



For your patients who are dissatisfied with their acute migraine medication,

**TOSYMRA™ delivers
the efficacy
of an injection
with the convenience
of a nasal spray.**

TOSYMRA is indicated for the acute treatment of migraine with or without aura in adults.

Mist-like administration for
"spray-on-the-go" migraine relief

TOSYMRA offers migraine relief in a portable nasal spray for treatment at home, at work, or while traveling



Limitations of Use:

- Use only if a clear diagnosis of migraine has been established. If a patient has no response to the first migraine attack treated with TOSYMRA, reconsider the diagnosis before TOSYMRA is administered to treat any subsequent attacks.
- TOSYMRA is not indicated for the preventive treatment of migraine.
- TOSYMRA is not indicated for the treatment of cluster headache.

Please see Important Safety Information on pages 12 and 13 and accompanying full Prescribing Information.



tosymra™
(sumatriptan nasal spray) 10 mg

Your patients who are currently using acute migraine medication may be looking for other options¹

Patients face challenges with migraine attacks, including:



- Nausea that interferes with taking oral medication²
- Gastroparesis or vomiting that may limit oral medication absorption³



- Inability to achieve fast migraine relief and freedom from pain^{4,5}

Multiple studies highlight the issues commonly experienced by migraine patients

- According to the American Migraine Prevalence and Prevention Study (N=8233), **>50% of patients with migraine experienced inadequate 2-hour pain freedom** with their usual acute treatment⁴
- In a survey conducted at 3 headache centers in the US and Sweden (N=183), **37% of patients were not satisfied with the speed of effect** from their current migraine therapy (96.4% were current triptan users)⁵
- According to the Migraine in America Symptoms and Treatment (MAST) study (N=15,133), **side effects and lack of efficacy were the primary reasons for discontinuing** triptan use⁶

Up to 92% of patients have experienced nausea
(with or without vomiting) during migraine attacks, according to a patient-reported survey (N=500)⁷

Many migraine patients also suffer from delayed gastric emptying, also known as gastroparesis. With oral migraine medications, gastroparesis can³

- Delay absorption
- Reduce effectiveness
- Delay peak concentrations

~80% of migraine patients reported a willingness to try a different acute medication, according to the US and Swedish survey referenced above.⁵



Not all migraines are the same

A different treatment approach may be needed depending on your patients' symptoms and lifestyle needs



BILL 40, FLIGHT ATTENDANT

BACKGROUND

Bill has traditionally suffered from 3 migraines per month. However, due to his high-stress job, the frequency of his migraines has almost doubled. He now experiences between 4 to 6 moderate-to-severe migraines per month. Bill's migraines are rapid in onset, and the severity of each migraine typically builds within 20 minutes.

CURRENT/PREVIOUS TREATMENT

Bill has tried both oral and nasal triptans. Bill experienced a slower onset of pain relief than he needed, forcing him to lie down for approximately 2 hours.

CHIEF COMPLAINT

Bill lives a busy lifestyle and requires a fast, effective, and tolerable migraine medication that won't interfere with his schedule.

BILL NEEDS

- A treatment option that fits his busy schedule
- A rapid and effective treatment option for migraine pain
- A treatment option that he tolerates well



JENN 28, PHARMACIST

BACKGROUND

Jenn experiences migraines 2 to 4 times per month. Her migraines typically start as mild and then progress slowly to moderate-to-severe pain. Though gradual, these migraines can last up to 2 days, and relief is typically slow. Jenn also has a history of gastrointestinal (GI) distress and gastroparesis.

CURRENT/PREVIOUS TREATMENT

Jenn typically treats her migraines with oral triptans, but nausea makes it difficult for her to take her medication.

CHIEF COMPLAINT

Typically, Jenn's migraines are accompanied by nausea, requiring the addition of antiemetic medication. It is possible that gastroparesis has delayed the absorption of oral migraine treatment, leaving her with migraines that are often slow to respond to treatment.

JENN NEEDS

- A migraine medication that provides rapid and effective relief
- An alternative to oral medication when she is nauseated

Not actual patients.

Please see Important Safety Information on pages 12 and 13 and accompanying full Prescribing Information.

