Table S1. Vitamin D (25(OH)D) serum means, standard deviations (SD) and 95% confidence intervals by age classes and month of blood collection. Men 20–81 years old, MATISS study 1993–1996 [30,31]. All mean values are in bold.

	MEN														
	20–39					**40–59**					**60–81**				
Month of the Year	*n*	Mean	SD	95%CI		*n*	Mean	SD	95% CI		*n*	Mean	SD	95% CI	
J	37	**17.5**	6.7	15	20	45	**13.3**	6.5	11	15	49	**12.9**	5	11	14
F	46	**15.4**	6.5	13	17	85	**13.8**	8.3	12	16	87	**12.1**	5	11	13
M	2	**27.4**	14	-	-	30	**13.2**	6.6	-	-	9	**12.1**	8	-	-
A	25	**17.3**	7.8	-	-	16	**15.8**	5.5	-	-	19	**13.6**	6	-	-
M	2	**24.1**	7.1	-	-	2	**20.6**	8.6	-	-	serum sample not available				
J	1	**45.3**	-	-	-	1	**21**	-	-	-	2	**16.1**	9	-	-
J	14	**31.1**	8.5	-	-	15	**32.6**	11	-	-	19	**31.2**	10	-	-
A	105	**37.8**	13	35	40	43	**29.8**	7.3	28	32	13	**29.1**	10	-	-
S	56	**38.8**	13	35	42	70	**33.8**	11	31	36	15	**29.2**	6	-	-
O	50	**30.7**	8	28	33	188	**27**	8.2	26	28	73	**25.3**	9	23	28
N	4	**26.3**	3.9	-	-	22	**22.4**	9.4	-	-	22	**19.7**	7	-	-
D	4	**18.6**	7.6	-	-	2	**16.8**	3.8	-	-	1	**17.8**	-	-	-

Table S2. Vitamin D (25(OH)D) serum means. standard deviations (SD) and 95% confidence intervals by age classes and month of blood collection. Women 20–81 years old. MATISS study 1993–1996 [30,31]. All mean values are in bold.

| | WOMEN | | | | | | | | | | | | | | |
| | 20–39 years old | | | | | 40–59 years old | | | | | 60–81 years old | | | | |
Month of Year	*n*	Mean	SD	95% CI		*n*	Mean	SD	95% CI		*n*	Mean	SD	95% CI	
J	3	**22,6**	14,8	-	-	27	**12**	4,8	-	-	28	**8,6**	3,5	-	-
F	35	**14,2**	6,4	-	-	79	**11,6**	9	9,6	13,7	60	**7,6**	4,4	6,5	8,7
M	83	**13,9**	5,3	12,8	15	123	**11,1**	4,4	10,3	11,9	90	**8,6**	4,1	9,4	8,2
A	23	**14,2**	5,1	-	-	77	**13,9**	6,3	12,5	15,3	135	**11**	4,4	10	11,8
M	23	**17,3**	4,9	-	-	19	**14,5**	5,4	-	-	171	**13,1**	12	11	14,8
J	33	**20,9**	6,9	18,5	23,4	47	**16,7**	5,8	15	18,4	32	**14,9**	6,6	13	17,2
J	10	**21,4**	7	-	-	75	**21,8**	6,8	20,2	23,3	37	**18,1**	5,1	16	19,7
A	serum sample not available					serum sample not available					serum sample not available				
S	115	**34,2**	13	31,7	36,6	117	**26,6**	7,2	25,3	27,9	22	**27,1**	10	-	-
O	119	**28,9**	9,9	27,1	30,7	90	**21,9**	7,2	20,4	23,4	14	**21,1**	5,5	-	-
N	113	**21,1**	8	19,6	22,6	157	**18,7**	6,2	16,7	18,7	115	**13,9**	5,5	15	17,9
D	49	**16,4**	6,9	16,3	20,3	38	**15,3**	8,5	12,5	18	15	**12,5**	4,1	-	-

Table S3. Cardiovascular risk factors and conditions by Vitamin D (25(OH)D) status. Men 20–81 years old. MATISS study 1993–1996 [30,31].

	MEN																	
	Vitamin D <20 ng/ml					20≤ Vitamin D <30 ng/ml					Vitamin D ≥30 ng/ml				
Risk Factors	*n*	mean	SD	95% CI		*n*	mean	SD	95% CI		*n*	mean	SD	95% CI	
Vitamin D (ng/L)	477	12,6	4,2	12,2	13	354	25	2,8	24,7	25,3	343	39,3	9,2	38,3	40,3
Systolic blood pressure (mmHg)	477	138	19,9	136	140	354	138	17,8	136	140	343	135	16	134	137
Diastolic pressure (mmHg)	477	84,5	13,5	83,3	85,7	354	84,5	11,3	83,3	85,6	343	83,8	11,5	82,6	85
Body mass index (kg/m²)	474	26,9	3,7	26,6	27,3	354	27,1	3,4	26,8	27,5	342	26,6	3,1	26,2	26,9
Glycemia (mg/dL)	477	91	23,4	88,9	93,1	353	90	19,7	87,9	92,1	342	87,9	10,8	86,7	89
Total cholesterol (mg/dL)	477	221	45,4	217	225	353	217	42,2	213	222	342	209	46,7	204	214
HDL cholesterol (mg/dL)	477	45	12,4	43,9	46,1	353	45,2	12	44	46,5	342	47,7	11	46,5	48,8
Triglycerides (mg/dL)	477	175	116	164	185	353	185	152	170	201	342	163	163	146	181
Risk conditions	*n*	%		95% CI		*n*	%		95% CI		*n*	%		95% CI	
Current smoking	477	48		44	53	354	43		38	48	343	36		31	41
Overweight	474	47		42	51	354	58		53	63	342	52		47	58
Obesity	474	21		18	25	354	17		13	21	342	14		10	18
Hypertension	477	48		43	52	354	48		43	53	343	45		40	51
Hypercholesterolemia	477	32		28	36	354	33		28	38	343	21		17	26
Diabetes	477	6		3,9	8,1	353	4		2	6,1	342	1,9		0,5	3,3

