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**Title:** Silicosis caused by sandblasting in teflon coated pan manufacturing

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**Body:** Silicosis is an occupational disease of the lungs caused by inhalation of crystalline silica and is marked by fibrotic pulmonary reaction. Sandblasting has been commonly used during abrading of jeans, glass, and metal. We presented 17 silicosis cases occurring in teflon coated pan manufacturing. Symptoms questionnaire, pulmonary function tests, carbon monoxide diffusion test, and thorax HRCT were done. All of employees are male and mean age was 28.8±5.2 (18-41). The mean duration of working period for this job was 24.8±15.4 (9-60) months.

Table 1. Silicosis demographics

Case	Age	Smoking (pack-year)	Employment time (months)	Symptoms	Silicosis type	Current status
1	23	2	25	C-D	AS	NCS
2	32	-	60	S	CS	NCS
3	30	14	13	C	CS	NCS
4	27	-	35	NS	CS	NCS
5	29	-	14	C-D-S	ST	Ex
6	26	4	27	C-D	AS	Ex
7	27	5	11	C-D	AS	Ex
8	28	-	47	C-D	ACS	RF
9	25	8	21	C	AS	RF
10	41	-	45	NS	CS	NCS
11	18	-	9	D	AS	Ex
12	24	5	15	C-D	AS	Ex
13	30	9	30	CP-D	ACS	NCS
14	29	8	36	NS	ACS	NCS
15	35	11	10	C	CS	NCS

16	34	-	9	CP-D	AS	RF
17	31	8	14	D	CS	NCS

NS=No symptom, D= Dispnoea, C=Cough, S=Sputum, CP=Chest pain, AS=Acute silicosis, ACS=Accelerated silicosis, CS=Classical silicosis, ST=Silicotuberculosis, NCS=No clinical symptoms, RF=Respiratory failure.

Clinically total 17 cases was evaluated, 7 cases as acute silicosis(AS), 6 cases as classic silicosis, 3 cases as accelerated silicosis (ACS) and one case as silicotuberculosis (ST). Four cases of AS and one ST case were died during follow-up. Acute respiratory failure was present in one AS case and one ACS case. Clinical follow-up of other patients has been continued. In view of thie report, sandblasting of teflon pan manufacturing cause silicosis. These clinical type commanly acute form and mortaly was high.