Supplementary Online Content

Lee CC, Wang CY, Yen HK, et al. Zoledronate sequential therapy after denosumab discontinuation to prevent bone mineral density reduction: a randomized clinical trial. *JAMA Netw Open*. 2024;7(11):e2443899. doi:10.1001/jamanetworkopen.2024.43899

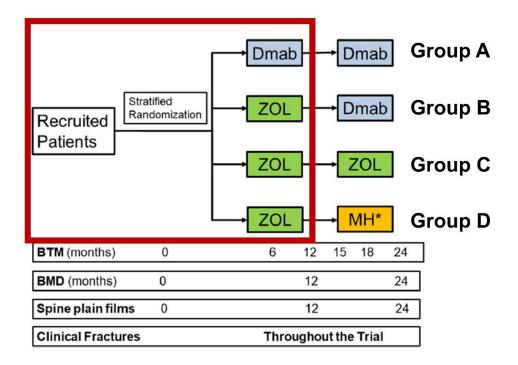
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This supplementary material has been provided by the authors to give readers additional information about their work.



eFigure. Flow Chart of the 2-Year Study

The red frame highlights the first year of the trial.

Abbreviations: Dmab, denosumab; ZOL, zoledronate; MH, monitored drug holiday;

BTM, bone turnover markers; BMD, bone mineral density.

* An extra ZOL injection will be given once the C-terminal telopeptide levels raise

above the pre-specified threshold, 0.573 ng/mL in post-menopausal women and

0.584 ng/mL in men, respectively.

Stratification	Stratification	Group	Group	Group	Group	Case number in
by sex	by T-score	A	В	С	D	each stratum
Female	T-score > -2.5	10	10	11	10	41
	T-score ≤ -2.5	13	13	14	14	54
Male	T-score > -2.5	1	1	0	1	3
	T-score ≤ -2.5	1	1	0	1	3
	Case number	25	25	25	26	Total number = 101

eTable 1. Results of Stratified Randomization

eTable 2. Bone Mineral Density (BMD) Loss in the Lumbar Spine, Total Hip, and Femoral Neck Exceeding the Least Significant Change in the Zoledronate (ZOL) Group

	Age (median[IQR])	Weight (median[IQR])	BMD change (median[IQR])
ALL (n=73)			
LS(n=11)	73.00[65.00, 75.50]	50.00[44.50, 53.35]	-7.35 [-9.99, -6.69]
TH(n=6)	67.00[63.75, 70.25]	51.25[44.13, 56.50]	-5.09 [-6.11, -4.31]
FN(n=12)	73.00[67.75, 78.00]	56.00[47.00, 58.50]	-5.17 [-6.93, -4.99]
Denosumab use	for ≤ 2.5 years (n=58)		
LS(n=5)	71.00[67.00, 74.00]	53.00[52.00, 53.70]	-7.12 [-7.35, -6.99]
TH(n=4)	67.00[63.25, 68.75]	51.25[46.13, 59.25]	-5.99 [-6.28, -5.38]
FN(n=9)	72.00[68.00, 78.00]	55.00[47.00, 58.	-5.03 [-8.64, -4.98]
Denosumab use	for \leq 3 years (n=61)		
LS(n=6)	72.50[68.00, 77.75]	52.50[48.25, 53.53]	-7.06 [-7.29, -6.45]
TH(n=4)	67.00[63.25, 68.75]	51.25[46.13, 59.25]	-5.99 [-6.28, -5.38]
FN(n=9)	72.00[68.00, 78.00]	55.00[47.00, 58.00]	-5.03[-8.64, -4.98]
Denosumab use	for \geq 3 years (n=15)		
LS(n=6)	73.35[65.50, 76.25]	44.50[43.25, 48.75]	-8.67 [-10.45, -6.76]
TH(n=2)	68.50[65.75, 71.25]	50.00[46.50, 53.50]	-4.32 [-4.38, -4.26]
FN(n=3)	74.00[68.50, 76.00]	57.00[50.00, 65.50]	-5.31 [-5.84, -5.17]

Least significant change: Lumbar spine >5%, total hip>4%, femoral neck>4%

LS: Lumbar spine; TH: Total hip; FN: Femoral neck

eTable 3. Bone Mineral Density (BMD) Changes in Women Who Had Ever Suffered Vertebral Fractures in the Zoledronate (ZOL) Group (n = 63)

	Median [IQR]
Age (years)	71.00 [65.50, 75.50]
Weight (kg)	57.00 [49.00, 64.00]
BMD change (%)	
LS	-0.65 [-3.58, 2.68]
ТН	0.48[-1.43, 2.39]
FN	0.81 [-2.53, 3.79]
F IN	0.81 [-2.35, 5.79]

LS: Lumbar spine; TH: Total hip; FN: Femoral neck