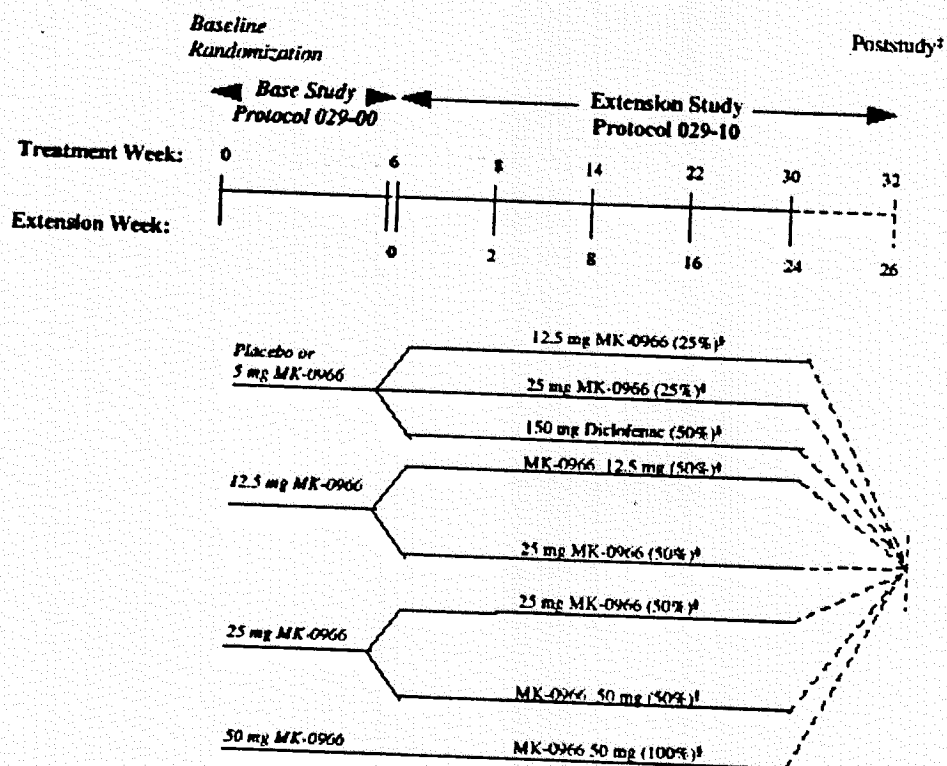


Appendix 7.2. Comparison of studies 010 and 029.

	010	029
Design	R, DB, PC	R, DB, PC
Doses	Placebo, 25mg, 125mg,	Placebo, 5mg, 12.5mg, 25mg, 50mg
Patients randomized per arm	72 73 74	145 149 144 137 97
Formulation	Formulation A (25% formulation)	Three different formulations (5 %, 7.5% and 25% formulation)
<u>Baseline Demographics</u>		
Age, gender, race, weight, years of disease:	Similar for both studies	
ARA functional class: I, II, III	22.8%, 66.7%, 10.5%	15.8%, 66.7%, 17.6%
Efficacy endpoints:	Similar for both studies	
Affected joint	Knee only	Hip and knee (except the 50 mg group that included knee only)
<u>Comparison of results</u>		
<u>Efficacy outcomes:</u>	<u>25mg - 125mg</u>	<u>25mg - 50mg comparison</u>
Pt assessment of Arthritic Pain (VAS)	No Different	Not measured
WOMAC Pain Subscale (VAS)	" "	50mg SS Different from 25
WOMAC pain walking on flat surface	" "	" "
Pt Global of Response to Therapy	" "	" "
Investigator Global or Disease Status	" "	" "
WOMAC Physical Function Subscale	" "	" "
WOMAC Stiffness Subscale	" "	" "
WOMAC Total Score Average	" "	" "
Patient Global of Disease Status	" "	no SS different
Discontinuation due to Lack of Efficacy	5.6% 1.4%	4.4% 3.1% (no SS diff)
Safety: Disc due to Adverse Events	5.6% 15.1%	5.1% 5.2%

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Appendix 7.3. Study 029-10 design.



Appendix 7.4. 029-10 randomization and accounting

Base:	LO Placebo or 5 mg MK-0966			HI 12.5 mg or 25 mg or 50 mg MK-0966		
	MK-0966		Diclofenac	MK-0966		
	12.5 mg	25 mg	150 mg	12.5 mg	25 mg	50 mg
ENTERED THE EXTENSION:	54	47	92	50	101	123
Male (age range) [†]	22 (46-76)	13 (46-74)	28 (44-78)	14 (50-73)	23 (46-92)	35 (40-80)
Female (age range) [†]	32 (40-75)	34 (39-83)	64 (40-81)	36 (39-81)	78 (44-80)	88 (39-83)
COMPLETED:	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)
DISCONTINUED:	40 (74.1)	35 (74.5)	69 (75.0)	38 (76.0)	69 (68.3)	89 (72.4)
Clinical adverse experiences	14 (25.9)	12 (25.5)	23 (25.0)	12 (24.0)	32 (31.7)	34 (27.6)
Laboratory adverse experiences	4 (7.4)	5 (10.6)	7 (7.6)	4 (8.0)	6 (5.9)	15 (12.2)
Deviation from protocol	0 (0.0)	0 (0.0)	7 (7.6)	0 (0.0)	0 (0.0)	1 (0.8)
Patient withdrew consent	4 (7.4)	0 (0.0)	1 (1.1)	0 (0.0)	2 (2.0)	1 (0.8)
Lost to follow up	0 (0.0)	0 (0.0)	1 (1.1)	3 (6.0)	6 (5.9)	6 (4.9)
Lack of efficacy	0 (0.0)	1 (2.1)	1 (1.1)	0 (0.0)	1 (1.0)	0 (0.0)
Other reasons [‡]	4 (7.4)	3 (6.4)	3 (3.3)	5 (10.0)	17 (16.8)	9 (7.3)
	2 (3.7)	3 (6.4)	3 (3.3)	0 (0.0)	0 (0.0)	2 (1.6)

Appendix 7.5. Study 029 changes in primary endpoints.

4.2.1: Pain Walking on a Flat Surface (WOMAC).
 Mean Change From Baseline at Screening, Weeks 2, 4, 6, 8, 14, 22, and 30.
 (Intention-to-Treat Approach) (Cont.)

