

Maxigesic® IV provides approximately **DOUBLE the pain relief** than that provided by acetaminophen IV or ibuprofen IV alone.\*,1



**Median opioid consumption** in the Maxigesic® IV group was approximately 55.6% less than placebo, 30% less than the active comparator groups.\*\*,1



Maxigesic® IV provided significantly greater pain relief than acetaminophen IV and ibuprofen IV at the majority of scheduled time periods over a 48 hour period.\*\*\*,1



**No compromise in safety** - postoperative safety profile equivalent with that of acetaminophen IV or ibuprofen IV, with no novel adverse events reported.1

#### **PRODUCT INFORMATION**

복지부분류	114 (해열, 진통, 소염제) / 전문의약품			
제 품 명	맥시제식 주 IV / Maxigesic Inj. IV			
성분·함량	Acetaminophen 1,000mg + Ibuprofen 300mg			
보험코드·약가	665003111 · 비급여			
성 상	무색투명한 액이 무색투명한 바이알에 든 주사제			
효능・효과	중등도 ~ 중증의 통증(특히 수술 후)의 단기간 치료			
용법 · 용량	성인 : 1바이알을 필요에 따라 매 6시간 간격으로 정맥내 주입으로 투여한다. 1일 최대 투여량은 아세트아미노펜으로서 4g을 초과하지 않는다. (15분 동안 정맥 투여)			
사용상의 주의사항	제품설명서 참조	포 장 단 위	10 바이알/상자(100mL/바이알X10)	
저 장 방 법	밀봉용기, 차광하여 실온(1~25℃) 보관, 냉장 또는 냉동하지 말 것	사 용 기 간	제조일로부터 24개월	

<sup>※</sup> 제품에 대한 보다 자세한 정보는 제품설명서를 참조하여 주시길 바랍니다.



경보제약 ■ 서울사무소 : 서울특별시 서대문구 충정로 8 종근당빌딩 4층 ■ 본사 · 공장 : 충청남도 아산시 실옥로 174 ■ 소비자상담실 : 02-365-2312 ■ 자세한 제품 정보 : www.kbpharma.co.kr

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A fixed dose acetaminophen 1000 mg and ibuprofen 300 mg in 100 mL solution for infusion



- 단일성분 투여 대비 두배 이상의 통증완화 효과를 제공합니다.\*¹
- ▶ Median opioid의 사용량을 55,6%, 30% 감소시켰습니다.\*\*
- ♥ 단일성분 대비하여 약물 효과 지속력이 우수합니다.\*\*\*¹
- ▶ 단일성분과 동일한 안전성을 나타냅니다!





ed on time-adjusted SPID4s. calculated from VAS pain intensity scores recorded up until the time of consumption of the first dose of rescue. 1 \*\* Based on the total oral Morphine Milligram Equivalent (MME) dose of all rescue medication over the full 48 hour study According to VAS pain intensity. Pain Intensity Differences and Pain Relief scores. Dosed as one vial every 6 hours over 48 hour period.

References: 1. Daniels, S.E., Playne, R., Stanescu, I., Zhang, J., Gottlieb, I.J., Atkinson, H.C. (2019). Efficacy and safety of an intravenous acetaminophen/ibuprofen fixed-dose combination after bunionectomy: A randomized, double-blind, factorial, placebo-controlled trial. Clini Therapeutics https://doi.org/10.1016/j.clinthera.2019.07.008 . Research sponsored by AFT Pharmaceutical



# Effective treatment for postoperative pain management

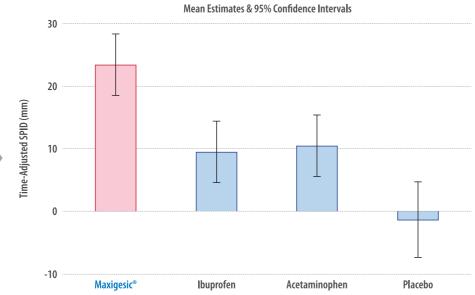
- New clinical data demonstrates that Maxigesic® IV provides significantly more analgesia than comparable doses of acetaminophen IV, ibuprofen IV and placebo.1
- All study medicines were administered to patients intravenously over 15 minutes every 6 hours over a 48 hour period, for a total
- Maxigesic® IV provided significantly superior pain relief than comparable doses of ibuprofen or acetaminophen, and placebo.¹

