### PROPEL® Mini

(mometasone furoate implant, 370 µg)

# intersect

#### **Instructions For Use**

#### CAREFULLY READ ALL INSTRUCTIONS PRIOR TO USE

STERILE: Sterilized by irradiation. Do not use if the package is open or damaged

The product should be stored at room temperature (approximately 25° C) with excursions permitted to 15-30° C.

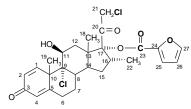
SINGLE USE: Product is supplied sterile and for single use only.

Caution: Federal law (USA) restricts this product to sale by or on the order of a physician.

#### PRODUCT DESCRIPTION

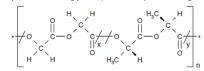
The PROPEL® Mini Sinus Implant provides sustained release of mometasone furoate via a bioabsorbable sinus implant. A delivery system is provided to insert the implant.

The PROPEL Mini Sinus Implant contains mometasone furoate (active ingredient), a synthetic corticosteroid with anti-inflammatory activity. Mometasone furoate is a white to off-white powder. The chemical name is 9a,21-dichloro-11β,17a-dihydroxy-16a-methylpregna-1,4-diene-3,20-dione 17-(2-furoate), with the empirical formula  $C_{27}H_{30}Cl_2O_{6}$ , and a molecular weight of 521.43 g/mol. Mometasone furoate is a hydrophobic drug that is practically insoluble in water. Mometasone furoate is stable under aqueous, acidic and oxidative conditions. Mometasone furoate can degrade under extreme basic, thermal and photolytic conditions. The chemical structure is shown below. The drug is embedded in a bioabsorbable polymer matrix containing poly-(DL-lactide-co-glycolide) and polyethylene glycol (inactive ingredients) which provides for gradual release of the drug.



nemical structure of mometasone furoate

The inactive ingredients on the sinus implant are poly-(DL-lactide-co-glycolide) and polyethylene glycol. Poly-(DL-lactide-co-glycolide) is an amorphous biodegradable polymer. The chemical structure is shown below



Chemical structure of poly-(DL-lactide-co-glycolide)

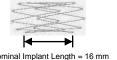
Polyethylene glycol is a hydrophilic polyether compound that is highly flexible. It is non-toxic and non-immunogenic. The chemical structure is shown below

Chemical structure of polyethylene glycol

#### Implant Component Description

The PROPEL Mini implant is comprised of a synthetic bioabsorbable co-polymer, poly(L-lactide-co-glycolide), PLG.

The implant is bioabsorbable and is designed to accommodate the size and variability of the post-surgical ethmoid or frontal sinus anatomy. Once inserted, the implant is designed to be self-retaining against the mucosa of the surgically enlarged sinus in order to maintain sinus patency and deliver drug to the mucosa. The PROPEL Mini implant should be inserted by a physician under endoscopic visualization. A delivery system is provided to access the ethmoid or frontal sinus and insert the implant. A crimper, loading tool, and funnel are provided to assist in the crimping and loading of the implant into the delivery system.



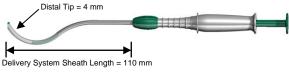


Crimper





Funnel



Other Components Available: The Propel Mini Straight Delivery System (5-pack) is sold and packaged separately as an alternative option for ethmoid sinus access and implant delivery. The 5-pack includes

- Straight Delivery System x 5
- Funnel x 5

#### INDICATIONS AND INTENDED USE

The PROPEL Mini Sinus Implant is intended for use in patients ≥ 18 years of age following ethmoid/frontal sinus surgery to maintain patency of the ethmoid sinus or frontal sinus opening. The PROPEL Mini Sinus Implant separates/dilates surrounding mucosal tissues, provides stabilization of the middle turbinate, prevents obstruction by adhesions, and reduces inflammation. The implant reduces the need for post-operative intervention such as surgical adhesion lysis and/or use of oral steroids.

**PRECAUTIONS** 

#### CONTRAINDICATIONS:

The use of the PROPEL Mini Sinus Implant is contraindicated in the following patients:

Patients with suspected or confirmed hypersensitivity and/ or intolerance to mometasone furoate.