Treatment (Base/Extension)	N	Baseline Mean	On-Rx Mean	On-Rx Mean Change	SD Change	LS Mean Change	95% CI for Mean Change [*]
Week 22							
Placebo/12.5 mg	23	75.57	32.22	-43.35	29.85	-42.45	(-53.80,-31.10)
Placebo/25 mg	20	72.95	27.05	-45.90	21.91	-47.41	(-59.36,-35.46)
Placebo/Diclofenac	47	72.11	32.19	-39.91	28.13	-42.37	(-51.13,-33.62)
5 mg/12.5 mg	31	77.68	34.84	-42.84	26.37	-41.56	(-51.90,-31.22)
5 mg/25 mg	27	78.33	31.04	-47.30	27.26	-46.08	(-56.51,-35.66)
5 mg/Diclofenac	43	72.28	29.16	-43.12	29.68	-46.51	(-55.29,-37.73)
12.5 mg/12.5 mg	48	69.33	35.58	-33.75	29.66	-38.01	(-46.37,-29.65)
12.5 mg/25 mg	50	70.80	40.84	-29.96	25.75	-32.30	(-40.66,-23.93)
25 mg/25 mg	51	75.63	38.51	-37.12	25.90	-36.99	(-45.14,-28.84)
25 mg/50 mg	50	76.20	43.12	-33.08	27.55	-33.46	(-41.90,-25.03)
50 mg/50 mg	73	74.04	29.42	-44.62	27.98	-42.90	(-50.36,-35.44)
Week 30							
Placebo/12.5 mg	23	75.57	37.70	-37.87	31.88	-35.19	(-47.02,-23.36)
Placebo/25 mg	20	72.95	31.50	-41.45	25.98	-41.73	(-54.19,-29.27)
Placebo/Diclofenac	47	72.11	34.74	-37.36	31.90	-37.71	(-46.83,-28.58)
5 mg/12.5 mg	31	77.68	35.84	-41.84	28.25	-38.59	(-49.37,-27.81)
5 mg/25 mg	27	78.33	33.37	-44.96	24.38	-41.95	(-52.81,-31.08)
5 mg/Diclofenac	43	72.28	28.28	-44.00	29.37	-45.87	(-55.02,-36.71)
12.5 mg/12.5 mg	48	69.33	37.46	-31.88	30.49	-34.74	(-43.45,-26.02)
12.5 mg/25 mg	50	70.80	41.42	-29.38	26.79	-29.81	(-38.54,-21.09)
25 mg/25 mg	51	75.63	38.20	-37.43	27.58	-35.60	(-44.10,-27.10)
25 mg/50 mg	50	76.20	42.04	-34.16	24.76	-32.70	(-41.50,-23.91)
50 mg/50 mg	73	74.04	32.70	-41.34	30.71	-37.33	(-45.11,-29.56)

* Derived from LS mean.

4.2.2: Patient Global Assessment of Disease Status (VAS).
 Mean Change From Baseline at Screening, Weeks 2, 4, 6, 8, 14, 22, and 30.
 (Intention-to-Treat Approach) (Cont.)

Treatment (Base/Extension)	N	Baseline Mean	On-Rx Mean	On-Rx Mean Change	SD Change	LS Mean Change	95% CI for Mean Change [*]
Week 22							
Placebo/12.5 mg	23	65.61	33.39	-32.22	31.97	-34.88	(-45.86,-23.90)
Placebo/25 mg	20	64.50	26.85	-37.65	19.41	-42.58	(-54.15,-31.02)
Placebo/Diclofenac	47	64.96	30.45	-34.51	31.25	-39.12	(-47.60,-30.65)
5 mg/12.5 mg	31	73.23	30.26	-42.97	29.12	-40.82	(-50.83,-30.82)
5 mg/25 mg	27	72.89	32.22	-40.67	27.65	-39.46	(-49.53,-29.39)
5 mg/Diclofenac	43	71.40	29.33	-42.07	29.20	-42.77	(-51.27,-34.28)
12.5 mg/12.5 mg	48	61.96	38.88	-23.08	30.02	-30.20	(-38.29,-22.11)
12.5 mg/25 mg	49	69.27	39.76	-29.51	26.70	-29.53	(-37.73,-21.34)
25 mg/25 mg	51	68.61	37.53	-31.08	29.76	-32.42	(-40.31,-24.54)
25 mg/50 mg	49	71.86	41.00	-30.86	25.83	-30.54	(-38.74,-22.33)
50 mg/50 mg	73	68.58	31.55	-37.03	29.56	-35.92	(-43.14,-28.70)
Week 30							
Placebo/12.5 mg	23	65.61	36.13	-29.48	31.64	-30.07	(-41.30,-18.85)
Placebo/25 mg	20	64.50	35.05	-29.45	21.02	-32.40	(-44.23,-20.58)
Placebo/Diclofenac	47	64.96	31.47	-33.49	30.84	-35.32	(-43.99,-26.66)
5 mg/12.5 mg	31	73.23	32.48	-40.74	26.83	-35.96	(-46.19,-25.73)
5 mg/25 mg	27	72.89	34.30	-38.59	26.70	-35.65	(-45.95,-25.35)
5 mg/Diclofenac	43	71.40	31.02	-40.37	31.01	-38.34	(-47.03,-29.65)
12.5 mg/12.5 mg	48	61.96	38.96	-23.00	30.42	-27.19	(-35.47,-18.92)
12.5 mg/25 mg	49	69.27	40.86	-28.41	26.44	-25.83	(-34.21,-17.46)
25 mg/25 mg	51	68.61	38.43	-30.18	30.96	-29.29	(-37.35,-21.23)
25 mg/50 mg	49	71.86	42.12	-29.73	24.89	-26.96	(-35.35,-18.57)
50 mg/50 mg	73	68.58	32.16	-36.41	29.46	-32.74	(-40.13,-25.36)

* Derived from LS mean.

A.7.5 (cont).

4.2.3: Investigator Global Assessment of Disease Status (Likert),
 Mean Change From Baseline at Screening, Weeks 2, 4, 6, 8, 14, 22, and 30,
 (Intention-to-Treat Approach) (Cont.)

