

# Post Menopausal Clinical Validation Panel

(Catalog No. PM-6310)

For Investigational Research Use Only

**Application Notes:** Menopause is the physiologic cessation of menses resulting in decreasing ovarian function that leads subsequently to reduced production of follicle stimulating and luteinizing hormones as well as progesterone. It may be natural, premature or artificial and is usually diagnosed after menses has not occurred for 1 year. Our Post Menopausal Clinical Validation Panel consists of 24 serum samples collected from *physician diagnosed* post menopausal women. Four of the women included in this Panel have experienced premature menopause (menses cessation prior to the age of 40) and 3 of the subjects are currently taking an estrogen based hormone replacement therapy.

Panel Member	Date of Birth	Date of Collection	Eth	Smoking History	Alcohol History	No. of Children	Menstrual Information	Hormone Replacement Therapy	Concurrent Medical Conditions	Concurrent Medications
PM6310-01	03/29/24	10/25/95	Cau	8 Yrs Ago/Light	Occasional	5	Last Menses/1974	None	Hypertension/Arthritis/Diverticulitis/ Polyps (Colon)/Yeast Infection/ Gall Bladder Removed 1973	B Complex/Mysoline/ Mevacor/Aspirin/ Darvocet
PM6310-02	10/09/04	10/25/95	Blk	Never	No	2	Last Menses/1954	None	Hypertension/Cardiac/Arthritis	Multi-Vits/BP Medication/ Pain Medication
PM6310-03	06/26/06	10/25/95	Blk	Never	Moderate	0	Hysterectomy/1952	None	Arthritis/Low Blood Pressure	Vits (B, C)/Tylenol
PM6310-04	02/06/33	10/25/95	Blk	Never	No	6	Hysterectomy/1964	None	Thyroid Disease	Mezaline/Synthroid
PM6310-05	01/13/21	10/25/95	Blk	40 Yrs/Light	Occasional	1	Hysterectomy/1950	None	Arthritis	Ibuprofen
PM6310-06	05/04/35	10/25/95	Cau	Never	No	2	Last Menses/1972	Premarin 21 days off 21 days on	Hypertension	Aldoril
PM6310-07	01/02/08	10/25/95	Blk	Never	No	0	Hysterectomy/1949	none	Cardiac/Arthritis (Knee)/Renal Disease (Kidney Removed 1949)	Diuretic Medication
PM6310-08	11/29/31	10/25/95	Cau	30 Yrs/ Light (Quit 1 Yr Ago)	Social	4	Hysterectomy/1970	Premarin 2.5 mg/Daily	Arthritis/Ulcers/Tremors	Multi-Vits/Tagamet/Klonopin
PM6310-09	08/09/19	10/25/95	Cau	20 Yrs/ Light (Quit 10 Yrs Ago)t	No	1	Last Menses/1950	None	Allergy (Seasonal)/Osteoporosis/ Pneumonia (15 Yrs Ago)	Benadryl/Aspirin
PM6310-10	07/06/20	10/25/95	Blk	Never	No	1	Hysterectomy/1950	None	Hypertension/Cardiac/Arthritis/ Allergy (Aspirin)/Hypothyroidism	Zantac/BP Medication/Synthroid/ Vits (B, C)/Anacin
PM6310-11	08/25/06	10/25/95	Blk	Never	Social	4	Last Menses/1950	None	Hypertension	MultiVits/Nerve Medication
PM6310-12	11/23/21	10/25/95	Cau	Never	No	8	Hysterectomy/1964		Hypertension/Cardiac/Diabetes/ Arthritis/UTI (8/95)/Hiatal Hernia/ 2 Discs Removed/Knee Replacement/ Left Hip Replacement	Synthroid/Lanoxin/Accuril/ Lasix/Quinidine/Nitro Caps/ Aspirin/Coumadin/Axid/B12/D iabetic Medication
PM6310-13	01/03/26	10/25/95	Blk	26 Yrs/ Light (Quit 15 Yrs Ago)	Occasional	6	Hysterectomy/1961	None	Hypertension/Cardiac/Arthritis/Anemia	B12/Nitrostat/Advil/ Hydrochlorothiazide/ Ferret Sulfate/
PM6310-14	08/14/11	10/25/95	Cau	Never	Rarely	0	Last Menses/1955	None	Arthritis/Hiatal Hernia	Tums/Tylenol
PM6310-15	05/12/28	10/25/95	Cau	Never	No	8	Last Menses/1968	None	Hypertension	Multi-Vits/Lasix/ Procardia/Aspirin

