

**Table SI. Characteristics of individuals enrolled in the present study and the result of immunofluorescence**

patient	age	sex	site	sun-exposed	solar elastosis	Elastin	Fibrillin-1	LTBP-2	LTBP-4	Fibulin-4	Fibulin-5
No.1	83	F	face	+	+	D: thick & intense staining O: normal	D: normal O: normal	D: thick & intense staining O: normal	D: abolished O: abolished	D: thick & intense staining O: normal	D: thick & intense staining O: normal
No.2	83	M	face	+	+	D: thick & intense staining O: decreased	D: thick & intense staining O: decreased	D: thick & intense staining O: decreased	D: decreased O: normal	D: thick & intense staining O: decreased	D: thick & intense staining O: normal
No.3	76	M	face	+	+	D: thick & intense staining O: decreased	D: thick & intense staining O: normal	D: thick & intense staining O: normal	D: abolished O: decreased	D: thick & intense staining O: decreased	D: thick & intense staining O: decreased
No.4	73	F	face	+	+	D: thick & intense staining O: decreased	D: fragmented O: decreased	D: thick & intense staining O: decreased	D: abolished O: decreased	D: thick & intense staining O: decreased	D: thick & intense staining O: decreased
No.5	69	M	face	+	+	D: thick & intense staining O: decreased	D: thick & intense staining O: decreased	D: thick & intense staining O: normal	D: abolished O: abolished	D: thick & intense staining O: decreased	D: thick & intense staining O: decreased
No.6	76	M	face	+	+	D: thick & intense staining O: decreased	D: fragmented O: normal	D: thick & intense staining O: decreased	D: abolished O: abolished	D: thick & intense staining O: decreased	D: decreased O: abolished
No.7	73	M	face	+	+	D: thick & intense staining O: decreased	D: intense O: normal	D: thick & intense staining O: normal	D: abolished O: abolished	D: thick & intense staining O: decreased	D: decreased O: abolished
No.8	75	M	face	+	+	D: thick & intense staining O: decreased	D: normal O: normal	D: abolished O: abolished	D: abolished O: abolished	D: thick & intense staining O: decreased	D: decreased O: normal
No.9	82	M	neck	+	-	D: decreased & fragmented	D: decreased	D: decreased	D: abolished	D: abolished	D: abolished
No.10	79	M	face	+	-	D: normal O: decreased	D: normal O: decreased	D: normal O: decreased	D: abolished O: abolished	D: normal O: decreased	D: decreased O: decreased
No.11	77	F	face	+	-	D: fragmented O: normal	D: fragmented O: normal	D: decreased O: normal	D: abolished O: decreased	D: abolished O: abolished	D: decreased O: normal
No.12	76	F	face	+	-	D: normal	D: normal	D: decreased O: decreased	D: decreased O: decreased	D: decreased O: decreased	D: decreased O: normal
No.13	70	M	arm	+	-	D: fragmented O: normal	D: normal O: normal	D: decreased O: decreased	D: abolished O: decreased	D: decreased O: decreased	D: decreased O: normal
No.14	61	M	neck	+	-	D: decreased & fragmented O: normal	D: decreased O: normal	D: abolished O: decreased	D: abolished O: decreased	D: decreased O: decreased	D: abolished O: decreased
No.15	60	M	neck	+	-	D: normal O: normal	D: normal O: normal	D: decreased O: normal	D: abolished O: decreased	D: decreased O: decreased	D: decreased O: normal
No.16	95	F	abdomen	-	-	D: fragmented O: decreased	D: fragmented O: decreased	D: decreased O: decreased	D: abolished O: abolished	D: normal O: decreased	D: normal O: decreased
No.17	84	F	thigh	-	-	D: normal O: normal	D: normal O: normal	D: normal O: normal	D: abolished O: decreased	D: decreased O: decreased	D: abolished O: decreased
No.18	81	M	abdomen	-	-	D: normal O: normal	D: normal O: normal	D: decreased O: decreased	D: decreased O: normal	D: normal O: decreased	D: decreased O: normal
No.19	75	F	back	-	-	D: decreased & fragmented O: decreased	D: normal O: decreased	D: decreased O: decreased	D: abolished O: decreased	D: abolished O: abolished	D: decreased O: decreased
No.20	74	M	thigh	-	-	D: normal O: decreased	D: normal O: decreased	D: decreased O: decreased	D: decreased O: decreased	D: decreased O: decreased	D: normal O: decreased
No.21	73	M	inguinal	-	-	D: fragmented O: abolished	D: normal O: decreased	D: decreased O: abolished	D: decreased O: abolished	D: decreased O: abolished	D: decreased O: abolished
No.22	71	F	abdomen	-	-	D: normal O: normal	D: normal O: normal	D: decreased O: normal	D: decreased O: normal	D: normal O: normal	D: normal O: normal
No.23	67	F	abdomen	-	-	D: fragmented O: normal	D: decreased O: decreased	D: abolished O: abolished	D: abolished O: abolished	D: abolished O: abolished	D: normal O: decreased
No.24	63	F	back	-	-	D: normal O: normal	D: decreased O: normal	D: decreased O: decreased	D: decreased O: normal	D: decreased O: decreased	D: normal O: normal
No.25	76	F	knee	-	-	D: fragmented O: decreased	D: normal O: decreased	D: decreased O: decreased	D: decreased O: normal	D: abolished O: decreased	D: decreased O: normal
No.26	50	F	knee	-	-	D: fragmented O: normal	D: normal O: decreased	D: normal O: decreased	D: abolished O: abolished	D: normal O: decreased	D: normal O: normal
No.27	26	F	face	+	-	D: normal O: normal	D: normal O: normal	D: normal O: normal	D: normal O: normal	D: normal O: normal	D: normal O: normal
No.28	14	M	arm	+	-	D: normal O: normal	D: normal O: normal	D: normal O: normal	D: normal O: normal	D: normal O: normal	D: normal O: normal
No.29	14	M	elbow	+	-	D: normal O: decreased	D: normal O: decreased	D: normal O: normal	D: normal O: normal	D: normal O: decreased	D: normal O: normal
No.30	32	M	chest	-	-	D: normal O: normal	D: normal O: normal	D: decreased O: decreased	D: decreased O: normal	D: decreased O: decreased	D: normal O: normal
No.31	24	F	thigh	-	-	D: normal O: normal	D: normal O: normal	D: decreased O: decreased	D: abolished O: abolished	D: decreased O: decreased	D: fragmented O: decreased

**M: male, F: female, D: dermal elastic fiber, O: sub-epidermal oxytalan fiber, LTBP: latent TGF-β binding protein. Pink columns, blue columns, pale blue columns and yellow columns indicates thick and intense staining, abolished staining, decreased staining and fragmented staining, respectively.**