Treatment (Base/Extension)	N	Baseline Mean	On-Rx Mean	On-Rx Mean Change	SD Change	LS Mean Change	95% CI for Mean Change ¹
Week 22							
Placebo/12.5 mg	23	3.04	1.00	-2.04	1.40	-2.01	(-2.41, -1.61)
Placebo/25 mg	20	2.75	1.10	-1.65	0.88	-1.91	(-2.33, -1.49)
Placebo/Diclofenac	46	2.85	1.09	-1.76	1.18	-1.94	(-2.25, -1.63)
5 mg/12.5 mg	31	2.97	1.03	-1.94	0.96	-1.95	(-2.31, -1.58)
5 mg/25 mg	27	2.93	1.33	-1.59	1.28	-1.71	(-2.08, -1.34)
5 mg/Diclofenac	43	2.84	1.07	-1.77	1.23	-1.97	(-2.28, -1.66)
12.5 mg/12.5 mg	48	2.92	1.27	-1.65	1.19	-1.74	(-2.03, -1.45)
12.5 mg/25 mg	50	2.94	1.44	-1.50	0.97	-1.53	(-1.82, -1.23)
25 mg/25 mg	51	2.92	1.24	-1.69	0.99	-1.76	(-2.05, -1.48)
25 mg/50 mg	49	2.92	1.51	-1.41	1.10	-1.49	(-1.79, -1.19)
50 mg/50 mg	72	2.86	1.08	-1.78	1.06	-1.81	(-2.07, -1.54)
Week 30							
Placebo/12.5 mg	23	3.04	1.04	-2.00	1.21	-1.86	(-2.28, -1.45)
Placebo/25 mg	20	2.75	1.10	-1.65	0.88	-1.83	(-2.26, -1.39)
Placebo/Diclofenac	47	2.87	1.04	-1.83	1.26	-1.86	(-2.18, -1.54)
5 mg/12.5 mg	31	2.97	1.03	-1.94	1.00	-1.85	(-2.23, -1.48)
5 mg/25 mg	27	2.93	1.37	-1.56	1.15	-1.57	(-1.95, -1.19)
5 mg/Diclofenac	43	2.84	1.05	-1.79	1.04	-1.91	(-2.23, -1.58)
12.5 mg/12.5 mg	47	2.89	1.34	-1.55	1.19	-1.59	(-1.89, -1.28)
12.5 mg/25 mg	50	2.94	1.42	-1.52	1.01	-1.45	(-1.75, -1.14)
25 mg/25 mg	51	2.92	1.37	-1.55	1.17	-1.54	(-1.84, -1.24)
25 mg/50 mg	49	2.92	1.51	-1.41	1.08	-1.36	(-1.67, -1.05)
50 mg/50 mg	72	2.86	1.01	-1.85	1.12	-1.81	(-2.08, -1.53)

¹ Derived from LS mean.

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Appendix 8.1. Study 033.

Patient Accounting

	Placebo	MK-0966		Ibuprofen	Total
		12.5 mg	25 mg	2400 mg	
ENTERED:	69	219	227	221	736
Male (age range) [†]	13 (42 to 70)	52 (39 to 91)	65 (39 to 84)	58 (43 to 82)	188 (39 to 91)
Female (age range) [†]	56 (40 to 87)	167 (39 to 86)	162 (39 to 85)	163 (41 to 81)	548 (39 to 87)
	n (%)	n (%)	n (%)	n (%)	n (%)
COMPLETED:	50 (72.5)	186 (84.9)	200 (88.1)	189 (85.5)	625 (84.9)
DISCONTINUED:	19 (27.5) [*]	33 (15.1)	27 (11.9)	32 (14.5)	111 (15.1)
Clinical adverse experience	4 (5.8)	12 (5.5)	15 (6.6)	8 (3.6)	39 (5.3)
Laboratory adverse experience	0 (0.0)	0 (0.0)	0 (0.0)	1 (0.5)	1 (0.1)
Deviation from protocol	0 (0.0)	1 (0.5)	1 (0.4)	0 (0.0)	2 (0.3)
Patient withdrew consent	2 (2.9)	1 (0.5)	2 (0.9)	2 (0.9)	7 (1.0)
Lost to follow up	0 (0.0)	1 (0.5)	0 (0.0)	0 (0.0)	1 (0.1)
Lack of efficacy	13 (18.8) [*]	17 (7.8)	9 (4.0)	19 (8.6)	58 (7.9)
Other reasons [‡]	0 (0.0)	1 (0.5)	0 (0.0)	2 (0.9)	3 (0.4)

* p<0.05 vs. MK-0966 and ibuprofen.
† Birth date masking to 12/31/XX in database, where XX is the true year of birth, may cause patient's age to appear 1 year younger than the actual age, depending on the date of randomization. All patients were ≥39 years of age when randomized.
‡ Includes reasons other than those listed.

Data Source: [4.23; 4.33]

Appendix A.8.2

Analysis of End Point: Pain Walking on a Flat Surface (WOMAC)[†]
Mean Change From Baseline (Flare/Randomization Visit)
Averaged Over 6-Week Treatment Period
(Intention-to-Treat Approach)

Treatment Group	N	Treatment			LSMean [‡] Change (mm)	95% CI for LSMean Change
		Baseline Mean (mm)	Period Mean (mm)	Mean Change (mm)		
Placebo	69	73.51	55.68	-17.82	26.11	-17.21 (-22.83, -11.59)
12.5 mg	218	73.30	44.03	-29.28	25.21	-29.62 (-32.89, -26.34)
25 mg	222	76.45	41.28	-35.18	25.25	-33.71 (-36.97, -30.45)
Ibuprofen	218	75.62	43.86	-31.76	22.52	-30.66 (-33.93, -27.39)
Comparisons Between Active-Treatment Groups		LSMean (mm)		95% CI	p-Value	Posterior Probability [§]
<u>With Active Comparator</u>						
25 mg vs. Ibuprofen		-3.05		(-7.28, 1.18)	0.158	>0.999
12.5 mg vs. Ibuprofen		1.04		(-3.23, 5.31)	0.632	>0.999
<u>Between MK-0966 Doses</u>						
25 mg vs. 12.5 mg		-4.09		(-8.36, 0.18)	0.060	0.997
<u>With Placebo</u>						
12.5 mg vs. Placebo		-12.40		(-18.56, -6.24)	<0.001	
25 mg vs. Placebo		-16.49		(-22.68, -10.31)	<0.001	
Ibuprofen vs. Placebo		-13.45		(-19.64, -7.26)	<0.001	
Effect:					p-Value	Pooled SD
History of Ulcer or Upper GI Bleeding					0.762	22.57
Study Center					<0.001	
Baseline Covariate					<0.001	
Treatment					<0.001	

NDA 21-042

21-042-01580-mm VAS.

M.L. Villalba, M.O.

5/17/99

† Least square mean.