- Patients with a known hypersensitivity and/ or intolerance to lactide, glycolide or caprolactone copolymers. WARNINGS The PROPEL Mini Sinus Implant is designed for single patient use only. Do not reprocess or reuse.

## Do not use if the package is open or damaged

#### Special care should be taken to avoid bending, twisting or damaging the implant.

- The implant is not designed to be modified by the physician. The implant is not intended to be compressed and loaded into the delivery system more than two times.
- The implant must be placed under endoscopic visualization. The implant exhibits no antimicrobial properties.
- Foreign body reaction may occur as is possible with most surgical adjuncts.
- In rare instances, the physiochemical condition associated with sinus surgery, both with and without sinus implants or packing, may present a risk of toxic shock syndrome (TSS).

  Pediatric Use: The safety and effectiveness of the implant in pediatric patients have not been established.
- Pregnancy and Nursing Females: The safety and effectiveness of the implant in pregnant or nursing females have not been

### DRUG INFORMATION

MECHANISM OF ACTION: Corticosteroids have been shown to have a wide range of effects on multiple cell types (e.g., mast cells, eosinophils, neutrophils, macrophages, and lymphocytes) and mediators (e.g., histamine, eicosanoids, leukotrienes, and cytokines) involved in inflammation. The precise mechanism behind the anti-inflammatory properties of the eluted mometasone furoate is not known.

PHARMACOKINETICS: The PROPEL Sinus Implant underwent pharmacokinetic testing. Following bilateral drug-eluting PROPEL implant placement after sinus surgery for chronic sinusitis and subsequent weekly morning blood sampling for 4 weeks in 5 adult patients, plasma mometasone furoate concentrations were not quantifiable at any time point. Mean cortisol concentrations were within normal limits

### DRUG INTERACTIONS

No drug-drug interaction studies have been conducted with the implant.

### CARCINOGENICITY, GENOTOXICITY AND REPRODUCTIVE TOXICITY

No long term studies in animals have been performed to evaluate the carcinogenic potential of the implant.

# PREGNANCY

There have been no controlled studies in pregnant women using the PROPEL Mini Sinus Implant. The PROPEL Mini Sinus Implant should be used during pregnancy only if the potential benefits justify the potential risk. LACTATION It is not known if mometasone furoate is excreted in human milk. Because other corticosteroids are excreted in human milk, the PROPEL Mini implant should be used only if the potential benefits justify the potential risk

DOSAGE AND ADMINISTRATION Each PROPEL Mini implant contains 370ug of mometasone furoate which is gradually released over time

### **DIRECTIONS FOR USE**

Remove the implant and delivery system from its protective packaging using sterile technique. Inspect for any obvious damage. Note: Ensure the funnel is attached to the distal end of the delivery system. The implant must be compressed and loaded into the tip of the delivery system prior to use.

- Lift the stent off its holder.

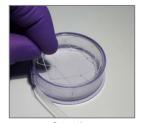
- Gently place stent into crimper. Begin by placing one side of the stent into the crimper, opposite the belt pull tab. Gently work the other side into the crimper until it seats against the crimper base.

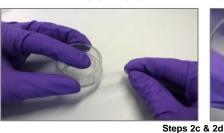
  Grasp the crimper in one hand with the opening facing up.

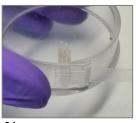
  Slowly pull the belt with the other hand until the stent is fully crimped. To facilitate the crimping process, guide the implant with your index finger as it compresses radially within the belt. Be sure to pull the belt parallel to the floor of the crimper. Gently remove the compressed stent from the crimper with three fingers.
- Insert compressed implant into the funnel attached to the distal tip of the delivery system
- Use the loading tool to push the stent past the opening of the funnel. Carefully remove the funnel, taking care not to dislodge the implant from the tip of the delivery system. If the implant begins to withdraw from the tip during funnel removal, replace the funnel and use the loading tool to push the implant back into the delivery

# system, then gently squeeze the tip of the delivery system to hold the implant in place while removing the funnel. CAUTION: Do not leave the PROPEL Mini implant in the crimped state for more than three minutes prior to placement.

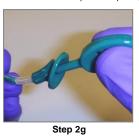
The implant may be compressed and loaded into the delivery system tip up to two times. The implant may be compressed the second time using the crimper (by expanding the belt inside the crimper and repeating the steps above.

