

Table 1. Characteristics of Participants at Each Exam in the Beaver Dam Eye Study

Risk Factor	Exam 1 (1988-1990)		Exam 2 (1993-1995)		Exam 3 (1998-2000)		Exam 4 (2003-2005)		P value*
	N	Mean (SD) or %	N	Mean (SD) or %	N	Mean (SD) or %	N	Mean (SD) or %	
Age (years)	4518	61.4 (11.0)	3242	64.5 (10.1)	2349	67.6 (9.2)	1820	70.5 (8.3)	<.001
Sex (male)	4518	44.1	3242	44.1	2349	43.0	1820	42.3	0.26
Central retinal arteriolar equivalent (μm)	4505	149.9 (14.8)	3228	148.5 (15.0)	2340	148.2 (14.5)	1815	146.5 (14.8)	<.001
Central retinal venular equivalent (μm)	4518	230.3 (23.1)	3242	224.1 (22.6)	2349	225.4 (22.5)	1820	217.8 (22.5)	<.001
Nuclear cataract present†	4301	13.3	2982	4.9	2098	5.0	1532	2.4	<.001
History of cataract surgery	4518	3.5	3240	6.5	2349	9.9	1820	14.8	<.001
Refraction (diopters)	4512	0.3 (2.5)	3227	0.3 (2.4)	2340	0.2 (2.4)	1819	0.2 (2.3)	<.001
Height (inches)	4498	65.5 (3.7)	3204	65.3 (3.7)	2328	65.3 (3.7)	1810	64.9 (3.8)	<.001
Mean arterial blood pressure (mmHg)	4516	95.6 (12.2)	3227	93.8 (11.8)	2343	93.2 (11.5)	1819	92.6 (11.8)	<.001
Hypertension present	4513	49.3	3221	49.0	2345	56.3	1819	63.2	0.05
Intraocular pressure (mmHg)	4505	15.4 (3.3)	3219	15.4 (3.2)	2337	15.2 (3.0)	1813	15.1 (3.2)	<.001
Body mass index (kg/m ²)	4496	28.7 (5.4)	3195	29.5(5.5)	2326	29.9 (5.9)	1809	30.5 (6.0)	<.001
History of cardiovascular disease	4453	13.7	3225	13.4	2345	15.5	1819	15.9	<.001
Diabetes present	4501	7.2	3200	8.4	2318	9.6	1805	13.0	<.001
Glycosylated hemoglobin (%)	4501	6.0 (1.4)	3200	6.3 (1.4)	2314	6.3 (1.2)		Not measured	<.001
Total cholesterol (mg/dL)	4502	233.9 (40.0)	3211	239.7 (45.0)	2326	213.6 (40.2)		Not measured	<.001
High density lipoprotein cholesterol (mg/dL)	4499	52.2 (17.7)	3204	52.5 (16.4)	2273	50.7 (16.5)		Not measured	0.006
Taking nonsteroidal anti-inflammatory drugs	4518	32.7	3242	58.3	2349	44.9	1820	75.7	<.001
Taking aspirin	4514	21.8	3237	27.4	2345	39.2	1819	51.0	<.001
Current heavy drinking	4506	2.4	3233	2.0	2347	1.5	1819	0.8	0.01
Current smoking	4515	20.2	3235	15.1	2349	10.4	1820	9.3	<.001
Pack-years smoked‡	2487	31.7 (28.7)	1746	30.2 (27.3)	1268	28.3 (27.0)	937	27.2 (26.1)	<.001
Years since stopped smoking§	1593	16.1 (11.9)	1280	18.6 (12.8)	1027	22.2 (13.5)	784	25.6 (14.0)	<.001
Years smoked‡	2498	27.3 (14.6)	1755	28.0 (15.2)	1271	27.1 (15.6)	943	27.7 (15.9)	<.001
Chronic kidney disease present	4477	3.9	3165	3.8	2295	4.0	1486	6.0	0.008
Serum creatinine (mg/dL)	4477	0.9 (0.3)	3165	0.9 (0.3)	2295	0.9 (0.2)	1486	0.9 (0.3)	<.001
eGFR (mL/min/1.73 m ²)	4477	76.5 (18.2)	3165	75.5 (16.9)	2295	73.9 (16.7)	1486	73.2 (17.9)	<.001
White blood cell count (1000/μL)	4503	7.4 (2.1)	3210	7.4 (2.1)		Not measured		Not measured	
Serum 8-isoprostane (pg/mL)¶	1600	143.7 (87.6)	1154	132.4 (69.6)		Not measured		Not measured	
Serum sVCAM-1 (ng/mL)¶	1631	822.2 (293.8)	1158	852.1 (277.9)		Not measured		Not measured	
Serum C-reactive protein (mg/L)	4477	4.4 (9.7)	1158	4.6 (11.2)		Not measured		Not measured	

eGFR, estimated glomerular filtration rate; SD, standard deviation; sVCAM-1, soluble vascular cell adhesion molecule-1.

* Adjusted for age; † Presence defined as nuclear sclerosis greater than photograph standard 2; ‡ Measured in past and current smokers only; § Measured in past smokers only; || Measured only in a subset of participants at exam 2; ¶ Measured only in a subset of participants at exams 1 and 2.