

Multi Center, Randomized double-blind placebo-controlled study
Aju University Medical Center Anam Hospital of Korea Univ. Severance Hospital of Yonsei Univ.
12 weeks
638 mg tablet orally twice a day
96 female participants of age of 40~70 with menopausal symptoms
Age of 40 ~ 70 with menopausal symptoms





Significantly Improved!

- Hot flash
- Paresthesia
- Nervousness
- > Fatigue
- Melancholia
- Vertigo
- Formication
- Rheumatic pain
- Vaginal Dryness

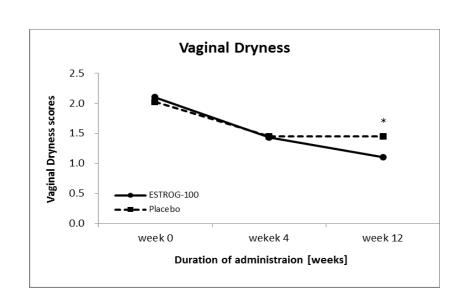
- ➤ The result almost duplicate the 2nd Clinical Study (Non-Asian) by improving as many as 10 different symptoms when we add insomnia since the improvement of trouble sleeping is marginally significant (p=0.052) in terms of efficacy.
- No significant differences or changes observed when measured endometrial thickness.
- No change in weight, BMI, and the level of estrogen and FSH without any adverse event reported during the study. The endometrial thickness was measured to be observed not to change in addition.



	Placebo	ESTROG-100	
	N=47	N=49	
	Mean±SD	Mean±SD	
Week0 (Baseline)	2.02±0.90	2.10±0.82	
Week 4	1.45 ± 1.10	1.43 ± 1.10	
Change from baseline	-0.57±1.14	-0.67±0.94	>0.05
p-value**	<0.01	<0.01	
Week 12	1.45 ± 1.06	1.10±1.12	
Change from baseline	-0.57±1.16	-1.00±0.98	<0.05
p-value**	<0.01	<0.01	











	Placebo	ESTROG-100	
	N=47	N=49	
	Mean±SD	Mean±SD	
Week0 (Baseline)	33.06±7.76	35.14±8.11	
Week4	24.72±9.38	23.20±9.25	
Change from	-8.34±8.56	-11.94±10.41	<0.05
baseline	-8.34±8.30	-11.94110.41	\0.03
p-value**	<0.01	<0.01	
Week12	20.11±10.33	14.84±9.94	
Change from	42.06.42.00	20 24 442 07	.0.04
baseline	-12.96±13.09	-20.31±12.07	<0.01
p-value**	<0.01	<0.01	





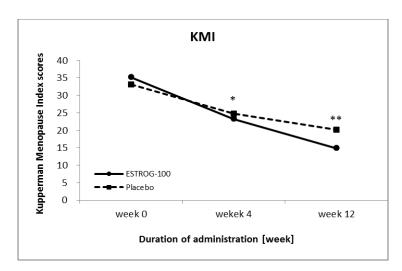


Fig. 1. Changes of Kupperman Menopause Index (Mean±SE) during 12 weeks administration of EstroG-100 and placebo.

SE: Standard Error, *: Statistically significant compared between groups; p<0.05

**: Statistically significant compared between groups; p<0.01 by t-test(ITT)



	EstroG-100 (N=49)					Placebo (N=47)				
						Week 0 (Baseline)	Week 4	Change from baseline	Week 12	Change from baseline
Hot Flush	2.10±0.92	1.53±0.96 ^{†***}	-0.57±1.00	0.84±0.92 ^{†**}	-1.27±1.09	2.09±0.86	1.68±0.89 [†]	-0.40±0.85	1.26±0.85 [†]	-0.83±1.13
Paresthesia	2.08±0.81	1.29±0.84 ^{†**}	-0.80±0.87	0.94±0.85 ^{†**}	-1.14±1.04	1.87±0.88	1.47±0.91 [†]	-0.40±0.90	1.26±0.92 [†]	-0.62±1.19
	2.43±0.79	1.51±1.00 ^{†***}	-0.92±1.08	1.06±0.99 ^{†#}	-1.37±1.13	2.23±0.76	1.47±1.10 [†]	-0.77±1.07	1.26±1.07 [†]	-0.98±1.19
Nervousness	2.31±0.68	1.53±0.84 ^{†***}	-0.78±0.87	0.92±0.79 ^{†**}	-1.39±1.00	2.13±0.80	1.57±0.93 [†]	-0.55±0.77	1.17±0.84 [†]	-0.96±1.00
Melancholia	2.10±0.80	1.41±0.70 ^{†***}	-0.69±0.94	0.90±0.77 ^{†**}	-1.20±1.02	1.89±0.81	1.32±0.86 [†]	-0.57±0.80	1.15±0.69 [†]	-0.74±1.01
Vertigo	1.63±0.88	1.14±0.89 ^{†***}	-0.49±0.94	0.67±0.80 ^{†**}	-0.96±0.89	1.55±0.95	1.06±0.76 [†]	-0.49±1.08	1.09±0.86 [†]	-0.47±1.23
Fatigue	2.47±0.65	1.78±0.92 ^{†**}	-0.69±0.87	1.27±0.93 ^{†*}	-1.20±1.02	2.11±0.81	1.72±0.90 [†]	-0.38±0.77	1.47±0.88 [†]	-0.64±1.09
Rheumatic pain	2.18±0.70	1.41±0.93 ^{†**}	-0.78±0.96	0.96±0.96 ^{†**}	-1.22±0.98	2.19±0.88	1.77±0.96 [†]	-0.43±0.83	1.43±0.88 [†]	-0.77±1.07
Headaches	1.65±1.03	0.98±0.85 [†] ***	-0.67±0.99	0.73±0.78 [†] ***	-0.92±1.10	1.64±0.92	1.13±0.99 [†]	-0.51±0.98	0.94±0.92 [†]	-0.70±1.04
Palpitation	1.80±0.89	1.08±0.81 [†] ***	-0.71±0.96	0.65±0.72 ^{†***}	-1.14±1.02	1.79±0.91	1.19±0.95 [†]	-0.60±1.06	0.94±0.79 [†]	-0.85±1.16
Formication	1.27±1.06	0.63±0.81 ^{†**}	-0.63±1.09	0.47±0.77 ^{†**}	-0.80±1.06	1.09±0.93	0.79±0.86 [†]	-0.30±1.06	0.72±0.83 [†]	-0.36±0.97