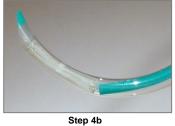












For adequate visualization, ensure hemostasis in operated sinus cavities prior to insertion. Advance the delivery system into the sinus cavity using endoscopic visualization.

To insert the implant in the ethmoid sinus:

- Ensure that the delivery system is oriented so the distal tip is curved superiorly toward the posterior roof of the sinus cavity b. Align the distal tip of the green inner pusher with the anterior edge of the middle turbinate
- Insert the implant by depressing the pusher while simultaneously withdrawing the delivery system
- Confirm final placement by endoscopic visualization. Confirm the proximal loops of the implant align with the anterior edge of the middle turbinate. Confirm the implant is well apposed to the tissue to maximize drug delivery. To adjust the position of the implant. d.
- use standard surgical instruments.
- To insert the implant in the frontal sinus opening:
  - Ensure that the delivery system is oriented so the distal tip is curved superiorly toward the frontal sinus. Advance the distal tip of the delivery system to the frontal sinus.
  - Insert the implant by depressing the pusher while simultaneously withdrawing the delivery system
  - Confirm final placement by endoscopic visualization. Confirm the loops of the implant support the frontal sinus opening. Confirm the implant is well apposed to the tissue to maximize drug delivery. To adjust the position of the implant, use standard surgical d.

Post-Operative Care:

- . As part of routine post-operative care, frequent use of saline sprays, rinses or irrigations is recommended to keep the implant moist.
- Routine debridement may be performed as part of the usual post-operative care

The implant may be removed at the discretion of the physician by use of suction, forceps or other surgical instruments.

Intersect ENT Inc. 1555 Adams Drive Menlo Park, CA 94025 650-641-2100 www.intersectENT.com

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# **Instructions For Use**

#### **CLINICAL TRIALS**

PROPEL Mini is a smaller version of the PROPEL Sinus Implant. The efficacy and safety of the PROPEL implant, when used in adult patients with chronic sinusitis undergoing functional endoscopic sinus surgery (ESS), have been studied in three prospective clinical trials conducted in the United States and totaling 205 patients. The principal safety and efficacy information is derived from the ADVANCE II clinical trial and is supported by the ADVANCE clinical trial and CONSENSUS II pilot study. In all three studies, implant placement occurred following ethmoidectomy. Implants were successfully placed in a total of 400 sinuses in the 205 patients. Of the 400 implants, 16 (4%) were removed and replaced immediately after deployment due to sub-optimal apposition, crossed struts or inadvertent removal, and 3 (0.8%) were damaged during preparation. In these 3 cases, a new implant was used successfully.

The ADVANCE II study was a prospective randomized, double-blind, concurrently controlled study that enrolled 105 patients at 11 study centers. The study utilized an intra-patient control design to assess the safety and efficacy of the PROPEL Sinus Implant compared to the non-drug control version of the implant. The primary efficacy endpoint was the reduction in need for post-operative interventions at Day 30, determined from video-endoscopies reviewed by a panel of independent blinded sinus surgeons. Post-operative intervention was a composite endpoint that included surgical intervention required to separate an adhesion and/or oral steroid intervention to resolve recurrent ethmoid sinus inflammation, edema and/or polyp recurrence. Additional efficacy endpoints were determined by endoscopic grading done by clinical investigators at the study centers. The primary safety endpoint was ocular safety defined as absence of clinically significant sustained elevation (≥10 mm Hg) in intraocular pressure through Day 90. Ocular examinations also included assessment of changes in or development of lens opacities. The PROPEL implant delivery success rate was 100%. The primary efficacy endpoint was met demonstrating a statistically significant reduction in the need for post-operative interventions at Day 30 (p=0.0280). There were no clinically significant increases in intraocular pressure and no clinically significant changes from baseline in lens opacities.