TOSYMRA achieves median peak plasma concentration faster than injectable Imitrex® (sumatriptan)⁸

- TOSYMRA is a novel nasal spray formulation of sumatriptan 10 mg developed with Intravail® technology^{8,9}
 - TOSYMRA with Intravail®, n-Dodecyl beta-D-maltoside or DDM, allows efficient transmucosal absorption of sumatriptan⁸
- Pharmacokinetic (PK) equivalence to a 4-mg subcutaneous (subQ) injection of Imitrex® (sumatriptan) has been shown^{8,9*}
 - Median peak plasma concentration of sumatriptan was observed **5 minutes faster** with TOSYMRA compared with 4-mg and 6-mg subQ injections of Imitrex® (sumatriptan)⁸

A 10-mg dose of TOSYMRA demonstrated a markedly increased rate and extent of sumatriptan absorption when compared with Imitrex® (sumatriptan) 20-mg nasal spray⁸

TOSYMRA achieved peak plasma concentration **8x faster**

median time of 15 minutes vs 120 minutes⁸

The bioavailability of TOSYMRA was **2x higher**

in the 2 hours following administration⁸

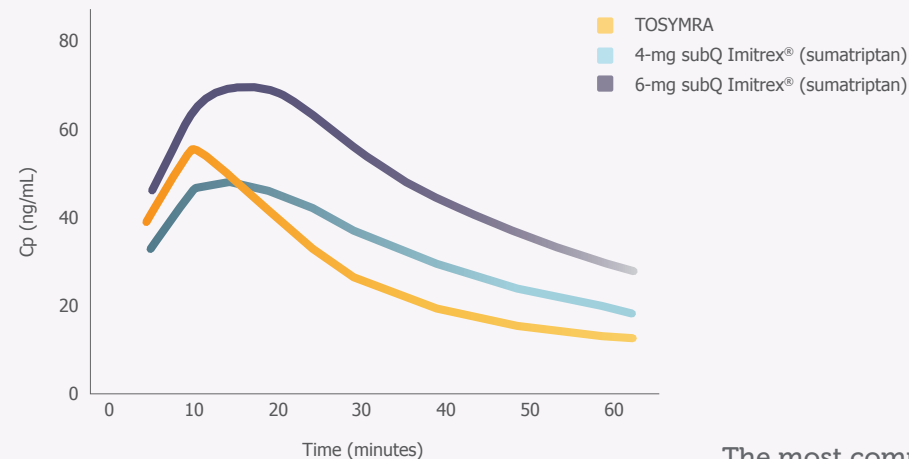
Mean peak plasma concentration of TOSYMRA was **3x higher**

with half the dose of sumatriptan⁸

PK data indicates that minimal to no swallowing of sumatriptan occurred after administration of TOSYMRA⁸

- Double peaks[†] were observed for Imitrex® (sumatriptan) 20-mg nasal spray⁸

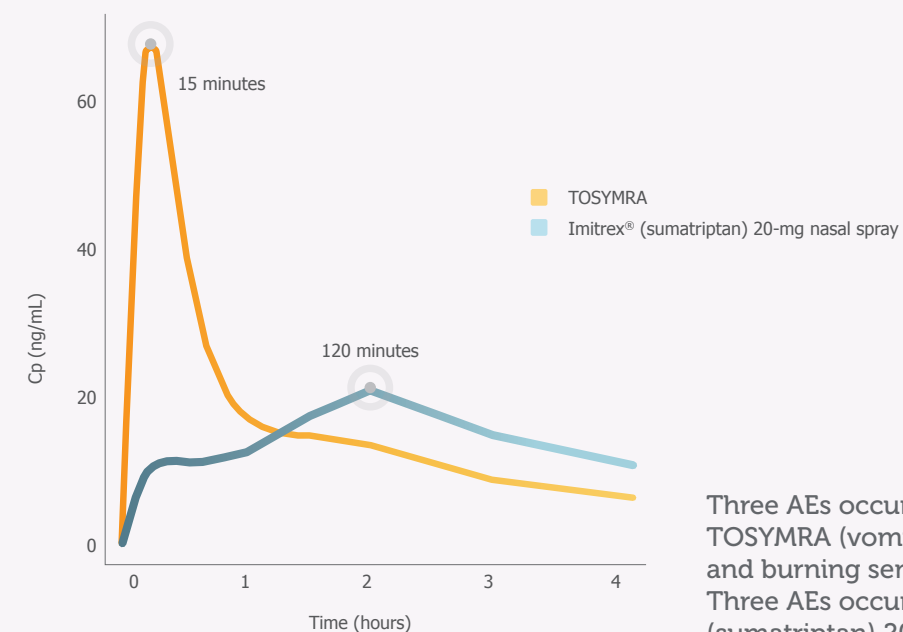
Mean sumatriptan plasma concentration-time profile: TOSYMRA vs subQ Imitrex® (sumatriptan)⁸



