6 (8.13)</td>
<td>-20.3 (0.97)</td>
<td>-4.5 (-7.5, -1.4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>INTUNIV® 1—4 mg PM* (6—17 years) Placebo</td>
<td>37.0 (7.55)</td>
<td>-21.2 (0.97)</td>
<td>-5.3 (-8.3, -2.3)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Study 6 (316 study) was a 12-week (for children aged 6-12) or 15-week (for adolescents aged 13-17), randomized, double-blind, parallel-group, placebo- and active-reference, dose-optimization study conducted in pediatric patients (children and adolescents aged 6-17 years old inclusive) (n=337) to assess the efficacy and safety of once-daily dosing (children: 1-4 mg/day; adolescents: 1-7 mg/day; optimized dose range of 0.05 to 0.12 mg/kg/day) and safety of the treatment of ADHD as measured by the ADHD Rating Scale-IV (ADHD-IV).** Patients receiving INTUNIV® showed statistically significantly greater improvement on the ADHD-IV total score compared with placebo group receiving placebo (see Table 17). Study 6 (316 study) was a 12-week (for children aged 6-12) or 15-week (for adolescents aged 13-17), randomized, double-blind, parallel-group, placebo- and active-reference, dose-optimization study conducted in pediatric patients (children and adolescents aged 6-17 years old inclusive) (n=337) to assess the efficacy and safety of once-daily dosing (children: 1-4 mg/day; adolescents: 1-7 mg/day; optimized dose range of 0.05 to 0.12 mg/kg/day) and safety of the treatment of ADHD as measured by the ADHD Rating Scale-IV (ADHD-IV). Patients receiving INTUNIV® showed statistically significantly greater improvement on the ADHD-IV total score compared with placebo group receiving placebo (see Table 17).

**Study 7: Long-Term Maintenance of INTUNIV® Efficacy**

Study 7 (315 study) was a double-blind, placebo-controlled, randomized withdrawal trial in pediatric patients aged 6 to 17 years with ODD. The study consisted of an open-label phase, including a 7-week dose-optimization period to titrate patients to an optimal dose (maximum 4 mg/day for children and 7 mg/day for adolescents; optimized dose range: 0.05 to 0.12 mg/kg/day) and a 6-week maintenance period. There were 526 patients included in the open-label phase. Among those, 315 patients who met response criteria in the open-label phase were then randomized (1:1, INTUNIV/placebo) in a 26-week, double-blind, randomized withdrawal phase. The response criteria were defined by a ≥30% reduction in ADHD-IV total score and a Clinical Global Impression-Improvement (CGI-I) score of 1 or 2 during the open-label phase. A statistically significantly lower proportion of treatment failures occurred among INTUNIV patients compared to placebo at the end of the randomized withdrawal period (Figure 4). Treatment failure was defined as a ≥50% increase (worsening) in ADHD-IV total score and a ≥2-point increase in Clinical Global Impression-Severity (CGI-S) score. Patients who met the treatment failure criteria on two consecutive visits or discontinued for any reason were classified as treatment failure.

**Figure 4. Kaplan-Meier Estimation of Proportion of Patients with Treatment Failure for Children and Adolescents Ages 6-17 (Study 7)**

### HOW SUPPLIED/STORAGE AND HANDLING

INTUNIV® is supplied in 1 mg, 2 mg, 3 mg, and 4 mg strength extended-release tablets in 100 count bottles. **Table 16: Fixed dose Studies**

<table>
<thead>
<tr>
<th>Study Number</th>
<th>Treatment Group</th>
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<td>37.6 (8.13)</td>
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<td></td>
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<td>-5.3 (-8.3, -2.3)</td>
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**Study 6 (316 study) was a 12-week (for children aged 6-12) or 15-week (for adolescents aged 13-17), randomized, double-blind, parallel-group, placebo- and active-reference, dose-optimization study conducted in pediatric patients (children and adolescents aged 6-17 years old inclusive) (n=337) to assess the efficacy and safety of once-daily dosing (children: 1-4 mg/day; adolescents: 1-7 mg/day; optimized dose range of 0.05 to 0.12 mg/kg/day) and safety of the treatment of ADHD as measured by the ADHD Rating Scale-IV (ADHD-IV).** Patients receiving INTUNIV® showed statistically significantly greater improvement on the ADHD-IV total score compared with placebo group receiving placebo (see Table 17).

