Plasminogen Activator Inhibitor-1 (PAI-1) assay was originally developed by Dr. Desire Collen and colleagues (DeClerck, et al, 1988), and is sensitive to free PAI-1 (both latent and active) but not PAI-1 in complex with t-PA. It is done as a two-site ELISA. Our laboratory has extensive experience with this assay (Macy, et al, 1993), having used it in over 5,000 epidemiological participants to date. Through a long-standing collaboration and agreement with Dr. Collen, we will use reagents provided to us by Dr. Collen=s laboratory. The analytical CV for this assay is 3.47% The significant diurnal change in PAI-1 levels and the potential for contamination by platelets, makes attention to the details of blood drawing particularly important (Macy, et al, 1993; Tracy and Bovill, 1995). The expected normal range is 5 to 66 ng/mL. The minimum sample volume required is 50 uL of citrated plasma.

