Study	Biomarker Measurement
ARIC	Frozen fasting blood samples were obtained at the baseline examinations and stored at - 70°C.
	<i>MCP-1</i> : Plasma concentrations of MCP-1were measured in duplicate by direct sandwich ELISA (Amersham Pharmacia Biotech Inc., Piscataway, NJ, USA <u>http://www.gelifesciences.co.jp/tech_support/manual/pdf/cellasy/RPN2769.pdf.</u>) and the intra-assay coefficient of variation was 5.78%.
	RANTES:RANTES was measured in by ELISA (Amersham Pharmacia Biotech Inc., Piscataway, NJ, USAhttp://www6.gelifesciences.com/aptrix/upp00919.nsf/Content/ECB90528BB441B9CC1256FAE000DC2B5/\$file/RPN5964PL Rev B 02-2008 WEB.pdfThe minimal detectable dose was 3.5 pg/mL, the standard curve ranged from 0-1000 pg/mL. Intra- and interassay coefficients of variation were 7.7% and 8.5% respectively.
FHS	The coefficient of variation for re-measurement was 20%. Fasting blood samples were obtained from participants, processed promptly, centrifuged and frozen at –80°C. All samples were run in duplicate and averaged.
	Intercellular adhesion molecule-1: Intercellular adhesion molecule-1 was measured in serum using a commercially available ELISA from R & D Systems (Cat. No. BBE 1B) <u>http://www.rndsystems.com/</u> . Minimum detectable dose: <0.35 ng/ml; standard curve range: 0-50 ng/mL. The intra-assay coefficient of variation was 3.7%±2.4, The coefficient of variation threshold for re- measurement was 8.8%.
	Interleukin-6: Interleukin-6 was measured in serum using a commercially available ELISA from R & D Systems (Cat. No. D6050) <u>http://www.rndsystems.com/</u> . Minimum detectable dose: <0.70 pg/mL; Standard curve range: 0–300 pg/mL. The intra-assay coefficient of variation was 3.1%±2.2. The coefficient of variation threshold for re-measurement was 7.9%.
	<i>MCP-1</i> : MCP-1 was measured in serum (n=6771) and EDTA plasma (n=263) using a commercially available ELISA from R&D Systems (Cat. No. DCP00) <u>http://www.rndsystems.com/</u> . ¹⁵ Minimum detectable dose: <5.0 pg/mL; Standard curve range: 0–2000 pg/mL. The intra-assay coefficient of variation was 3.8%±3.3. The coefficient of variation threshold for re-measurement was 13.1%.
	<i>Myeloperoxidase</i> : Myeloperoxidase was measured in serum using a commercially available ELISA from Oxis (Cat. No. 21013) <u>http://www.oxis.com/</u> . Minimum detectable dose: 0.17 ng/mL; Standard curve range: 0–25 ng/mL. The intra-assay coefficient of variation was 3.0%±2.5. The coefficient of variation threshold for re-measurement was 11.5%.
MONICA/ KORA	A non-fasting venous blood sample was obtained from all study participants while sitting at baseline. The blood was centrifuged at 3,000 g for 10 minutes within 30 min after venipuncture, immediately aliquoted and frozen at –80°C until further analysis.
	C-reactive protein:

Study	Biomarker Measurement
	CRP was measured in serum by a high-sensitive immunoradiometric assay (IRMA) using a 5-point calibration with the WHO international reference standard 85/50637 (range, 0.05-10 mg/L). The intra- and inter-assay coefficients of variation of quality control test sera for CRP were 4.0 and 12.0%.
	Intercellular adhesion molecule-1: Intercellular adhesion molecule-1 was measured in serum using a commercially available ELISA (Diaclone, Besancon, France). The intra- and inter-assay coefficients of variation were 2.3 and 4.7%.
	Interferon-inducible protein-10: Interferon-inducible protein-10 was measured in serum by Luminex multiplex technology using a Luminex 100 analyser (Luminex Corporation, Austin, TX, USA). The intra- and inter-assay CV values of quality control test sera were <10.0 and 35.1%.
	Interleukin-6: Interleukin-6 was measured in serum using a commercially available ELISA (CLB, Amsterdam, Netherlands). The intra- and inter-assay coefficients of variation of quality control test sera for IL-6 <10.0 and <10.0%.
	<i>Interleukin-8:</i> Interleukin-8 was measured in serum by Luminex multiplex technology using a Luminex 100 analyser (Luminex Corporation, Austin, TX, USA). The intra- and inter-assay CV values of quality control test sera were <10.0 and 10.9%.
	Interleukin-18: Interleukin-18 was measured in serum by Luminex technology using an antibody pair and recombinant IL-18 protein from MBL (Nagoya, Japan). The lower detection limit of IL-18 in this assay was approximately 9.8 pg/mL. The intra- and inter-assay coefficients of variation of quality control test sera for IL-18 were <10.0 and <10.7%.
	Macrophage migration inhibitory factor: Macrophage migration inhibitory factor (MIF) was measured in serum with the Quantikine ELISA kit (R&D Systems, Wiesbaden, Germany). Intra- and inter-assay variability were determined using 3 controls with recombinant MIF and 3 sera in duplicates on 43 plates. Mean intra- and inter-assay CVs were 2.6% and 5.1%, respectively, for the recombinant controls, and 3.8% and 11.1%, respectively, for the sera.
	<i>MCP-1:</i> For the MONICA/KORA subcohort, MCP-1 was measured in serum by Luminex multiplex technology using a Luminex 100 analyser (Luminex Corporation, Austin, TX, USA). The intra- and inter-assay CV values of quality control test sera were <10.0 and 19.9%. For MONICA/KORA 500k study, MCP-1 was measured in plasma and serum by the Quantikine ELISA kit (R&D Systems, Wiesbaden, Germany). For plasma mean inter-assay coefficient of variation (CV) values was 8.9 %. For serum mean inter-assay coefficient of variation (CV) values was 8.2 %. The correlation coefficient between both assays was 0.579 for 1,623 subjects with higher concentrations for the Luminex assay as has been reported in the literature. ¹⁶
	Myeloperoxidase:

Study	Biomarker Measurement
	Myeloperoxidase was measured in serum using a commercially available ELISA from
	Mercodia (Cat. No. 10-1176-01) http://www.mercodia.com/. Minimum detectable dose:
	3 ng/mL; Standard curve range: $0 - 300$ ng/mL. 15% of the samples were run in
	duplicate. The inter-assay coefficient of variation was 10.3%.