Results from a randomized, open-label, single-dose, three-way crossover bioavailability study in healthy subjects (N=73). Cp=plasma concentration.

The most common adverse events (AEs) ($\geq 10\%$) for TOSYMRA were dysgeusia, headache, nausea, and dizziness. All events were mild in severity.⁸

Mean sumatriptan plasma concentration-time profile: TOSYMRA vs Imitrex® (sumatriptan) 20-mg nasal spray⁸



Results from a randomized, crossover, pilot pharmacokinetic study conducted in 18 healthy adults.⁸ Cp=plasma concentration.

Three AEs occurred with TOSYMRA (vomiting, paresthesia, and burning sensation in nose). Three AEs occurred with Imitrex® (sumatriptan) 20-mg nasal spray (nausea and throat irritation [2 events]). All events were mild or moderate in intensity.¹⁰

*Following administration of a single dose of TOSYMRA in 73 healthy subjects, the relative bioavailability of sumatriptan was approximately 87% (90% confidence interval [CI]: 82-94) of that obtained following a 4-mg subQ injection of Imitrex® (sumatriptan).⁹

[†]Double peaks in plasma serum concentration suggest that only some of the sumatriptan was absorbed nasally after administration, while more of the drug was swallowed and absorbed through the gastrointestinal system at a later time.¹¹

For your patients who require a fast-acting, easy-to-use acute migraine treatment option that bypasses the stomach

TOSYMRA delivers the efficacy of an injectable in a nasal spray⁹

The efficacy of TOSYMRA nasal spray is based on relative bioavailability of TOSYMRA compared to a 4-mg Imitrex[®] (sumatriptan) subQ injection in healthy adults⁹

Proportion of patients with migraine relief* by time⁹

Data from the 4-mg dose arm (n=30) of a sumatriptan subQ dose-ranging, single-attack study (N=242).⁹

 Migraine Relief*	 % Of Patients
10 minutes	13%
30 minutes	37%
1 hour	50%
2 hours	57%

*Migraine relief was defined as the reduction of moderate or severe pain to no or mild pain after dosing without use of rescue medication.⁹

57% of patients achieved migraine pain relief at 2 hours post-administration compared with 21% of patients receiving placebo⁹

Sumatriptan injection also has been shown to relieve photophobia, phonophobia, nausea, and vomiting associated with migraine attacks⁹

An open-label, repeat-dose study assessed the safety and tolerability of TOSYMRA in 167 adult patients diagnosed with episodic migraine with or without aura.¹²

A post hoc analysis evaluated the change in the number of migraine headache days and hours at month 6 compared to month 1.¹³

Patients receiving TOSYMRA, who experienced a migraine in both month 1 and 6 (n=105), achieved a statistically significant reduction in mean number of¹³



MIGRAINE HEADACHE DAYS
2.3 DAYS' REDUCTION

Mean migraine headache days in month 6 was 3.2, a decrease of 2.3 days from month 1 ($P<.001$)



MIGRAINE HEADACHE HOURS
10.9 HOURS' REDUCTION

Mean number of migraine hours in month 6 was 10.6, a 10.9-hour reduction from month 1 ($P<.001$)

In the open-label, repeat-dose study of TOSYMRA, the most common treatment-emergent AEs were application site pain, dysgeusia, application site reaction, upper respiratory tract infection, nasopharyngitis, and sinusitis.¹²
TOSYMRA is indicated for the acute treatment of migraine with or without aura in adults.