		Treatment	Control	Difference / p-value <sup>a</sup> (Ctrl - Tx)
Number of patients in ITT population	N	105	105	
PRIMARY EFFICACY RESULTS§	Evaluable*	N (%)	N (%)	
Post-Operative Intervention	96	32 (33.3%)	45 (46.9%)	13 (13.5%) / 0.0280
PRIMARY SAFETY RESULTS				
Clinically Significant Elevation in IOP**	105	0 (0.0%)	0 (0.0%)	p < 0.0001
	95% CI***	0.0000, 0.0352	0.0000, 0.0352	•
SECONDARY EFFICACY RESULTS <sup>§</sup>	Evaluable*	N (%)	N (%)	
Frank Polyposis (Grades 2 and 3) §	85	16 (18.8%)	29 (34.1%)	13 (15.3%) / 0.0023
SECONDARY EFFICACY RESULTS*	Evaluable*	N (%)	N (%)	
Frank Polyposis (Grades 2 and 3)	104	4 (3.8%)	8 (7.7%)	4 (3.9%) / 0.3437
Middle Turbinate Lateralization	105	2 (1.9%)	7 (6.7%)	5 (4.8%) / 0.1250
Significant Adhesions	104	5 (4.8%)	13 (12.5%)	8 (7.7%) / 0.0386

<sup>&</sup>quot;All patients returned for the Day 30 visit and had their endoscopy recorded for grading by independent panel, however, data were considered missing if the panel could not grade a video due to sub-optimal video quality or inadequate imaging of the relevant anatomy. Inadequate imaging of the relevant nantomy and adhesion prevents access into the ethmoid sinus. Since the planned statistical test (McNemar's test of correlated proportions) requires subjects with an observed pair of outcomes, 9 subjects could not be included in the test. Evaluable subjects were those with gradable sinuses on both sides.

\*Intracoular pressure

\*Exact 2-sided confidence intervals are calculated by the method of Clopper and Pearson.

The ADVANCE study was a single-cohort, open-label trial that enrolled 50 patients with either unilateral or bilateral ethmoid sinus disease at 7 study centers. Follow-up assessments included endoscopic examination and scoring through 2 months, with patient symptom scoring done through 6 months (Sinonasal Outcomes Test 22 (SNOT22), Rhinosinusitis Disability Index (RSDI), and a total nasal symptom scoring instrument (TNSS)). Ocular examinations consisted of IOP measurement and dilated slit-lamp examination for lens opacities at baseline and Day 30. The implant delivery success rate was 100%. The observed rate of polypoid tissue formation of any grade at 30 days was 10.0%; adhesions 1.1%; and middle turbinate lateralization 4.4%. There were no clinically significant changes from baseline in lens opacities or IOP. The mean changes from baseline to Day 60 and 6 months in total RSDI score were -36.2 and -29.7, respectively (p<0.0001). For the SNOT 22, the changes were -1.9 and -1.7, respectively (p<0.0001). All changes from baseline in RSDI, SNOT 22, and TNSS were statistically significant (p<0.0002).

The CONSENSUS II pilot study was a randomized, double-blind, concurrently controlled feasibility trial that enrolled 50 patients at 4 study centers. A total of 43 patients received the 23 mm PROPEL Sinus Implant and 7 patients received a shorter version. The study utilized an intra-patient design to assess the safety and efficacy of the drug-eluting PROPEL Sinus Implants at 4 study definers. A loar of 45 patients received a 3 minute reduction in this group of patients (N=5) received bilateral drug-eluting implants to assess systemic safety (described in Drug Information section). The implant delivery success rate was 100%. The drug-eluting implant so assess systemic safety (described in Drug Information section). The implant delivery success rate was 100%. The drug-eluting implant provided a statistically significant reduction in ethnic sinus inflammation, scored using a 100 mm visual analog scale, compared to the control implant at Day 21 (p=0.0032). Statistically significant reductions in inflammation were also observed at Day 30 and Day 45 (p≤0.0022). The drug-eluting implant reduced the frequency of middle turbinate lization, significant adhesion occurrence, and polypoid tissue formation through Day 30, compared to the control implant.