§ Posterior probability that the true mean difference is within the predefined comparability bounds

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Appendix 8.3. Study 033

Analysis of End Point: Patient Global Assessment of Response to
Therapy (Likert¹) Averaged Over 6-Week Treatment Period
(Intention-to-Treat Approach)

Treatment Group	N	Treatment Period Mean	SD	LSMean ²	95% CI for LSMean
Placebo	69	-1.38	1.25	-1.37	(-1.62, -1.12)
12.5 mg	218	-2.19	0.99	-2.24	(-2.38, -2.09)
25 mg	223	-2.34	0.99	-2.38	(-2.52, -2.23)
Ibuprofen	218	-2.21	1.08	-2.24	(-2.39, -2.10)
Comparisons Between Active-Treatment Groups		LSMean	95% CI	p-Value	Posterior Probability ³
<u>With Active Comparator</u>					
25 mg vs. Ibuprofen		-0.13	(-0.32, 0.05)	0.163	>0.999
12.5 mg vs. Ibuprofen		0.01	(-0.18, 0.20)	0.955	>0.999
<u>Between MK-0966 Doses</u>					
25 mg vs. 12.5 mg		-0.14	(-0.33, 0.05)	0.149	>0.999
<u>With Placebo</u>					
12.5 mg vs. Placebo		-0.87	(-1.14, -0.59)	<0.001	
25 mg vs. Placebo		-1.01	(-1.28, -0.73)	<0.001	
Ibuprofen vs. Placebo		-0.87	(-1.15, -0.60)	<0.001	
Effect:				p-Value	Pooled SD
History of Ulcer or Upper GI Bleeding				0.918	1.01
Study Center				<0.001	
Baseline Covariate				<0.001	
Treatment				<0.001	

Analysis of End Point: Investigator Global Assessment of Disease Status (Likert¹)
Mean Change From Baseline (Flare/Randomization Visit)
Averaged Over 6-Week Treatment Period
(Intention-to-Treat Approach)

Treatment Group	N	Baseline Mean	Treatment Period Mean	Mean Change	SD of Change	LSMean ² Change	95% CI for LSMean Change
Placebo	68	2.87	2.10	-0.77	1.01	-0.80	(-1.00, -0.60)
12.5 mg	217	2.82	1.52	-1.30	0.98	-1.37	(-1.49, -1.26)
25 mg	225	2.90	1.45	-1.46	0.91	-1.46	(-1.58, -1.34)
Ibuprofen	219	2.89	1.58	-1.31	0.96	-1.33	(-1.45, -1.21)
Comparisons Between Active-Treatment Groups		LSMean	95% CI	p-Value	Posterior Probability ³		
<u>With Active Comparator</u>							
25 mg vs. Ibuprofen		-0.13	(-0.28, 0.02)	0.085	>0.999		
12.5 mg vs. Ibuprofen		-0.05	(-0.20, 0.11)	0.562	>0.999		
<u>Between MK-0966 Doses</u>							
25 mg vs. 12.5 mg		-0.09	(-0.24, 0.06)	0.259	>0.999		
<u>With Placebo</u>							
12.5 mg vs. Placebo		-0.58	(-0.80, -0.35)	<0.001			
25 mg vs. Placebo		-0.66	(-0.89, -0.44)	<0.001			
Ibuprofen vs. Placebo		-0.53	(-0.75, -0.31)	<0.001			
Effect:				p-Value	Pooled SD		
History of Ulcer or Upper GI Bleeding				0.926	0.81		
Study Center				<0.001			
Baseline Covariate				<0.001			
Treatment				<0.001			
¹ 0- to 4-point Likert.							
² Least square mean.							
³ Posterior probability that the true mean difference is within the predefined comparability bounds (± 0.5 Likert scale; ± 10 mm VAS).							

A. 8.4. Study 033. Secondary and other endpoints

End Point	Pairwise Treatment Difference in LS Mean (95% CI)		
	12.5 mg—Placebo	25 mg—Placebo	Ibuprofen—Placebo
Key Secondary End Points			
Physical Function Subscale (WOMAC) (0- to 100-mm VAS)	-11.36 (-16.87, -5.85)	-14.61 (-20.13, -9.10)	-11.52 (-17.05, -5.99)
Pain Subscale (WOMAC) (0- to 100-mm VAS)	-12.05 (-17.85, -6.24)	-15.57 (-21.39, -9.75)	-13.00 (-18.83, -7.17)
Stiffness Subscale (WOMAC) (0- to 100-mm VAS)	-13.32 (-19.24, -7.39)	-15.33 (-21.26, -9.40)	-13.08 (-19.02, -7.14)
Patient Global Assessment of Disease Status (0- to 100-mm VAS)	-14.57 (-20.57, -8.57)	-18.25 (-24.26, -12.24)	-15.29 (-21.31, -9.26)
Discontinuation Due to Lack of Efficacy	Difference in Percentage Points (95% CI)		
	-11.08% (-20.96%, -1.19%)	-14.88% (-24.45%, -5.31%)	-10.24% (-20.18%, -0.30%)
Other End Points			
Investigator Global Assessment of Response to Therapy (0- to 4-point Likert)	-0.76 (-1.03, -0.50)	-0.91 (-1.18, -0.64)	-0.80 (-1.07, -0.53)
Study Joint Tenderness (0- to 3-point Likert)	-0.25 (-0.41, -0.08)	-0.34 (-0.50, -0.17)	-0.32 (-0.49, -0.16)
Acetaminophen Use (for Rescue) (tabs/day)	-0.48 (-0.75, -0.21)	-0.47 (-0.74, -0.20)	-0.59 (-0.86, -0.32)
Total Score Average (WOMAC) (0- to 100-mm VAS)	-12.07 (-17.52, -6.62)	-15.28 (-20.75, -9.82)	-12.30 (-17.77, -6.82)
Subscale Average (WOMAC) (0- to 100-mm VAS)	-12.13 (-17.67, -6.58)	-15.19 (-20.75, -9.63)	-12.42 (-17.98, -6.85)
Study Joint Swelling at Week 6 (0=Absent, 1=Present)	Difference in Percentage Points (95% CI)		
	-11.67% (-28.83%, 5.50%)	-7.67% (-24.92%, 9.58%)	-15.55% (-32.65%, 1.55%)

Data Source: 14.341

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Appendix 9.1. Study 040.