TOSYMRA delivers the efficacy of an injection in a well-tolerated nasal spray^{9,12}

The most common adverse reactions ($\geq 5\%$ and $>$ placebo) with sumatriptan injection (6 mg) were tingling, dizziness/vertigo, warm/hot sensation, burning sensation, feeling of heaviness, pressure sensation, flushing, feeling of tightness, and numbness.

6-month safety data demonstrates that TOSYMRA is generally well tolerated¹²

TOSYMRA, with Intravail® technology, effectively delivers sumatriptan intranasally. It may be an alternative for patients who cannot tolerate oral treatments.

In an open-label, repeat-dose study designed to assess the safety and tolerability of TOSYMRA in 167 adult patients who collectively reported 2211 migraines,¹²

Low rates of triptan-related AEs were reported

3292 doses of TOSYMRA were administered^{12,14}

94 triptan-related TEAEs were reported in 19.2% of patients

Of those
94 events^{10*}

>

80

WERE

MILD

14

WERE

MODERATE

0

were
severe

- A 2.9% triptan-related TEAE rate was demonstrated (94 events out of 3292 individual doses)¹⁴
- 5 patients (3%) discontinued due to adverse events¹⁴

TEAE=treatment-emergent adverse event.

*Most common triptan-related TEAEs occurring in $\geq 1\%$ of patients: dizziness, nausea, chest discomfort, paresthesia, feeling hot, feeling jittery, muscle tightness, and vomiting.

 **tosymra**[™]
(sumatriptan nasal spray) 10 mg

Low rates of dysgeusia in the 6-month open-label safety study¹²

- 21% of patients (n=35) experienced dysgeusia
 - The majority of cases were mild (30/35)¹²
 - No severe cases of dysgeusia were reported¹²
 - The per-dose percentage of dysgeusia was 7% (232 cases out of 3292 individual doses)^{12,15}
- In addition to dysgeusia, other common adverse reactions reported with TOSYMRA over the course of 6 months in the open-label trial were application site reactions (36%) and throat irritation (5%)

Please see Important Safety Information on pages 12 and 13 and accompanying full Prescribing Information.

Getting started with TOSYMRA is easy with Access Pathways®

Access Pathways® offers support for you and your patients every step of the way

ACCESS PATHWAYS® PROGRAM

Platinum Pass®

PAY \$0 PER PRESCRIPTION REGARDLESS OF COVERAGE*


(sumatriptan nasal spray) 10 mg

Present this Access Pathways® Platinum Pass® savings card and your prescription for Tosymra™ to your pharmacist for instant savings.

ATTENTION PATIENT:
Call Access Pathways® at 1-855-699-6064 to activate your Platinum Pass® savings card.
You understand that we, or our vendors, may need to contact your providers or others in order to obtain additional necessary information related to your treatment to allow us to process your claim.

ATTENTION PHARMACIST:
Please see reverse side for specific instructions to submit a claim.
*For commercially insured patients only. Restrictions apply. Medicare, Medicaid, and other federal and state health care program patients are not eligible. See back for details.



RxBIN: 610524

RxPCN: Loyalty

RxGRP: 50777854

Issuer: (80840)

ID: 1234-Sample

Simple to prescribe

Upsher-Smith is dedicated to eliminating the administrative hassles and cost barriers of prescribing medications. It's why we created the Access Pathways® Program.

Accessible

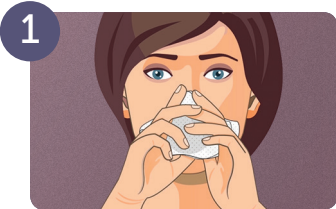
The Platinum Pass® savings card buys down a one-month supply for a commercially insured claim to \$0,* even if the commercial payer has rejected the prior authorization or the product is not covered.

Affordable

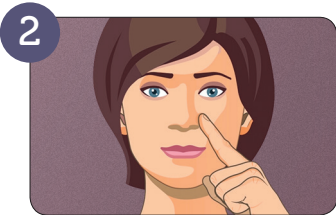
Patients can present their Access Pathways® Platinum Pass® for TOSYMRA to their pharmacist for instant savings. Patients pay \$0 per prescription, regardless of coverage.*

*Restrictions apply. Maximum of eight single-dose nasal spray devices per month. Medicare, Medicaid, and other federal and state healthcare program patients are not eligible.