## Etiology of Menopause

**Natural menopause** occurs at an average age of 50 to 51 years. As ovaries age, response to pituitary-produced gonadotropins (follicle-stimulating and luteinizing hormones) decreases, initially with shorter follicular phases (hence, shorter cycles), fewer ovulations, decreased progesterone production, and more cycle irregularity. Eventually, the follicle fails to respond and, without feedback of estrogen, the circulating gonadotropins rise substantially. Circulating levels of estrogens and progesterone are markedly reduced; androgen (androstenedione) is reduced by half, but testosterone decreases only slightly. This transitional phase beginning before menopause and continuing after it, during which a woman passes from her reproductive stage, is properly referred to as the **climacteric**, although most people refer to it also as menopause. **Premature menopause** refers to ovarian failure of unknown cause that occurs before age 40. Smoking is associated with early menopause. Radiation exposure, chemotherapeutic drugs, and surgery that impairs ovarian blood supply can also hasten menopause. **Artificial menopause** follows ovariectomy or radiation of the pelvis, including the ovaries

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PM6310-16	08/31/22	10/25/95	Blk	35 Yrs (Quit 1 Yr Ago) Light	No	6	Last Menses/1989	None		Diuretic Medication
PM6310-17	05/17/22	10/25/95	Cau	45 Yrs/Light	No	4	Hysterectomy/1968	Premarin Daily	Hypertension/Cardiac (Murmur)/ Arthritis/Depression	Procardia/Lotensin/ Diuretic Medication/Tylenol/ Synthroid/Adavantor/ Depnosin
PM6310-18	12/17/29	10/25/95	Cau	40 Yrs/Light	No	0	Hysterectomy/2/82	None	Diabetes/Emphysema/UTI (2 Yrs Ago)/ Bronchitis	Insulin/Humilin/Kolopin/ Tolbudine
PM6310-19	07/04/24	10/25/95	Blk	52 Yrs Ago/Light	No	4	Last Menses/1972	None	Hypertension/Allergy (Seasonal)/ Anemia	Multi-Vits/Diuretic Medication/Adalt
PM6310-20	04/10/15	10/25/95	Blk	4 Yrs Ago/Light	Occasional (20 Yrs Ago)	0	Hysterectomy/1937	None	Hypertension/Cardiac/Arthritis/ Diabetes/Dizziness/Headaches	Multi-Vits/Insulin/BP Medication/ Heart Medication
PM6310-21	11/27/22	10/25/95	Blk	Never	No	1	Hysterectomy/1957	None	Hypertension/Arthritis/GI Bleeding/ Anemia	Multi-Vits/Iron/BP Medication/ Diuretic Medication/Tylenol
PM6310-22	04/04/18	10/25/95	Cau	Never	No	2	Hysterectomy/1940	None	Hypertension/Arthritis/Osteoporosis/ Cardiac (Heart Attack 1985)/ Gall Bladder Disease (Removed 1983)	Multi-Vits/BP Medication/Relafen/ Ecotrin/Tylenol/Darvocet
PM6310-23	12/12/13	10/25/95	Blk	Never	Occasional (Not in 6 Yrs)	3	Last Menses/1950	None	Arthritis/Cardiac (Irregular Heartbeat)	Bayer Aspirin
PM6310-24	03/21/31	10/18/95	Cau	Never	Rare	3	Last Menses/11/65 Hysterectomy/8/92	None		