#### **DOUBLE THE** PAIN RELIEF<sup>1</sup>

The amount of pain relief provided by Maxigesic® IV was approximately DOUBLE that of acetaminophen IV and ibuprofen IV alone.\*,1

Maxigesic® provided the greatest amount of pain relief, far exceeding the amount required for a clinically significant difference, with all pairwise comparisons being highly significant.\*

#### Fig 1: Time-adjusted SPID48 up to first dose of rescue medication [primary endpoint]



\*Based on time-adjusted SPID48, calculated from VAS pain intensity scores recorded up until the time of consumption of the first dose of rescue

## **MEDIAN OPIOID CONSUMPTION**

Maxigesic® IV was 55.6% less than placebo, 30% less than acetaminophen, ibuprofen.1

#### Results across all efficacy end points.

Outcome	FDC	IBU	APAP	Placebo
	(n = 75)	(n = 76)	(n = 75)	(n = 50)
Time to onset of analgesia, median (95% CI), min	23.8 (9.8; -)	− (176.2; −)	- (25.0; -)	- (-; -)
Achieved, no. (%)	45 (60)	29 (38) 0.01 —	37 (49) 0.13	12 (24) <0.001
Peak pain relief, no. (%)		0.01	0.13	30.001
"No relief"	12 (16)	22 (29)	21 (28)	25 (50)
"A little relief"	16 (21)	17 (22)	19 (25)	13 (26)
"Some relief"	12 (16)	13 (17)	5 (7)	7 (14)
"A lot of relief"	13 (17)	20 (26)	19 (25)	2 (4)
"Complete relief"	22 (30)	4 (5)	11 (15)	3 (6)
P <sup>†</sup> '		0.004	0.04	< 0.001
Time to peak pain relief, median (95% CI), h	0.52 (0.25; 0.75)	0.25 (0.08; 0.50)	0.27 (0.25; 0.75)	0.08 (-; -)
P‡	_	0.002	0.21	< 0.001
Used rescue medication, no. (%)	56 (75)	70 (92)	70 (93)	48 (99)
Odds ratio (95% CI)	· · · -	4.13 (1.52; 11.20)	5.49 (1.89; 15.96)	9.03 (1.97; 41.47
P§	-	0.005	0.002	0.005
Time to first rescue medication, median (95% CI), h	3.32 (2.53; 4.92)	1.68 (1.38; 2.20)	2.08 (1.62; 3.00)	1.18 (1.12; 2.12)
P‡	_	< 0.001	0.006	< 0.001
Rescue medication used in 24 h, median (95% CI), MME <sup>II</sup>	22.5 (15; 30)	30.0 (30; 42)	42.0 (30; 45)	45.0 (45; 60)
P†	-	0.01	0.003	< 0.001
Rescue medication used in 48 h, median (95% CI), MME	<b>30.3</b> (15; 42)	<b>43.5</b> (30; 60)	<b>45.0</b> (30; 60)	<b>67.5</b> (45; 90)
Pİ	_	0.008	0.004	< 0.001

APAP = acetaminophen; FDC = fixed-dose combination; IBU = ibuprofen; MME = morphine milligram equivalents. † Mann-Whitney U test. ‡ Kplan-Meier test. # Percentage of patients experiencing ≥50% reduction in visual analog scale score from baseline, before the use of rescue medication. \$ Logistic regression with baseline pain intensity is