TOSYMRA offers a “spray-on-the-go,” mist-like administration^{9,16}



While sitting upright, gently blow the nose.



Press 1 nostril with a finger to keep it closed.



Deliver 1 dose of TOSYMRA with one spray

- By holding the device upright
- Inserting half of the spray nozzle into the open nostril
- Angling the device nozzle slightly outward and tilting head slightly backward
- Slowly breathing in and pressing the plunger up to release the spray

Once administration is complete, advise patients to

- Gently breathe in through the nose and out through the mouth
- Repeat for 10 to 20 seconds

Remind patients that it is normal to feel liquid in the nose or at the back of the throat.

Please refer to full Prescribing Information for complete Instructions For Use.



Note: Store at room temperature. Do not refrigerate or freeze.

One dose. One spray. One migraine treated.

IMPORTANT SAFETY INFORMATION

TOSYMRA is contraindicated in patients with recent (i.e., within 24 hours) use of ergotamine-containing medication, ergot-type medication, or another 5-HT₁ agonist; concurrent or recent (within 2 weeks) use of a monoamine oxidase (MAO)-A inhibitor; or known hypersensitivity to sumatriptan (angioedema and anaphylaxis seen). Please see full Prescribing Information for the complete list of Contraindications.

Please see Important Safety Information on pages 12 and 13 and accompanying full Prescribing Information.

IMPORTANT SAFETY INFORMATION

TOSYMRA™ is contraindicated in patients with:

- Ischemic Coronary Artery Disease (CAD) or coronary artery vasospasm (including Prinzmetal's angina)
- Wolff-Parkinson-White syndrome or arrhythmias associated with other cardiac accessory conduction pathway disorders
- History of stroke or transient ischemic attack or history of hemiplegic or basilar migraine
- Peripheral vascular disease
- Ischemic bowel disease
- Uncontrolled hypertension
- Recent (i.e., within 24 hours) use of ergotamine-containing medication, ergot-type medication, or another 5-HT₁ agonist
- Concurrent or recent (within 2 weeks) use of a monoamine oxidase (MAO)-A inhibitor
- Known hypersensitivity to sumatriptan (angioedema and anaphylaxis seen)
- Severe hepatic impairment

There have been rare reports of serious cardiac adverse reactions, including acute myocardial infarction, occurring within a few hours following administration of sumatriptan. Some of these reactions occurred in patients without known CAD. TOSYMRA, like other 5-HT₁ agonists, may cause coronary artery vasospasm. Perform a cardiovascular evaluation in triptan-naïve patients who have multiple cardiovascular risk factors prior to receiving TOSYMRA. For patients with multiple cardiovascular risk factors who have a negative cardiovascular evaluation, consider administering the first dose of TOSYMRA in a medically supervised setting and performing an ECG immediately following administration. For such patients, consider periodic cardiovascular evaluation in intermittent long-term users of TOSYMRA.

Life-threatening disturbances of cardiac rhythm, leading to death in some cases, have been reported within a few hours following the administration of 5-HT₁ agonists. Discontinue TOSYMRA if any of these cardiovascular disturbances occur.

Cerebral hemorrhage, subarachnoid hemorrhage, and stroke have occurred in patients treated with 5-HT₁ agonists, and some have resulted in fatalities. Discontinue TOSYMRA if these occur.

Sensations of tightness, pain, pressure, and heaviness in the precordium, throat, neck, and jaw commonly occur after treatment with sumatriptan injection and are usually non-cardiac in origin.

TOSYMRA may cause non-coronary vasospastic reactions, such as peripheral vascular ischemia, gastrointestinal vascular ischemia and infarction, splenic infarction, and Raynaud's syndrome.

Overuse of acute migraine drugs may lead to medication overuse headache. Detoxification of patients and treatment of withdrawal symptoms may be necessary.