Patient Accounting

	Placebo	MK-0966		Ibuprofen 2400 mg	Total
		12.5 mg	25 mg		
ENTERED:	74	244	242	249	809
Male (age range) [*]	11 (44 to 76)	46 (45 to 78)	51 (40 to 79)	54 (46 to 84)	162 (40 to 84)
Female (age range) [*]	63 (44 to 83)	198 (40 to 86)	191 (40 to 85)	195 (41 to 90)	647 (40 to 90)
	n (%)	n (%)	n (%)	n (%)	n (%)
COMPLETED:	62 (83.8)	217 (88.9)	217 (89.7)	213 (85.5)	709 (87.6)
DISCONTINUED:	12 (16.2)	27 (11.1)	25 (10.3)	36 (14.5)	100 (12.4)
Clinical adverse experience	1 (1.4)	10 (4.1)	9 (3.7)**	21 (8.4)*	41 (5.1)
Laboratory adverse experience	0 (0.0)	2 (0.8)	0 (0.0)	0 (0.0)	2 (0.2)
Deviation from protocol	0 (0.0)	1 (0.4)	1 (0.4)	1 (0.4)	3 (0.4)
Patient withdrew consent	1 (1.4)	4 (1.6)	5 (2.1)	4 (1.6)	14 (1.7)
Lost to follow-up	0 (0.0)	1 (0.4)	2 (0.8)	1 (0.4)	4 (0.5)
Lack of efficacy	9 (12.2)	8 (3.3)*	7 (2.9)*	9 (3.6)*	33 (4.1)
Patient discontinued for other reasons	1 (1.4)	1 (0.4)	1 (0.4)	0 (0.0)	3 (0.4)
<p>* p < 0.05 vs. placebo. ** p < 0.05 vs. ibuprofen. [*] Birth date masking to 12/31/XX in database, where XX is the true year of birth, may cause patient's age to appear 1 year younger than the actual age, depending on the date of randomization. All patients were ≥40 years of age when randomized.</p>					

Data Source: 14 281

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A.9.2

**Analysis of Primary End Point: Pain Walking on a Flat Surface (WOMAC)
Mean Change From Baseline (Flare/Randomization Visit)
Averaged Over 6-Week Treatment Period
(Intention-to-Treat Approach)**

Treatment Group	N	Treatment		Mean Change	SD of Change	LSMean [†] Change	95% CI for LSMean [†] Change
		Baseline Mean	Period Mean				
Placebo	74	71.49	53.39	-18.10	23.42	-18.92	(-23.72, -14.12)
12.5 mg	243	72.66	38.37	-34.29	20.51	-34.32	(-37.03, -31.60)
25 mg	237	72.37	37.30	-35.07	20.59	-35.07	(-37.82, -32.33)
Ibuprofen	247	72.57	39.05	-33.52	22.95	-33.55	(-36.26, -30.84)
Comparisons Between Treatment Groups			Difference in LSMean	95% CI for Difference	p-Value	Posterior Probability [‡]	
<u>With Active Comparator</u>							
25 mg vs. Ibuprofen			-1.52	(-5.14, 2.09)	0.408	>0.999	
12.5 mg vs. Ibuprofen			-0.77	(-4.37, 2.83)	0.675	>0.999	
<u>Between MK-0966 Doses</u>							
25 mg vs. 12.5 mg			-0.76	(-4.39, 2.88)	0.683	>0.999	
<u>With Placebo</u>							
12.5 mg vs. Placebo			-15.40	(-20.72, -10.08)	<0.001		
25 mg vs. Placebo			-16.15	(-21.48, -10.83)	<0.001		
Ibuprofen vs. Placebo			-14.63	(-19.92, -9.33)	<0.001		
Effect:				p-Value	Pooled SD		
History of Ulcer or Upper GI Bleeding				0.298	20.25		
Study Center				<0.001			
Baseline Covariate				<0.001			
Treatment				<0.001			
[†] Least squares mean.							
[‡] Posterior probability that the true mean difference is within the predefined clinical comparability bounds (± 0.5 Likert scale; ± 10 mm VAS).							

Data Source: [4.29]

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A.9.3. Study 040. Efficacy Endpoints.

Analysis of Primary End Point: Patient Global
Assessment of Response to Therapy (Likert)
Averaged Over 6-Week Treatment Period
(Intention-to-Treat Approach)

Treatment Group	N	Treatment Period Mean	SD	LSMean [†]	95% CI for LSMean [†]
Placebo	74	-1.50	0.97	-1.56	(-1.77, -1.36)
12.5 mg	242	-2.23	0.94	-2.28	(-2.39, -2.16)
25 mg	235	-2.41	0.77	-2.44	(-2.56, -2.33)
Ibuprofen	245	-2.17	0.94	-2.22	(-2.34, -2.11)
Comparisons Between Treatment Groups		Difference in LSMean	95% CI for Difference	p-Value	Posterior Probability [‡]
<u>With Active Comparator</u>					
25 mg vs. Ibuprofen		-0.22	(-0.38, -0.07)	0.005	<0.999
12.5 mg vs. Ibuprofen		-0.06	(-0.21, 0.10)	0.471	>0.999
<u>Between MK-0966 Doses</u>					
25 mg vs. 12.5 mg		-0.17	(-0.32, -0.01)	0.036	>0.999
<u>With Placebo</u>					
12.5 mg vs. Placebo		-0.72	(-0.94, -0.49)	<0.001	
25 mg vs. Placebo		-0.88	(-1.11, -0.65)	<0.001	
Ibuprofen vs. Placebo		-0.66	(-0.88, -0.43)	<0.001	
Effect:				p-Value	Pooled SD
History of Ulcer or Upper GI Bleeding				0.736	0.86
Study Center				<0.001	
Baseline Covariate				<0.001	
Treatment				<0.001	

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A.9.4. Study 040

TABLE 20

Analysis of Primary End Point: Investigator Global Assessment of Disease Status
(Likert) Mean Change From Baseline (Flare/Randomization Visit)
Averaged Over 6-Week Treatment Period
(Intention-to-Treat Approach)

Treatment Group	N	Baseline Mean	Treatment Period Mean	Mean Change	SD of Change	LSMean [†] Change	95% CI for LSMean [†] Change
Placebo	74	2.99	2.02	-0.96	0.74	-1.00	(-1.17, -0.83)
12.5 mg	243	3.00	1.55	-1.45	0.87	-1.47	(-1.56, -1.37)
25 mg	238	2.97	1.41	-1.55	0.79	-1.59	(-1.68, -1.49)
Ibuprofen	247	3.01	1.62	-1.40	0.88	-1.40	(-1.50, -1.31)
Comparisons Between Treatment Groups			Difference in LSMean	95% CI for Difference	p-Value	Posterior Probability [‡]	
<u>With Active Comparator</u>							
25 mg vs. Ibuprofen			-0.18	(-0.31, -0.05)	0.005	>0.999	
12.5 mg vs. Ibuprofen			-0.06	(-0.19, 0.06)	0.320	>0.999	
<u>Between MK-0966 Doses</u>							
25 mg vs. 12.5 mg			-0.12	(-0.25, 0.01)	0.072	>0.999	
<u>With Placebo</u>							
12.5 mg vs. Placebo			-0.46	(-0.65, -0.28)	<0.001		
25 mg vs. Placebo			-0.58	(-0.77, -0.39)	<0.001		
Ibuprofen vs. Placebo			-0.40	(-0.59, -0.21)	<0.001		
Effect:					p-Value	Pooled SD	
History of Ulcer or Upper GI Bleeding					0.740	0.72	
Study Center					<0.001		
Baseline Covariate					<0.001		
Treatment					<0.001		
[†] Least squares mean.							
[‡] Posterior probability that the true mean difference is within the predefined clinical comparability bounds (± 0.5 Likert scale; ± 10 mm VAS).							