References: 1. Daniels, S.E, Playne, R., Stanescu, L., Zhang, J., Gottlieb, I.J., Atkinson, H.C. (2019). Efficacy and safety of an intravenous acetaminophen/ibuprofen fixed-dose combination after bunionectomy: A randomized, double-blind, factorial, placebo-controlled trial. Clinical Therapeutics https://doi.org/10.1016/j.dinthera.2019.07.008. Research sponsored by AFT Pharmaceuticals. 2. Merry AF, Gibbs RD, Edwards J, Ting GS, Frampton C, Davies E, Anderson BJ. Br J Anaesth. 2010 Jan;104(1):80-8. doi. 3. Hung KKC, Graham CA, Lo RSL, Leung YK, Leung LY, Man SY, et al. (2018) Oral. 4. Wells LK, Drum M, Nusstein J, Reader A, Beck M. Dec;37(12):1608-12. doi: 10.1016. 5. Dahl V, Dybvik T, Steen T, Aune AK, Rosenlund EK, Raeder JC. Eur J Anaesthesiol. 2004 Jun;21(6):471-5. doi:



## Safety and Tolerability of **Fixed-Dose Combination**

- A total of 493 adverse events (AEs) were reported among 194 participants during the double-blind treatment period.<sup>1</sup>
- All AEs, nonserious and serious, occurring during the 48-hour treatment period were included in the safety analysis.<sup>1</sup>
- The safety profile of the FDC was comparable to that of intravenous ibuprofen or acetaminophen alone.1

## **NO COMPROMISE** IN SAFETY<sup>1</sup>

There was no difference in the rate of nausea or dizziness between the Maxigesic® group and the comparators.1 Table. Number and frequency of adverse events (AEs). Values are given as no. (%) of patients unless otherwise indicated.

Variab <b>l</b> e	FDC	IBU	APAP	Placebo	
	(n = 75)	(n = 76)	(n = 75)	(n = 50)	
No. of AEs reported	142	131	112	108	
Discontinuations due to AEs	0	2 (3)	1 (1)	0	
Participants with ≥1 AE	52 (69)	58 (76)	45 (60)	39 (78)	
Participants with ≥1 drug-related AE*	34 (45)	35 (46)	22 (29)	23 (46)	
Participants with ≥1 severe AE	3 (4)	4 (5)	6 (8)	1 (2)	
AEs affecting ≥5% of participants					
Nausea	22 (29)	26 (34)	25 (33)	16 (32)	
Dizziness	13 (17)	7 (9)	7 (9)	8 (16)	
Vomiting	16 (21)	5 (7)	11 (15)	1 (2)	
Headache	4 (5)	5 (7)	5 (7)	10 (20)	
Somnolence	5 (7)	6 (8)	6 (8)	3 (6)	
Infusion site pain	10 (13)	7 (9)	0	1 (2)	
Constipation	4 (5)	4 (5)	4 (5)	4 (8)	
Infusion site extravasation	2 (3)	5 (7)	2 (3)	7 (14)	
Pruritus	5 (7)	4 (5)	3 (4)	2 (4)	

APAP = acetaminophen: FDC = fixed-dose combination: IBU = ibuprofen

- Better pain relief than monotherapy.<sup>2</sup>
- Compared to the high content (400/600/800mg) of ibuprofen, the analgesic effect is significant, but the side effects are comparable.3

# **SYNERGY EFFECT** : OPTIMAL **COMBINATION**

The importance of dose -ration: **Optimal combination** acetaminophen and ibuprofen

Study	Dose (AAP/IBU)	Ratio (AAP/IBU)	Result
Merry et al. 2010 <sup>2</sup>	1,000/300	3.3:1	Synergy effect
Daniels et al. 2018	975/292.5	3.3:1	Synergy effect
Hung et al. 2018 <sup>3</sup>	1,000/400	2.5:1	No Synergy effect
Wells et al. 2011⁴	1,000/600	1.67 : 1	Increasing AE
Dahl et al. 2004 <sup>5</sup>	1,000/800	1.25 : 1	Increasing AE

#### **MAXIGESIC IP**

등재특허 No.	특허	주요사항	요약	비고
10-1370712	조성물	Ratio (3.3:1)	AAP:IBU=3.3:1 비율의 synergetic effect	등록특허

<sup>\*\*</sup>Based on the total oral Morphine Milligram Equivalent (MME) dose of all rescue medication consumed over the full 48 hour study period.

<sup>\*</sup> Classified as possibly, probably, or definitely related to the study drug. This does not include AEs classified as nonrelated or unlikely to be related