The efficacy and safety of the PROPEL Mini Sinus Implant when placed in the frontal sinus opening (FSO) following frontal sinus surgery in patients with chronic sinusitis has been assessed in a clinical trial conducted in the United States. The PROGRESS study was a prospective, randomized, blinded, controlled study that enrolled 80 patients at 11 study centers. The study utilized an intra-patient control design to assess the safety and efficacy of the PROPEL Mini Sinus Implant when placed following surgery on one sinus side compared to surgery alone on the controllateral side. The primary efficacy endpoint was the reduction in need for post-operative interventions at Day 30, as determined by an independent blinded sinus surgeon based on video-endoscopy review. Post-operative intervention was a composite endpoint that included surgical intervention required to debride obstructive adhesions or scar tissue formation (grade 2 or 3) in the FSO, and/or oral steroid intervention warranted to resolve recurrent inflammation or polypoid edema in the frontal recess/FSO. Secondary efficacy endpoints of frequency and severity of adhesion/scarring, polypoid edema and inflammation were determined endoscopically by independent reviewer and clinical investigators at the study centers. The safety measures of adverse events and serious adverse events were recorded throughout the 90-day follow-up period.

The PROGRESS study (mini cohort) demonstrated that PROPEL Mini implant placement in the FSO was successful (100% implant delivery), safe and effective in significantly (p=0.0070) reducing the need for post-operative interventions in the FSO at Day 30, as judged by an independent blinded reviewer (see table below). At Day 30, clinical investigators also observed a statistically significant reduction in need for post-operative interventions (p<0.0001), statistically significant reduction in need for oral steroid interventions (p=0.0015), need for surgical interventions (p=0.0225), degree of inflammation (p<0.0001) and rate of occlusion/restenosis (p=0.0002).

	N Evaluable <sup>§</sup>	Treatment (Tx) (N=80)	Control (Ctrl) (N=80)	p-value <sup>l</sup>
PRIMARY EFFICACY RESULTS, a,¥				
Need for Post-Operative Interventions, N (%)	67	26 (38.8%)	42 (62.7%)	0.0070
SECONDARY EFFICACY RESULTS				
Need for Post-Operative interventions, N (%) <sup>b</sup>	79	13 (16.5%)	33 (41.8%)	< 0.0001
Need for Oral Steroid Interventions, N (%) <sup>b</sup>	79	12 (15.2%)	27 (34.2%)	0.0015
Need for Surgical Interventions, N (%) <sup>b</sup>	75	3 (4.0%)	12 (16.0%)	0.0225
Inflammation (100-VAS, mm), Mean (SD) <sup>b</sup>	77	24.7 (27.02)	41.3 (29.34)	< 0.0001
Occlusion/Restenosis, N (%) <sup>b</sup>	76	16 (21.1%)	35 (46.1%)	0.0002

"Seventy nine patients returned for the Day 30 visit and had their endoscopy recorded for grading by independent reviewer, however, data were considered missing if the independent reviewer could not grade a video due to sub-optimal video quality or inadequate imaging of the relevant anatomy. Inadequate imaging of the relevant anatomy can occur when presence of significant edema or an adhesion prevents access into the frontal sinus. Since the planned statistical tests (theNemar's sexact binomial test was employed to obtain the 2-sided p-value at alpha level of 0.05 for the primary efficacy endpoint and other categorical efficacy endpoints; T-tests were performed for all continuous efficacy data on the side-to-side difference in scores.

\*Determined at Day 30 by clinical investigators

\*Determined at Day 30 by clinical investigators

Number of patients with evaluable sinuses on both sides. The p-values for the secondary endpoints were not adjusted for multiplicity. SD=Standard Deviation, VAS=Visual Analog Scale

#### ADVERSE EVENTS

#### **OBSERVED ADVERSE EVENTS**

PROPEL Mini is a smaller version of the PROPEL Sinus Implant. In three prospective clinical trials conducted in the United States and including 205 patients, a total of 400 PROPEL Sinus Implants were studied. Of these 400 implants, 250 were drug-eluting (243 were the 23 mm PROPEL Sinus Implant and 7 were a shorter version containing 220 µg of mometasone furoate, available only in the pilot trial) and 150 were non-eluting control implants (143 were the 23 mm length implants and 7 were a shorter version available only in the pilot trial). The overall incidence rate of product-related adverse events on a by-patient count was 1.5%: three patients had product related adverse events. One event was a headache with nasal burning and two were recurrent sinusitis. All three events resolved without sequelae. No patients withdrew due to an adverse event and no deaths occurred in any of the three trials. Adverse events (regardless of relationship to implant) reported in ≥2% of patients across all three trials are displayed in the table below.