Data Source: [4.29]

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Appendix 10. O34 randomization and accounting

	MK-0966		Diclofenac 150 mg	Total
	12.5 mg	25 mg		
Entered:	231	232	230	693
Male (age range)	44 (47 to 82)	52 (39 to 79)	42 (38 to 81)	138 (38 to 82)
Female (age range)	187 (39 to 85)	180 (43 to 79)	188 (40 to 85)	555 (39 to 85)
	n (%)	n (%)	n (%)	n (%)
CONTINUING TRIAL:	169 (73.1)	183 (78.9)	174 (75.6)	526 (75.9)
DISCONTINUED:	62 (26.8)	49 (21.1)	56 (24.3)	167 (24.1)
Clinical adverse experience	18 (7.7)*	14 (6.0)*	22 (9.6)	54 (7.8)
Laboratory adverse experience	0 (0)*	1 (0.4)*	10 (4.3)	11 (1.6)
Deviation from protocol	8 (3.4)	6 (2.6)	2 (0.9)	16 (2.3)
Patient withdrew consent	8 (3.4)	3 (1.3)	4 (1.7)	15 (2.2)
Lost to follow-up	2 (0.9)	2 (0.9)	2 (0.9)	6 (0.9)
Lack of efficacy	22 (9.5)	19 (8.2)	13 (5.6)	54 (7.8)
Other reasons [†]	4 (1.7)	4 (1.7)	3 (1.3)	11 (1.6)

^{*} p<0.05 vs. diclofenac.
[†] Includes reasons other than those listed.
 Birth date masking to 12/31/XX in database, where XX is the true year of birth, may cause patient's age to appear 1 year younger than the actual age, depending on the date of randomization. All patients were ≥35 years of age when randomized.

Data Source: [4.16; 4.34]

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Appendix 10.1. Studies 034 and 035 primary endpoint results

Table D-39

Pairwise Difference in LS Mean for the Primary End Points
Mean Change From Baseline (Randomization Visit)
Averaged Over 12-Week Treatment Period
(Protocols 034 and 035)

End Point	Difference in LS Mean (95% CI)	
	25 mg Minus Diclofenac	12.5 mg Minus Diclofenac
Pain Walking on a Flat Surface (WOMAC) (0- to 100-mm VAS)*		
034	2.98 (-0.50, 6.45)	5.27 (1.79, 8.75)
035	2.75 (-0.93, 6.43)	3.74 (0.07, 7.40)
Combined Analysis 034 and 035	2.84 (0.30, 5.37)	4.45 (1.91, 6.99)
Patient Global Assessment of Response to Therapy (0- to 4-Point Likert Scale)***		
034	0.16 (0.01, 0.31)	0.21 (0.06, 0.36)
035	0.19 (0.05, 0.33)	0.24 (0.10, 0.38)
Combined Analysis 034 and 035	0.17 (0.07, 0.27)	0.23 (0.13, 0.33)
Investigator Global Assessment of Disease Status (0- to 4-Point Likert Scale)**		
034	0.13 (0.00, 0.25)	0.16 (0.04, 0.29)
035	0.17 (0.05, 0.30)	0.18 (0.06, 0.31)
Combined Analysis 034 and 035	0.15 (0.06, 0.24)	0.18 (0.09, 0.26)
Difference in LS Means (MK-0966 minus diclofenac) greater than zero favor diclofenac. Differences less than zero favor MK-0966.		
* Scale reversed so decreasing values indicate improvement to be consistent with presentation of the other end points.		
* All 95% CIs within prespecified comparability bounds ± 10 mm.		
** All 95% CIs within prespecified comparability bounds ± 0.50 .		

[P034; P035; 236]

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Appendix 10.2 Study 034 secondary endpoints, 12 weeks.

TABLE 20

Summary of Key Secondary and Other End Points
 Pairwise Treatment Differences in Least-Squares Mean Change
 Averaged Over 12-Week Treatment Period
 (Intention-to-Treat Approach)

Key Secondary End Point	Pairwise Treatment Difference in LSMean (95% CI)		
	25 mg—Diclofenac	12.5 mg—Diclofenac	25 mg—12.5 mg
Physical Function Subscale (WOMAC) (0 to 100-mm VAS)	2.22 (-0.72, 5.15)	3.70 (0.76, 6.64)	-1.48 (-4.43, 1.46)
Pain Subscale (WOMAC) (0- to 100-mm VAS)	1.84 (-1.09, 4.76)	4.40 (1.47, 7.33)	-2.57 (-5.50, 0.36)
Stiffness Subscale (WOMAC) (0- to 100-mm VAS)	1.80 (-1.55, 5.14)	3.86 (0.50, 7.22)	-2.07 (-5.44, 1.30)
Patient Global Assessment of Disease Status (VAS) (0- to 100-mm VAS)	3.89 (0.52, 7.26)	4.33 (0.95, 7.71)	-0.44 (-3.83, 2.94)
Other End Point	Pairwise Treatment Difference in LSMean (95% CI)		
	25 mg—Diclofenac	12.5 mg—Diclofenac	25 mg—12.5 mg
Investigator Global Assessment of Response to Therapy (0 to 4 point Likert)	0.12 (-0.02, 0.26)	0.19 (0.05, 0.33)	-0.07 (-0.21, 0.08)
Study-joint Tenderness (0 to 3 point Likert)	0.02 (-0.09, 0.13)	-0.01 (-0.11, 0.10)	0.02 (-0.08, 0.13)
Paracetamol Usage (For Rescue) (tabs/day)	0.08 (-0.02, 0.18)	0.13 (0.03, 0.23)	-0.05 (-0.15, 0.05)
Total Score Average (WOMAC) (0- to 100-mm VAS)	2.16 (-0.71, 5.04)	3.71 (0.83, 6.59)	-1.55 (-4.44, 1.33)
Subscale Average (WOMAC) (0- to 100-mm VAS)	2.02 (-0.89, 4.93)	3.71 (0.79, 6.63)	-1.69 (-4.61, 1.23)
Patients with swelling in study joints at Week 12	Pairwise Difference in Percent of Patients (95% CI) at Week 12		
	25 mg—Diclofenac	12.5 mg—Diclofenac	25 mg—12.5 mg
	-5.94 (-14.17, 2.29)	-3.88 (-12.35, 4.58)	-2.06 (-9.82, 5.70)

Data Source: [4.35]

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Appendix 10.3. Primary endpoints, studies 034 and 035, 6 months.

