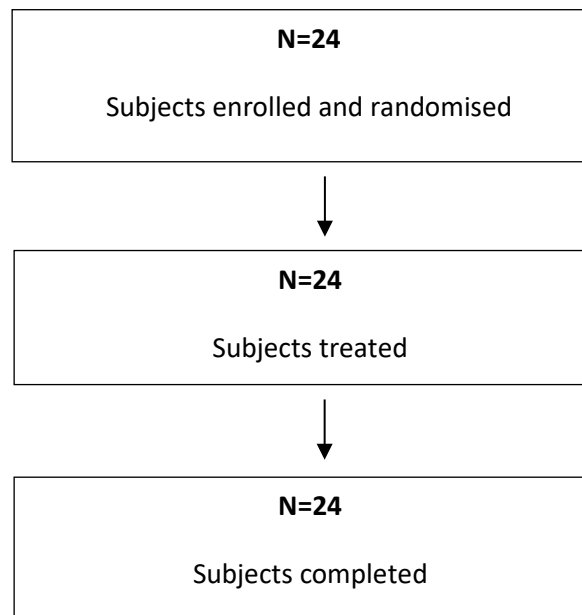


Participant flow



Baseline characteristics

Demographic data	Enrolled set N=24
Sex	
Female – n (%)	13 (54.2 %)
Male – n (%)	11 (45.8 %)
Age (years)	
Mean ± SD	40.1±9.9
Median (range)	42.0 (21 – 55)
Body weight (kg)	
Mean ± SD	66.55±12.78
Median (range)	63.75 (45.1 – 96.9)
Height (cm)	
Mean ± SD	169.8±9.2
Median (range)	170.0 (155 – 187)
Body Mass Index (kg/m²)	
Mean ± SD	22.95±3.09
Median (range)	22.10 (18.5 – 29.6)
Race	
White – n (%)	23 (95.8 %)
Asian – n (%)	1 (4.2 %)

Outcome measures

Analysis of plasma diclofenac after single application

Main diclofenac plasma PK parameters after single application of DHEP 2.6% (T) and DHEP 1.3% (R). N=24.

Diclofenac PK parameters	DHEP 2.6% (T) N=24	DHEP 1.3% (R) N=24
C_{max}0-24h(SD) (ng/mL)	5.72±3.88	3.97±2.68
C_{24h}(SD) (ng/mL)	5.53±3.73	3.80±2.68
t_{max}0-24h(SD) (h)	24.00 (12.50 – 24.00)	22.50 (15.00 – 24.00)
C_{max}0-12h(SD) (ng/mL)	--	2.65±1.66
C_{12h}(SD) (ng/mL)	3.98±3.13	2.64±1.65
t_{max}0-12h (SD) (h)	--	12.00 (9.00 – 12.00)
AUC_{0-24h} (ng/mL×h)	79.55±59.51	54.05±35.25
AUC_{0-12h} (SD) (ng/mL×h)	--	16.23±11.68

Values are arithmetic means ± SD, except for t_{max}: median (min-max)

Outcome of the statistical test of diclofenac plasma PK parameters after single application of DHEP 2.6% (T) and DHEP 1.3% (R). N = 24.

Treatment comparison	Parameter	PE%	90% CI
T vs. R	C_{max}0-24h(SD)	135.16%	117.80 – 155.07
	AUC_{0-24h}	129.25%	112.79 – 148.10
		Wilcoxon signed rank test p-value	
	t_{max}0-24h(SD)	0.1240	

PE: Point estimate, calculated as ratio of geometric means; CI: confidence interval

Analysis of plasma diclofenac after multiple applications

Main diclofenac plasma PK parameters after multiple applications of DHEP 2.6% once a day (T) and DHEP 1.3% twice a day (R). N=24.

Diclofenac PK parameters	DHEP 2.6% o.d. (T) N=24	DHEP 1.3% b.i.d. (R) N=24
C_{max}0-24h(RD) (ng/mL)	5.63±2.72	4.34±2.11
C_{24h}(RD) (ng/mL)	4.50±2.28	--
t_{max}0-24h(RD) (h)	4.00 (0.00 – 24.00)	4.00 (4.00 – 24.00)
C_{max}0-12h(RD) (ng/mL)	--	4.10±1.95
C_{12h}(RD) (ng/mL)	--	3.01±1.45
t_{max}0-12h (RD) (h)	--	4.00 (0.00 – 12.00)
C_{min}0-24h (ng/mL)	3.26±1.62	2.37±1.26
C_{min}0-12h (ng/mL)	--	2.62±1.34
C_{ave}0-24h (ng/mL)	4.27±1.98	3.30±1.60
C_{ave}0-12h (ng/mL)	--	3.27±1.59
Flu_(0-24h) (%)	55.61±10.82	60.75±18.43
AUC_{0-24h}(RD) (ng/mL×h)	102.39±47.60	79.24±38.37
AUC_{0-12h} (RD) (ng/mL×h)	--	39.19±19.03

Values are arithmetic means ± SD, except for t_{max}: median (min-max)

Outcome of the statistical test of diclofenac plasma PK parameters after multiple applications of DHEP 2.6% once a day (T) and DHEP 1.3% twice a day (R). N=24.

Treatment comparison	Parameter	PE%	90% CI
T vs. R	C_{max}0-24h(SD)	127.13%	114.36 – 141.33
	AUC_{0-24h}	127.24%	116.37 – 139.14
		Wilcoxon signed rank test p-value	
	t_{max}0-24h(SD)	0.3252	

PE: Point estimate, calculated as ratio of geometric means; CI: confidence interval

Adverse events

Overview of TEAEs: number of TEAEs and number of subjects with TEAEs. Safety set

Category	DHEP 2.6% o.d. (T) N=24		DHEP 1.3% b.i.d. (R) N=24		Overall N=24	
	N AEs	n (%) subjects	N AEs	n (%) subjects	N AEs	n (%) subjects
All TEAEs	4	4 (16.7)	1	1 (4.2)	5	5 (20.8)
Related	3	3 (12.5)	0	0 (0.0)	3	3 (12.5)
Not related	1	1 (4.2)	1	1 (4.2)	2	2 (8.3)
Leading to discontinuation	0	0 (0.0)	0	0 (0.0)	0	0 (0.0)
SAEs	0	0 (0.0)	0	0 (0.0)	0	0 (0.0)

Number of subjects reporting and number of reported TEAEs by treatment, system organ class (SOC) and preferred term (PT). Safety set

MedDRA description SOC and PT term	DHEP 2.6% o.d. (T) N=24		DHEP 1.3% b.i.d. (R) N=24	
	AEs n	Subjects n (%)	AEs n	Subjects n (%)
Total number of AEs and of subjects with at least one AE	4	4 (16.7)	1	1 (4.2)
General disorders and administration site conditions	2	2 (8.3)	1	1 (4.2)
Application site erythema	2	2 (8.3)	0	0
Influenza like illness	0	0	1	1 (4.2)
Nervous system disorders	1	1 (4.2)	0	0
Headache	1	1 (4.2)	0	0
Respiratory, thoracic and mediastinal disorders	1	1 (4.2)	0	0
Oropharyngeal pain	1	1 (4.2)	0	0