Table 5. Testosterone changes in aged subjects

Authors	N	Age	Studies	Results	
Zumoff B et al 1982[43]	35	21-85yrs		35% decrease between 21 and 85 years of age	
Morley JE et al 1987[36]	77	61-87yrs	Longitudinal 1981-1982, 1984, 1989, 1990	Decrease 1.1ngml/L (3.7 nmol/L) decade	
Vermeulin A et al 1996[37]	300	20-100yrs	Longitudinal 13 years	At 75yrs mean T 2 thirds and FT 50% of T at 20yrs	
Ferrini R et al Rancho Bernardo Study 1998[40]	810	24-90yrs	Longitudinal 1984, 1987, 1993	Testosterone decline by 1.9pgml/L FT decline by 18.5pgml/L	
Barret-Connot E et al 1999[42]	856	50-89yrs		Decade 50-59 (n=701) T=10.5±3.07 nmol/L Bioavail T=4.27±1.09 nmol/L Decade 80-89 (n=155) T=10.3±4.4 nmol/L Bioavail T=2.61±1.07 nmol/L	
Harman SM et al Baltimore Longitudinal Study on Aging 2001[44]	890	58±15yrs	Cross-sectional 3rd to 9th decade	Testosterone decline 0.124nmol/L yearly T/SHBG – 0.0049nmol/L yearly	
Feldman HA et al Massachusetts Male Aging Study 2002[16]	1156	40-69yrs at baseline	Longitudinal 1987+1989	Cross-sectional	T= -1.6% FT= -2.3%
				Multitudinal	T= -0.8% FT= -2%