**Study 7: Long-Term Maintenance of INTUNIV® Efficacy**

Study 7 (315 study) was a double-blind, placebo-controlled, randomized withdrawal trial in pediatric patients aged 6 to 17 years with ODD. The study consisted of an open-label phase, including a 7-week dose-optimization period to titrate patients to an optimal dose (maximum 4 mg/day for children and 7 mg/day for adolescents; optimized dose range: 0.05 to 0.12 mg/kg/day) and a 6-week maintenance period. There were 526 patients included in the open-label phase. Among those, 315 patients who met response criteria in the open-label phase were then randomized (1:1, INTUNIV/placebo) in a 26-week, double-blind, randomized withdrawal phase. The response criteria were defined by a ≥30% reduction in ADHD-IV total score and a Clinical Global Impression-Improvement (CGI-I) score of 1 or 2 during the open-label phase. A statistically significantly lower proportion of treatment failures occurred among INTUNIV patients compared to placebo at the end of the randomized withdrawal period (Figure 4). Treatment failure was defined as a ≥50% increase (worsening) in ADHD-IV total score and a ≥2-point increase in Clinical Global Impression-Severity (CGI-S) score. Patients who met the treatment failure criteria on two consecutive visits or discontinued for any reason were classified as treatment failure.

**Figure 4. Kaplan-Meier Estimation of Proportion of Patients with Treatment Failure for Children and Adolescents Ages 6-17 (Study 7)**

### HOW SUPPLIED/STORAGE AND HANDLING

INTUNIV® is supplied in 1 mg, 2 mg, 3 mg, and 4 mg strength extended-release tablets in 100 count bottles.
INTUNIV® (guanfacine) Extended-Release Tablets

Advise patients not to abruptly discontinue INTUNIV® as abrupt discontinuation can result in clinically significant rebound hypertension. Concomitant stimulant use and abrupt discontinuation of Intuniv may increase this hypertensive response. Instruct patients on how to properly taper the dose to minimize the risk of rebound hypertension [see Dosage and Administration (2.5) and Warnings and Precautions (5.4)].

Adverse Reactions

Advise patients that sedation can occur, particularly early in treatment or with dose increases. Caution against operating heavy equipment or driving until they know how they respond to treatment with INTUNIV® [see Warnings and Precautions (5.2)].

Patient Information

INTUNIV® (in-TOO-niv)
(guanfacine)
Extended-Release Tablets

Read the Patient Information that comes with INTUNIV® before you start taking it and each time you get a refill. There may be new information. This leaflet does not take the place of talking with your doctor about your medical condition or your treatment.

What is INTUNIV®?

INTUNIV® is a prescription medicine used to treat the symptoms of attention deficit/hyperactivity disorder (ADHD). INTUNIV® may be used alone or with ADHD stimulant medications. INTUNIV® is not a central nervous system (CNS) stimulant. It is not known if INTUNIV® is safe and effective in children younger than 6 years of age.

Who should not take INTUNIV®?

Do not take INTUNIV® if you are allergic to guanfacine or any of the ingredients in INTUNIV®. See the end of this leaflet for a complete list of ingredients in INTUNIV®.

What should I tell my doctor before taking INTUNIV®?

Before you take INTUNIV®, tell your doctor if you:

• have heart problems or a low heart rate
• have fainted
• have low or high blood pressure
• have liver or kidney problems
• have any other medical conditions
• are pregnant or plan to become pregnant. It is not known if INTUNIV® will harm your unborn baby. Talk to your doctor if you are pregnant or plan to become pregnant.
• are breastfeeding or plan to breastfeed. It is not known if INTUNIV® ingredients in INTUNIV® pass into your breast milk. Talk to your doctor about the best way to feed your baby while taking INTUNIV®.

Tell your doctor about all of the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. INTUNIV® may affect the way other medicines work, and other medicines may affect how INTUNIV® works.