Table D-40

Pairwise Difference in LS Mean for the Primary End Points
Mean Change From Baseline (Randomization Visit)
Averaged Over 6-Month Treatment Period
(Protocols 034 and 035)

End Point	Difference in LS Mean [†] (95% CI)	
	25 mg Minus Diclofenac	12.5 mg Minus Diclofenac
Pain Walking on a Flat Surface (WOMAC) (0- to 100-mm VAS)*		
034	3.40 (-0.07, 6.87)	5.53 (2.06, 9.00)
035	2.06 (-1.59, 5.71)	2.62 (-1.02, 6.26)
Combined Analysis 034 and 035	2.66 (0.13, 5.19)	3.98 (1.45, 6.50)
Patient Global Assessment of Response to Therapy (0- to 4-Point Likert Scale)**		
034	0.16 (0.01, 0.31)	0.21 (0.06, 0.36)
035	0.18 (0.05, 0.32)	0.21 (0.07, 0.34)
Combined Analysis 034 and 035	0.17 (0.07, 0.27)	0.21 (0.11, 0.31)
Investigator Global Assessment of Disease Status (0- to 4-Point Likert Scale)**		
034	0.14 (0.01, 0.26)	0.17 (0.04, 0.29)
035	0.16 (0.04, 0.28)	0.15 (0.03, 0.28)
Combined Analysis 034 and 035	0.15 (0.06, 0.24)	0.16 (0.07, 0.25)
[*] All 95% CIs within prespecified comparability bounds ± 10 mm. ^{**} All 95% CIs within prespecified comparability bounds ± 0.50 . Difference in LS Means (MK-0966 minus diclofenac) greater than zero favor ibuprofen. Differences less than zero favor MK-0966. [†] Scale reversed so decreasing values indicate improvement to be consistent with presentation of the other end points. [‡] Decreasing values represent improvement.		

[P034; P035; 236]

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Appendix 10.4. 034 secondary endpoints (6 month analysis)

Summary of Key Secondary and Other End Points
 Pairwise Treatment Differences in Least-Squares Mean Change
 Averaged Over 6-Month Treatment Period
 (Intention-to-Treat Approach)

Key Secondary End Points	Pairwise Treatment Difference in LS Mean (95% CI)		
	25 mg—Diclofenac	12.5 mg—Diclofenac	25 mg—12.5 mg
Physical Function Subscale (WOMAC) (0- to 100-mm VAS)	2.54 (-0.44, 5.52)	3.98 (0.99, 6.96)	-1.43 (-4.42, 1.56)
Pain Subscale (WOMAC) (0- to 100-mm VAS)	2.25 (-0.69, 5.20)	4.60 (1.65, 7.55)	-2.35 (-5.30, 0.60)
Stiffness Subscale (WOMAC) (0- to 100-mm VAS)	2.24 (-1.11, 5.59)	4.38 (1.01, 7.74)	-2.14 (-5.51, 1.24)
Patient Global Assessment of Disease Status (VAS) (0- to 100-mm VAS)	4.15 (0.76, 7.54)	4.73 (1.33, 8.13)	-0.58 (-3.99, 2.82)
Discontinuation Due to Lack of Efficacy (Difference in Percent)	Difference in Percentage Points (95% CI)		
	2.54 (-2.08, 7.16)	3.87 (-0.95, 8.69)	-1.33 (-6.51, 3.84)
Other End Points	Pairwise Treatment Difference in LS Mean (95% CI)		
	25 mg—Diclofenac	12.5 mg—Diclofenac	25 mg—12.5 mg
Investigator Global Assessment of Response to Therapy (0 to 4 point Likert)	0.13 (-0.01, 0.27)	0.19 (0.05, 0.33)	-0.06 (-0.20, 0.08)
Study-joint Tenderness (0 to 3 point Likert)	0.08 (-0.03, 0.19)	0.04 (-0.07, 0.14)	0.04 (-0.06, 0.15)
Paracetamol Usage (For Rescue) (tablets/day)	0.09 (-0.00, 0.19)	0.13 (0.03, 0.22)	-0.03 (-0.13, 0.06)
Total Score Average (WOMAC) (0- to 100-mm VAS)	2.51 (-0.40, 5.43)	4.00 (1.08, 6.92)	-1.48 (-4.41, 1.44)
Subscale Average (WOMAC) (0- to 100-mm VAS)	2.43 (-0.51, 5.37)	4.03 (1.09, 6.98)	-1.61 (-4.56, 1.35)
Patients with swelling in study joints at Month 6	Difference in Percent of Patients (95% CI) at Month 6		
	25 mg—Diclofenac	12.5 mg—Diclofenac	25 mg—12.5 mg
	-5.05 (-13.53, 3.43)	-1.11 (-10.16, 7.93)	-3.94 (-12.24, 4.38)

Data Source: [4.35]

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Appendix 11. Study 035 randomization and accounting. (6- month data)

Patient Accounting

	MK-0966		Diclofenac 150 mg	Total
	12.5 mg	25 mg		
ENTERED:	259	257	268	784
Male (age range) [†]	90 (39 to 79)	82 (40 to 83)	83 (40 to 84)	255 (39 to 84)
Female (age range) [†]	169 (39 to 86)	175 (39 to 87)	185 (39 to 91)	529 (39 to 91)
	n (%)	n (%)	n (%)	n (%)
COMPLETED:	183 (70.7)	166 (64.6)	173 (64.6)	522 (66.6)
DISCONTINUED:	76 (29.3)	91 (35.4)	95 (35.4)	262 (33.4)
Clinical adverse experience	29 (11.2)	25 (9.7)	35 (13.1)	89 (11.4)
Laboratory adverse experience	1 (0.4)*	2 (0.8)*	14 (5.2)	17 (2.2)
Deviation from protocol	6 (2.3)	6 (2.3)	7 (2.6)	19 (2.4)
Patient withdrew consent	3 (1.2)	4 (1.6)	10 (3.7)	17 (2.2)
Lost to follow-up	1 (0.4)	1 (0.4)	1 (0.4)	3 (0.4)
Lack of efficacy	34 (13.1)	50 (19.5)**	27 (10.1)	111 (14.2)
Other reasons [‡]	2 (0.8)	3 (1.2)	1 (0.4)	6 (0.8)

* p<0.001 vs. diclofenac.
 ** p=0.003 vs. diclofenac.
 † Birth date masking to 12/31/XX in database, where XX is the true year of birth, may cause patient's age to appear 1 year younger than the actual age, depending on the date of randomization. All patients were ≥39 years of age when randomized.
 ‡ Includes reasons other than those listed.