Adverse Events From All Three Clinical Trials (N=205)			
Adverse Event Type	Percent of Patients Reporting		
Sinusitis	32.2		
Headache	5.4		
Epistaxis	2.0		
Bronchitis	2.0		

In the PROGRESS study (mini cohort) with 80 patients, there were no implant-related serious adverse events or adverse events, resulting in a 0% overall incidence rate of implant-related adverse events. Five adverse events (headache, left upper eyelid swelling, epistaxis, recurrent chronic sinusitis and increased sinus pressure) were judged by clinical investigators as having an indeterminate relationship to the implant. All 5 events resolved without sequelae. No patients withdrew due to an adverse event and no deaths occurred in this clinical study. Adverse events (regardless of relationship to implant) reported in ≥2% of patients in the PROGRESS study are displayed in the table below.

Adverse Events (N=80)				
Adverse Event Type	Percent of Patients Reporting			
Acute Sinusitis	15.0			
Chronic Sinusitis	11.3			
Headache	11.3			
Upper Respiratory Tract Infection	6.3			
Epistaxis	5.0			
Presyncope	5.0			
Acute Otitis Media	3.8			

Adverse Events (N=80)			
Adverse Event Type	Percent of Patients Reporting		
Asthma	3.8		
Nasal Congestion	3.8		
Eyelid Edema	2.5		
Influenza	2.5		
Nasal Polyps	2.5		
Nasopharyngitis	2.5		
Mouses	2.5		

Note: Events were tabulated through Day 90 in the PROGRESS study

### POTENTIAL ADVERSE EVENTS

Risks associated with the use of the PROPEL Sinus Implant are anticipated to be similar to those experienced by patients who undergo placement of sinus implants or packing.

The risks potentially associated with use of the PROPEL implant are:

- Premature displacement of implant or implant fragments
- Swallowing implant or implant fragments
- Pain/pressure/headache may result from the adherence of crusting to, or presence

There may be other potential adverse effects that occur which are currently unforeseen.

- Aspiration of small implant fragments (not observed in clinical trials) Foreign body response, including formation of granulation tissue
- Potential risks or side effects associated with intranasal mometasone furoate include: nasal irritation
- intranasal bleeding localized infection (bacterial, fungal or viral) in the nose or pharyna • nasal burning
- nasal dryness susceptibility to secondary infections due to bacteria, fungi or viruses
- glaucoma/elevation of intraocular pressurecataracts/change in lens opacities
- headache

Potential risks or general side effects associated with steroids:

- · alteration of the HPA axis including growth suppression immunosuppression
- · hypersensitivity reactions headache
- epistaxis coughing
- candidiasis
- glaucoma/elevation in intraocular pressure cataracts/changes in lens opacities
- arthralgia
- myalgia

Symbols Use	Symbols Used on Product Labeling						
REF:	Reference Number		Use By	2	Single Use	15°C	Room Temperature
LOT	Lot Number	$\triangle$	Read Instructions Prior to Use	STERILE R	Sterilized using Irradiation		

### Product Information Disclosure

onable care in the manufacture of this product. Intersect ENT, Inc. excludes all warranties, whether expressed or implied, by operation of law or otherwise, including but not limited to, any implied warranties of merchantability or fitness, since handling and storage of this product, as well as factors relating to the patient, diagnosis, treatment, surgical procedures and other matters beyond Intersect ENT, Inc. scontrol, directly affect this product and the results obtained from its use. Intersect ENT, Inc. shall not be liable for any incidental or consequential loss, damage or expense, directly or indirectly arising from the use of this product. Intersect ENT, Inc. neither assumes, nor authorizes any other person to assume for it, any other or additional liability or responsibility in connection with this product.

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<sup>§</sup>By independent panel at Day 30

By on site clinical investigators at Day 30

<sup>\*</sup>McNemar's test was employed to obtain the 2-sided p-value at alpha level of 0.05 for all efficacy endpoints; an exact version was used for endpoints with <20 discordant pairs; an exact binomial test was employed to obtain the 1-sided p-value at alpha level of 0.025 for the primary safety endpoint.