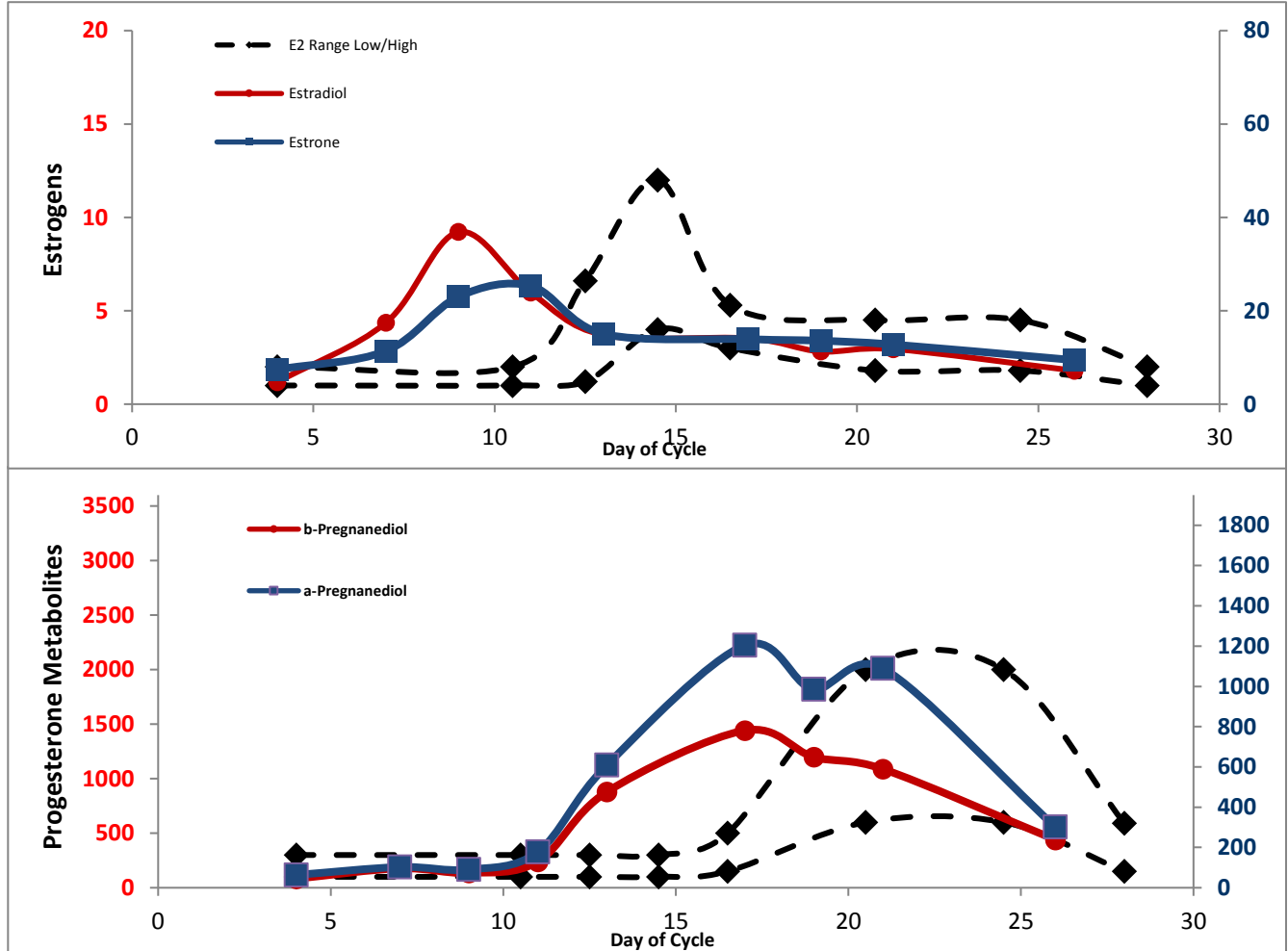


DUTCH - Cycle Mapping

Monthly Pattern of Urinary Estrogen and Progesterone Metabolites



All values given in ng/mg creatinine

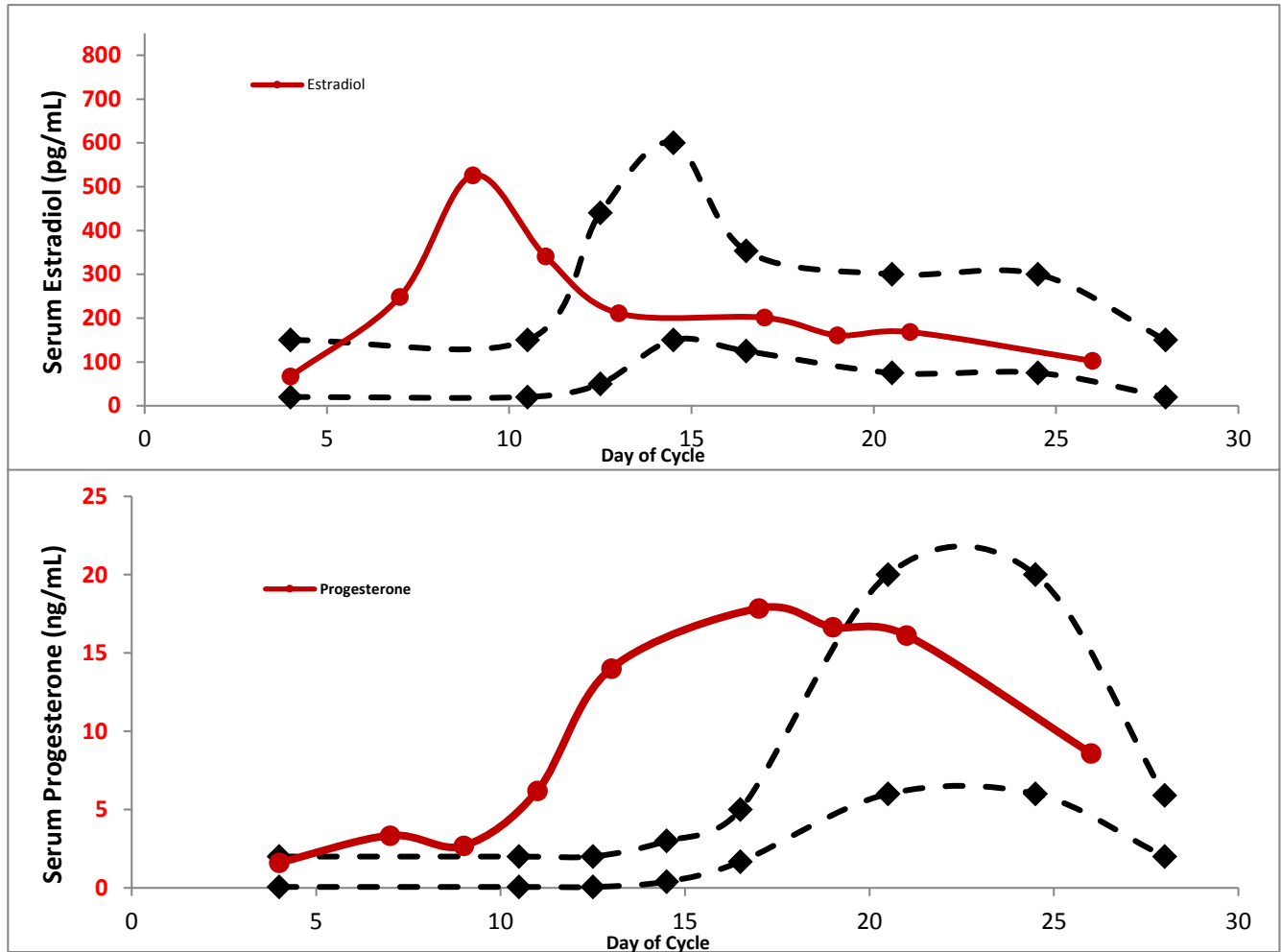
Measurement	1	2	3	4	5	6	7	8	9
Day of Cycle	4	7	9	11	13	17	19	21	26
Estradiol (E2)	1.2	4.4	9.2	6.0	3.7	3.5	2.8	2.9	1.8
Estrone (E1)	7.4	11.4	23.0	25.3	15.1	13.9	13.6	12.8	9.4
a-Pregnanediol	63	103	90	178	608	1204	985	1090	301
b-Pregnanediol	83	177	136	239	879	1442	1197	1088	439
b-Pg / E2 Ratio	71	41	15	40	237	409	425	369	245

Normal Ranges	Follicular	Ovulatory	Luteal	Postmenopausal
Estradiol	1-2ng/mg	4-12ng/mg	1.8-4.5ng/mg	0.3-0.9ng/mg
Estrone	4-12ng/mg	22-68ng/mg	12-26ng/mg	3.0-9.0ng/mg
a-Pregnanediol	25-100ng/mg	25-100ng/mg	120-740ng/mg	15-50ng/mg
b-Pregnanediol	100-300ng/mg	100-300ng/mg	450-2300ng/mg	60-200ng/mg
b-Pg / E2 Ratio	50-300	<100	100-500	50-300

Measurements are made from individual samples and/or two-day sample averages to give an optimized overview of the hormone patterns

DUTCH - Cycle Mapping

Monthly Pattern of Estradiol and Progesterone - Serum Equivalent Estimates*



Measurement	1	2	3	4	5	6	7	8	9
Day of Cycle	4	7	9	11	13	17	19	21	26
Estradiol(pg/mL)	67.0	248.6	525.7	340.8	211.2	201.1	160.8	168.1	102.2
Progesterone(ng/mL)	1.6	3.3	2.7	6.2	14.0	17.9	16.6	16.1	8.6

*Values given on this page are based on research in which women's serum (estradiol and progesterone) and urine metabolites (estradiol and a/b-pregnanediol) were both measured. Actual serum measurements were not made for this patient. These values are "research only" and are for informational purposes. The "serum equivalent" numbers are plotted with a luteal reference range of 75-300pg/mL for estradiol and 6-20ng/mL for progesterone based on serum lab values for healthy, premenopausal women. While the correlation between this test and blood levels is excellent, actual serum values may differ somewhat if measured.