

Summary Results for Estradiol for Participants Stratified by Age and Gender

Reader's Guide to Understanding This Information:

Normal estradiol levels vary by both age and gender. In females who are post-menarchal but pre-menopausal – that is females who have begun ovulating and experience monthly menstrual cycles – hormone levels, including estradiol, vary greatly throughout the menstrual cycle.

As normal estradiol levels are dependent upon the time since the date of the most recent menstrual period, information not collected as part of the C8 Health Project, observed estradiol levels are presented in the table below stratified by age and gender. While expected normal ranges and the percent of participants with estradiol levels within and outside these ranges are presented, caution in interpreting these results is required as information regarding the timing of the lab test with regard to the menstrual cycle of female participants is unknown.

Age Group	Gender	n	Mean	Median	Standard Deviation	1st Percentile	1st Quartile	3rd Quartile	99th Percentile
<10	Female	1466	12.17	12	6.69	3.5	7	17	29
10-12	Female	1082	28.92	20	35.82	3.5	12	33	203
13-15	Female	1263	84.30	43	471.45	8	27	77	341
16-18	Female	1495	212.80	40	1385.28	3.5	22	88	5617
19-25	Female	3698	634.27	43	2878.07	3.5	21	97	16467
26-30	Female	2673	598.85	52	2509.70	3.5	27	108	15017
31-35	Female	2793	342.23	60	1712.69	3.5	31	108	9196
36-40	Female	2910	179.29	61	1083.97	3.5	32	106	2654
41-45	Female	3175	96.96	60	492.80	3.5	29	103	471
46-50	Female	3145	66.98	38	81.98	3.5	19	84	386
51-55	Female	2741	36.82	21	50.87	3.5	14	35	275
56-60	Female	2424	25.89	19	32.97	3.5	13	27	174
61-70	Female	3284	22.14	17	23.04	3.5	11	24	115
71-80	Female	1558	19.59	16	25.27	3.5	10	22	106
>80	Female	552	18.16	15	16.71	3.5	10	22	81
<=15	Male	4127	13.26	13	7.70	3.5	8	18	34
16-20	Male	2500	23.25	22	8.66	7	17	28	45
21-60	Male	19971	25.22	24	9.86	7	19	30	52
61-70	Male	3357	28.99	25	186.86	7	19	31	54
71-80	Male	1581	25.35	24	9.47	8	19	31	50
>80	Male	349	24.06	23	10.00	3.5	17	30	49