Especially tell your doctor if you take:

• ketoconazole
• medicines that can affect enzyme metabolism
• high blood pressure medicine
• sedatives
• benzodiazepines
• barbiturates
• antipsychotics

Heads and abdominal pain can also occur. If any of these symptoms persist, or other symptoms occur, the patient should be advised to discuss the symptoms with the health care provider.

Ask your doctor or pharmacist for a list of these medicines, if you are not sure. Know the medicines you take. Keep a list of them and show it to your doctor and pharmacist when you get a new medicine.

How should I take INTUNIV®?

• Take INTUNIV® exactly as your doctor tells you.
• Your doctor may change your dose. Do not change your dose of INTUNIV® without talking to your doctor.
• Do not stop taking INTUNIV® without talking to your doctor.
• Try not to miss your dose of INTUNIV®. If you miss a dose of INTUNIV®, take the next dose at your regular time. If you miss 2 or more doses, talk to your doctor, as you may need to restart INTUNIV® with a lower dose.
• Do not take a double dose to make up for a missed dose.
• INTUNIV® should be taken 1 time a day in the morning or in the evening, either alone or in combination with an ADHD stimulant medication that your doctor may prescribe. Your doctor will tell you when to take INTUNIV® and when to take your ADHD stimulant medication.
• INTUNIV® should be swallowed whole with a small amount of water, milk, or other liquid.
• Do not crush, chew, or break INTUNIV®. Tell your doctor if you cannot swallow INTUNIV® whole.
• Do not take INTUNIV® with a high-fat meal.
• Your doctor will check your blood pressure and heart rate while you take INTUNIV®.
• If you take too much INTUNIV®, call your local Poison Control Center at 1-800-222-1222 or go to the nearest emergency room right away.

What should I avoid while taking INTUNIV®?

• Do not drive, operate heavy machinery, or do other dangerous activities until you know how INTUNIV® affects you. INTUNIV® can slow your thinking and motor skills.
• Do not drink alcohol or take other medicines that make you sleepy or dizzy while taking INTUNIV® until you talk with your doctor. INTUNIV® taken with alcohol or medicines that cause sleepiness or dizziness may make your sleepiness or dizziness worse.
• Do not become dehydrated or overheated. This may increase your chance of having low blood pressure or fainting while taking INTUNIV®.
• Do not suddenly stop INTUNIV. Tell your healthcare provider if you have been vomiting and cannot take INTUNIV, you may be at risk for rebound hypertension.
What are the possible side effects of INTUNIV®?
INTUNIV® may cause serious side effects including:

• low blood pressure
• low heart rate
• fainting
• sleepiness
• increased blood pressure and heart rate after suddenly stopping INTUNIV (rebound hypertension). Sudden stopping INTUNIV can cause increased blood pressure and heart rate and other withdrawal symptoms such as headache, confusion, nervousness, agitation, and tremors. If these symptoms continue to get worse and are left untreated, it could lead to a very serious condition including very high blood pressure, feeling very sleepy or tired, severe headache, vomiting, vision problems, seizures.

Get medical help right away, if you have any of the symptoms listed above.

The most common side effects of INTUNIV® include:

• sleepiness
• dizziness
• tiredness
• dry mouth
• trouble sleeping
• irritability
• low blood pressure
• vomiting
• nausea
• slow heart rate
• stomach pain

Tell the 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 INTUNIV®. 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 INTUNIV®?

• Store INTUNIV® between 68°F to 77°F (20°C to 25°C)

Keep INTUNIV® and all medicines out of the reach of children.

General Information about the safe and effective use INTUNIV®

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

This leaflet summarizes the most important information about INTUNIV®. If you would like more information, talk with your doctor.

You can ask your pharmacist or doctor for information about INTUNIV® that is written for health professionals.

For more information, go to www.INTUNIV.com or call 1-800-828-2088.

What are the ingredients in INTUNIV®?

Active ingredient: guanfacine hydrochloride

Inactive ingredients: hypromellose, methacrylic acid copolymer, lactose, povidone, crospovidone, microcrystalline cellulose, fumaric acid, and glycerol behenate. In addition, the 3 mg and 4 mg tablets also contain green pigment blend PB-1763.

This Patient Information has been approved by the U.S. Food and Drug Administration.