Serotonin syndrome may occur with TOSYMRA, particularly during co-administration with selective serotonin reuptake inhibitors, serotonin norepinephrine reuptake inhibitors, tricyclic antidepressants, and MAO inhibitors. Discontinue TOSYMRA if serotonin syndrome is suspected.



Please see enclosed Full Prescribing Information.

Significant elevation in blood pressure, including hypertensive crisis, has been reported on rare occasions in patients treated with 5-HT₁ agonists, including patients without a history of hypertension. Monitor blood pressure in patients treated with TOSYMRA.

Seizures have been reported following administration of sumatriptan. Some have occurred in patients with either a history of seizures or concurrent conditions predisposing to seizures. TOSYMRA should be used with caution in patients with a history of epilepsy or conditions associated with a lowered seizure threshold.

Most common adverse reactions (≥5% and > placebo) with sumatriptan injection were tingling, dizziness/vertigo, warm/hot sensation, burning sensation, feeling of heaviness, pressure sensation, flushing, feeling of tightness, and numbness.

This safety information is not comprehensive. Please refer to the TOSYMRA full Prescribing Information, Patient Information, and Instructions for Use. You can also visit www.upsher-smith.com or call 1-888-650-3789.

You are encouraged to report suspected adverse reactions to Upsher-Smith Laboratories, LLC at 1-855-899-9180 or to the FDA by visiting www.fda.gov/medwatch or calling 1-800-FDA-1088.

INDICATION AND USAGE

TOSYMRA is indicated for the acute treatment of migraine with or without aura in adults.

Limitations of Use:

- Use only if a clear diagnosis of migraine has been established. If a patient has no response to the first migraine attack treated with TOSYMRA, reconsider the diagnosis before TOSYMRA is administered to treat any subsequent attacks.
- TOSYMRA is not indicated for the preventive treatment of migraine.
- TOSYMRA is not indicated for the treatment of cluster headache.

References: 1. Tepper S, Johnstone M. Breath-powered sumatriptan dry nasal powder: an intranasal medication delivery system for acute treatment of migraine. *Med Devices*. 2018;11:147-156. 2. Láinez M, García-Casado A, Gascon F. Optimal management of severe nausea and vomiting in migraine: improving patient outcomes. *Patient Relat Outcome Meas*. 2013;4:61-73. 3. Parkman H. Migraine and gastroparesis from a gastroenterologist's perspective. *Headache*. 2013;53(suppl 1):4-10. 4. Lipton RB, Munjal S, Buse DC, Fanning KM, Bennett A, Reed ML. Predicting Inadequate Response to Acute Migraine Medication: Results From the American Migraine Prevalence and Prevention (AMPP) Study. *Headache*. 2016;56:1635-1648. 5. Bigal M, Rapoport A, Aurora S, Sheftell F, Tepper S, Dahlof C. Satisfaction with current migraine therapy: experience from 3 centers in US and Sweden. *Headache*. 2007;47:475-479. 6. Pavlovic JM, Buse DC, Reed ML, Fanning KM, Munjal S, Alam A. Triptan Use and Discontinuation Among a Population Sample of Persons with Migraine: Results from Migraine in America Symptoms and Treatment (MAST) Study. Presented at: 60th Annual Scientific Meeting of the American Headache Society®; June 28, 2018; San Francisco, CA. 7. Silberstein S. Migraine symptoms: results of a survey of self-reported migraineurs. *Headache*. 1995;35:387-396. 8. Munjal S, Gautam A, Offman E, Brand-Schieber E, Allenby K, Fisher DM. A randomized trial comparing the pharmacokinetics, safety, and tolerability of DFN-02, an intranasal sumatriptan spray containing a permeation enhancer, with intranasal and subcutaneous sumatriptan in healthy adults. *Headache*. 2016;56(9):1455-1465. 9. TOSYMRA [package insert]. Maple Grove, MN: Upsher-Smith Laboratories, LLC; 2019. 10. Data on file. Upsher-Smith Laboratories, Maple Grove, MN. 11. Wermeling DPH, Miller JD, Archer SM, Manaligod JM, Rudy AC. Bioavailability and pharmacokinetics of lorazepam after intranasal, intravenous, and intramuscular administration. *J Clin Pharmacol*. 2001;41:1225-1231. 12. Munjal S, Brand-Schieber E, Allenby K, Spierings ELH, Cady RK, Rapoport AM. A multicenter, open-label, long-term safety and tolerability study of DFN-02, an intranasal spray of sumatriptan 10 mg plus permeation enhancer DDM, for the acute treatment of episodic migraine. *J Headache Pain*. 2017;18(1):31. 13. Halvorsen MB, Zachman MB, Munjal S, Rapoport AM. Evaluation of the Number of Migraine Headache Days and Hours in a Multicenter, Open-Label, Long-Term Safety Study of DFN-02 (Tosymra™; an Intranasal Spray of Sumatriptan 10 mg Plus Permeation Enhancer DDM), for the Acute Treatment of Migraine. Presented at: PAINWeek 2019; September 3-7, 2019; Las Vegas, NV. 14. Halvorsen MB, Zachman MB, Munjal S, Rapoport AM. Triptan-Related Adverse Events in a Multicenter, Open-label, Long-Term, Safety Study of DFN-02 (Tosymra™; an Intranasal Spray of Sumatriptan 10 mg Plus Permeation Enhancer DDM), for the Acute Treatment of Migraine. Presented at: PAINWeek 2019; September 3-7, 2019; Las Vegas, NV. 15. Halvorsen MB, Zachman MB, Munjal S, Rapoport AM. Dysgeusia Rates in a Multicenter, Open-label, Long-Term, Safety Study of DFN-02 (Tosymra™; an Intranasal Spray of Sumatriptan 10 mg Plus Permeation Enhancer DDM), for the Acute Treatment of Migraine. Presented at: PAINWeek 2019; September 3-7, 2019; Las Vegas, NV. 16. TOSYMRA Instructions for Use. Upsher-Smith Laboratories, LLC; July 2019.