Data Source: [4.13.1; 4.21.1; 4.31]

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A.11.1

Summary of Key Secondary and Other End Points
Pairwise Treatment Differences Averaged Over 12-Week Treatment Period
(Intention-to-Treat Approach)

End Point	Pairwise Treatment Difference		
	25 mg vs. Diclofenac	12.5 mg vs. Diclofenac	25 mg vs. 12.5 mg
Key Secondary End Points			
	Difference in LSMean (95% CI)		
Physical Function Subscale (WOMAC) (0- to 100-mm VAS)	2.39 (-0.92, 5.71)	3.92 (0.61, 7.23)	-1.53 (-4.87, 1.81)
Pain Subscale (WOMAC) (0- to 100-mm VAS)	2.79 (-0.59, 6.17)	3.83 (0.46, 7.21)	-1.05 (-4.45, 2.36)
Stiffness Subscale (WOMAC) (0- to 100-mm VAS)	3.24 (-0.26, 6.75)	5.13 (1.63, 8.62)	-1.88 (-5.41, 1.65)
Patient Global Assessment of Disease Status (0- to 100-mm VAS)	5.11 (1.57, 8.66)	5.32 (1.79, 8.85)	-0.21 (-3.77, 3.36)
Other End Points			
	Differences in LSMean (95% CI)		
End Point	25 mg vs. Diclofenac	12.5 mg vs. Diclofenac	25 mg vs. 12.5 mg
Investigator Global Assessment of Response to Therapy (0- to 4-point Likert)	0.23 (0.09, 0.36)	0.17 (0.03, 0.30)	0.06 (-0.07, 0.20)
Study Joint Tenderness (0- to 3-point Likert)	-0.06 (-0.17, 0.06)	-0.04 (-0.15, 0.07)	-0.02 (-0.13, 0.10)
Acetaminophen Use (for Rescue) (tabs/day)	0.08 (-0.04, 0.20)	0.12 (-0.00, 0.24)	-0.04 (-0.16, 0.09)
Total Score Average (WOMAC) (0- to 100-mm VAS)	2.51 (-0.77, 5.79)	3.94 (0.67, 7.21)	-1.44 (-4.74, 1.87)
Subscale Average (WOMAC) (0- to 100-mm VAS)	2.74 (-0.54, 6.03)	4.21 (0.93, 7.48)	-1.46 (-4.77, 1.84)
	Differences in Percentage Points (95% CI)		
Study Joint Swelling (0=Absent, 1=Present) at Week 12 (regardless of baseline swelling status)	5.53% (-4.18%, 15.23%)	2.25% (-6.94%, 11.43%)	3.28% (-6.61%, 13.16%)

Data Source: [4.32]

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A.11.2. Study 035. Secondary efficacy endpoints. 6- month data.

Table 38

Summary of Key Secondary and Other End Points
 Pairwise Treatment Differences in Least Square Mean
 Averaged Over 6-Month Treatment Period
 (Intention-to-Treat Approach)

End Point	Pairwise Treatment Difference		
	25 mg vs. Diclofenac	12.5 mg vs. Diclofenac	25 mg vs. 12.5 mg
Key Secondary End Points			
	Difference in LS Mean (95% CI)		
Physical Function Subscale (WOMAC) (0- to 100-mm VAS)	2.03 (-1.27, 5.33)	3.10 (-0.20, 6.39)	-1.07 (-4.39, 2.26)
Pain Subscale (WOMAC) (0- to 100-mm VAS)	2.31 (-1.06, 5.68)	2.90 (-0.46, 6.26)	-0.59 (-3.99, 2.80)
Stiffness Subscale (WOMAC) (0- to 100-mm VAS)	2.59 (-0.87, 6.06)	4.09 (0.63, 7.55)	-1.50 (-4.99, 1.99)
Patient Global Assessment of Disease Status (0- to 100-mm VAS)	4.46 (0.96, 7.96)	3.97 (0.48, 7.46)	0.49 (-3.04, 4.01)
Discontinuation Due to Lack of Efficacy Over 6 Months	Difference in Percentage Points (95% CI)		
	9.37% (3.35%, 15.41%)	3.06% (-2.42%, 8.52%)	6.33% (-0.02%, 12.68%)
Other End Points			
	Difference in LS Mean (95% CI)		
End Point	25 mg vs. Diclofenac	12.5 mg vs. Diclofenac	25 mg vs. 12.5 mg
Investigator Global Assessment of Response to Therapy (0- to 4-point Likert)	0.23 (0.09, 0.36)	0.17 (0.03, 0.30)	0.06 (-0.07, -0.20)
Study Joint Tenderness (0- to 3-point Likert)	-0.06 (-0.17, 0.05)	-0.06 (-0.16, 0.05)	-0.00 (-0.11, 0.10)
Acetaminophen Use (for Rescue) (tabs/day)	0.07 (-0.05, 0.18)	0.09 (-0.03, 0.20)	-0.02 (-0.14, 0.10)
Total Score Average (WOMAC) (0- to 100-mm VAS)	2.10 (-1.17, 5.37)	3.08 (-0.18, 6.34)	-0.98 (-4.27, 2.31)
Subscale Average (WOMAC) (0- to 100-mm VAS)	2.25 (-1.02, 5.52)	3.28 (0.02, 6.54)	-1.03 (-4.32, 2.26)
Study Joint Swelling (0=Absent, 1=Present) at Month 6 (regardless of baseline swelling status)	Difference in Percentage Points (95% CI)		
	-0.46% (-10.38%, 9.47%)	0.45% (-9.24%, 10.13%)	-0.91% (-10.59%, 8.78%)

Data Source: [4.3; 4.32]

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