

**TABLE. Results of Clinical Trials of Testosterone Therapy in Women\***

Trial	Therapy	Rx Duration	Sexual Function	Psychological Parameters	Population	Study Design	Dose Effect on T* (reproductive age range)
<b>Placebo-controlled trials</b>							
Sherwin et al <sup>11,20</sup> n = 43	IM E, T, or E + T 150 mg T + E; or 200 mg TE q mo	3 mo	↑ Desire ↑ Fantasy ↑ Arousal	↑ Energy ↑ Well-being ↓ Psychological symptoms	SMP only	Crossover	Initially > nl
Myers et al <sup>27</sup> n = 40	Oral E, E + MPA, E + MT 5 mg MT qd	2 mo	↑ Pleasure from masturbation	No Effect	37 NMP; 3 SMP	Parallel	Initially > nl
Shifren et al <sup>6</sup> n = 65	Oral E + transdermal T T 150 mcg qd; T 300 mcg qd	3 mo	Effect of 300 mcg dose: ↑ Frequency ↑ Pleasure/ orgasm	Effect of 300 mcg dose: ↑ Mood ↑ Well-being	SMP only	Crossover	nl free T; > nl total T
Braunstein et al <sup>12</sup> n = 447	Oral E + transdermal T T 150 mcg qd; T 300 mcg qd; T 450 mcg qd	6 mo	↑ Desire ↑ Satisfying activity	Not reported	SMP only	Parallel	Not reported
Simon et al <sup>13</sup> n = 562; Buster et al <sup>14</sup> n = 533	Oral or transdermal E + transdermal T 300 mcg qd	6 mo	↑ Desire ↑ Satisfying activity ↑ Arousal ↑ Orgasm ↑ Pleasure ↑ Responsive- ness ↑ Self Image ↓ Concerns ↓ Personal distress	Not reported	SMP only	Parallel	Not reported
Goldstat et al <sup>4</sup> n = 31	1% T cream 10 mg qd	3 mo	↑ Interest ↑ Activity ↑ Satisfaction ↑ Pleasure ↑ Fantasy ↑ Orgasm	↑ Well-being ↓ Anxiety ↑ Self- confidence ↑ Vitality	Pre-MP	Crossover	nl total T; > nl FAI

\*Modified with permission from The American Society for Reproductive Medicine. From Cameron DR, Braunstein GD. Androgen replacement therapy in women. *Fertil Steril.* 2004;82(2):273-289.

†T levels were supraphysiologic for several patients, which required withholding implants; mean T levels were reported as physiologic.

IM = intramuscular; E = estrogen; T = testosterone; TE = testosterone enanthate; ↑ = increase/improved; ↓ = decrease; SMP = surgically menopausal; > nl = supraphysiologic; MPA = medroxyprogesterone acetate; MT = methyltestosterone; NMP = naturally menopause; nl = physiologic; Pre-MP = premenopausal; FAI = free androgen index; SC = subcutaneous implanted pellets.

**TABLE. Results of Clinical Trials of Testosterone Therapy in Women\* (continued)**

Trial	Therapy	Rx Duration	Sexual Function	Psychological Parameters	Population	Study Design	Dose Effect on T* (reproductive age range)
<b>Estrogen-controlled trials</b>							
Sarrel et al <sup>8</sup> n = 20	Oral E + T 2.5 mg MT qd	2 mo	↑ Frequency ↑ Sensation ↑ Desire	Not tested	12 NMP; 8 SMP	Placebo lead-in	Not reported
Lobo et al <sup>3</sup> n = 218	Oral E + T 1.25 mg MT qd	4 mo	↑ Interest or desire ↑ Responsiveness	Not tested	150 NMP; 68 SMP	Parallel	> nl
Dow et al <sup>28</sup> n = 40	SC E + T T 100 mg	4 mo	↑ Orgasm at 2 mo (low-dyspareunia patients only)	↑ "Psychological factor" (low-dyspareunia patients only)	6 NMP; 34 SMP	Parallel	Unknown
Burger et al <sup>15</sup> n = 20	SC E + T T 50 mg	6 wk	↑ Libido ↑ Enjoyment	Not tested	14 NMP; 6 SMP	Parallel	> nl
Davis et al <sup>9</sup> n = 32	SC E + T T 50 mg q 3 mo	2 y	↑ Activity ↑ Satisfaction ↑ Orgasm ↑ Pleasure ↑ Relevance	Not tested	30 NMP; 2 SMP	Parallel	> nl <sup>†</sup>
Burger et al <sup>16</sup> n = 17	SC E + T T 100 mg	6 mo	↑ Libido ↑ Enjoyment ↑ Climax ↑ Initiation	↓ Fatigue ↑ Concentration	6 NMP; 11 SMP	Pilot study	> nl
Sherwin et al <sup>10</sup> n = 44	IM E + TE T 150 mg q mo	2 y	↑ Desire ↑ Arousal ↑ Fantasies ↑ Frequency ↑ Orgasm	↑ Mood ↑ Composure ↑ Elation ↑ Energy ↓ Depression ↓ Fatigue ↓ Anxiety	SMP only	2-y follow-up	> nl

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