For your patients who are dissatisfied with their acute migraine medication,

TOSYMRA™ delivers the efficacy of an injection with the convenience of a nasal spray.

TOSYMRA is indicated for the acute treatment of migraine with or without aura in adults.

TOSYMRA is a novel nasal spray with the efficacy of a 4-mg subcutaneous injection of sumatriptan⁹

A 10-mg dose of TOSYMRA demonstrated a markedly increased rate and extent of sumatriptan absorption when compared with Imitrex® (sumatriptan) 20-mg nasal spray^{8*}

- Peak plasma concentration was achieved in a median time of 15 minutes, **8x faster than Imitrex® (sumatriptan) 20-mg nasal spray**, which achieved C_{max} in 120 minutes⁸
- In the 2 hours following administration, **the bioavailability of sumatriptan was twice as high with TOSYMRA** compared with Imitrex® (sumatriptan) 20-mg nasal spray⁸
- **Mean peak plasma concentration of sumatriptan was 3x higher** with TOSYMRA 10 mg compared with Imitrex® (sumatriptan) 20-mg nasal spray⁸
- **PK data indicates that minimal to no swallowing of sumatriptan occurred after administration with TOSYMRA**

*Results from a randomized, crossover, pilot pharmacokinetic study conducted in 18 healthy adults.⁸

- TOSYMRA offers a “spray-on-the-go,” mist-like administration
- TOSYMRA can be administered without the need for deep inhalation^{9,16}

TOSYMRA is redefining the intranasal experience to deliver effective migraine relief⁹

IMPORTANT SAFETY INFORMATION

TOSYMRA is contraindicated in patients with ischemic Coronary Artery Disease (CAD) or coronary artery vasospasm (including Prinzmetal's angina); Wolff-Parkinson-White syndrome or arrhythmias associated with other cardiac accessory conduction pathway disorders; history of stroke or transient ischemic attack or history of hemiplegic or basilar migraine; peripheral vascular disease; ischemic bowel disease; uncontrolled hypertension; severe hepatic impairment. Please see full Prescribing Information for the complete list of Contraindications.

Please see Important Safety Information on pages 12 and 13 and accompanying full Prescribing Information.

 **tosymra™**
(sumatriptan nasal spray) 10 mg

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Partners in Health Since 1919

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