Age-standardized mean and standard deviation using age distribution of the 1994 Latina 20–81 years old population (Italian National Institute of Statistics-ISTAT). SD: standard deviation; CI: confidence interval. Current smoking: consumption of at least one cigarette a day. Overweight: body mass index between 25 and 29 kg/m². Obesity: body mass index ≥30 kg/m². Hypertension: mean of two consecutive blood pressure values of systolic ≥140 mmHg or diastolic ≥90 mmHg or under regular pharmacological treatment. Hypercholesterolemia: total cholesterol ≥240 mg/dL (6.2 mmol/L) or under regular lipid lowering treatment. Diabetics: persons with blood glucose ≥126 mg/dl (7 mmol/L) or under regular antidiabetic treatment (oral hypoglycemic medication and/or insulin) or with self-reported diabetes at the time of the screening.

Table S4. Cardiovascular risk factors and conditions by Vitamin D (25(OH)D) status. Women 20–81 years old. MATISS study 1993–1996 [30,31].

				WOMEN										
	Vitamin D <20 ng/mL					20 ≤ Vitamin D < 30 ng/mL					Vitamin D ≥30 ng/mL			
Risk Factors	*n*	**mean**	**SD**	**95% CI**		*n*	**mean**	**SD**	**95% CI**		*n*	**mean**	**SD**	**95% CI**	
Vitamin D (ng/L)	1560	12.6	4.1	12.4	12.8	500	24.2	2.9	23.9	24.4	214	39.6	9.8	38.3	40.9
Systolic blood pressure (mmHg)	1558	136.8	20.4	135.8	137.8	500	134.5	18.5	132.9	136.1	214	129.6	13.2	127.8	131.4
Diastolic pressure (mmHg)	1558	82.9	12.7	82.3	83.5	500	82.2	11.7	81.2	83.3	214	79.1	10.5	77.7	80.6
Body mass index (kg/m^2)	1556	27.9	4.8	27.6	28.1	500	27.2	4.3	26.8	27.6	214	26.6	4.2	26.0	27.1
Glycemia (mg/dL)	1559	85.2	23.4	84.0	86.4	499	82.1	18.5	80.5	83.7	214	78.3	14.0	76.5	80.2
Total cholesterol (mg/dL)	1559	215.8	39.4	213.9	217.8	499	208.3	38.0	205.0	211.7	214	210.1	38.0	205.0	215.2
HDL cholesterol (mg/dL)	1559	53.3	12.2	52.7	53.9	499	54.6	11.2	53.7	55.6	214	58.3	14.0	56.4	60.1
Triglycerides (mg/dL)	1559	118.8	68.4	115.4	122.2	499	120.6	64.6	115.0	126.3	214	122.4	78.7	111.9	132.9
Risk conditions	*n*	**%**		**95% CI**		*n*	**%**		**95% CI**		*n*	**%**		**95% CI**	
Current smoking	1558	18		16	19	500	18		15	21	214	22		17	28
Overweight	1556	36		33	38	500	39		35	43	214	29		23	36
Obesity	1556	32		30	34	500	26		22	30	214	25		19	31
Hypertension	1558	46		44	49	500	44		39	48	214	38		31	44
Hypercholesterolemia	1560	28		26	31	500	21		17	25	214	27		21	33
Diabetes	1559	4.1		3.1	5.1	499	2.9		1.4	4.4	214	1.1		0.0	2.6

Age-standardized mean and standard deviation using age distribution of the 1994 Latina 20–81 years old population (Italian National Institute of Statistics-ISTAT). SD: standard deviation; CI: confidence interval. Current smoking: consumption of at least one cigarette a day. Overweight: body mass index between 25 and 29 kg/m^2. Obesity: body mass index ≥30 kg/m^2. Hypertension: mean of two consecutive blood pressure values of systolic ≥140 mmHg or diastolic ≥90 mmHg or under regular pharmacological treatment. Hypercholesterolemia: total cholesterol ≥240 mg/dL (6.2 mmol/L) or under regular lipid lowering treatment. Diabetics: persons with blood glucose ≥126 mg/dL (7 mmol/L) or under regular antidiabetic treatment (oral hypoglycemic medication and/or insulin) or with self-reported diabetes at time of the screening.