

Table S1 Disability allowance for coal worker pneumoconiosis losses

Disability level	Number of cases (person)	Average compensation time (months)	Monthly average salary (yuan)	Compensation standards	Disability allowance (yuan)
Level 1	51	147.68	9,822.33	0.90	66,580,781.77
Level 2	77	119.52	9,822.33	0.85	76,836,001.50
Level 3	248	125.24	9,822.33	0.80	244,063,998.58
Level 4	514	130.12	9,822.33	0.75	492,713,414.41
Level 5	512	142.30	9,822.33	0.70	500,957,924.61
Level 6	980	132.33	9,822.33	0.60	764,252,552.34
Total	2,382	–	–	–	2,145,404,673.21

Table S2 One-time disability allowance for coal worker pneumoconiosis losses

Disability level	Number of cases (person)	Monthly average salary (yuan)	Compensation time (months)	Compensation amount (yuan)
Level 1	86	9,822.33	27	22,807,450.26
Level 2	177	9,822.33	25	43,463,810.25
Level 3	476	9,822.33	23	107,534,868.84
Level 4	914	9,822.33	21	188,529,802.02
Level 5	843	9,822.33	18	149,044,035.42
Level 6	1,364	9,822.33	16	214,362,529.92
Level 7	1,160	9,822.33	13	148,120,736.40
Total	5,020	–	–	873,863,233.11

Table S3 Life care expenses for coal worker pneumoconiosis losses

Disability level	Number of cases (person)	Average compensation time (years)	Annual average salary (yuan)	Compensation standards (%)	Compensation amount (yuan)
Level 1	86	27.96	106,034	50	127,482,557.52
Level 2	177	23.90	106,034	40	179,422,252.08
Level 3	476	25.65	106,034	30	388,383,455.88
Level 4	914	26.84	106,034	30	780,360,191.95
Total	1,653	–	–	–	1,475,648,457.43

Table S4 Direct economic losses of coal worker pneumoconiosis patients

Project	Loss of funds (yuan)	Composition ratio (%)
medical expense	1,398,993,065.05	22.93
Meal allowance	35,895,309.20	0.59
Disability Benefits	2,145,404,673.21	35.17
One-time disability allowance	873,863,233.11	14.33
Living care expenses	1,475,648,457.43	24.19
Funeral allowance	98,399,552.00	1.61
Pension for supporting relatives	71,858,226.20	1.18
Total	6,100,062,516.20	100.00

Table S5 Social productivity loss caused by coal worker pneumoconiosis

Age group (years)	Number of cases (person)	Productivity weight	GDP (yuan)	DALY (person year)	Social productivity loss (yuan)
15~	1,002	0.75	137,039	10,946.96	1,125,120,338.58
45~	2,421	0.8	137,039	20,238.99	2,218,824,760.49
60~	1,597	0.1	137,039	8,524.52	116,819,169.63
Total	5,020	—	—	39,710.47	3,460,764,268.70

GDP, per capita gross domestic product; DALY, disability-adjusted life years.

Table S6 Indirect economic losses of coal worker pneumoconiosis patients

Project	Loss of funds (yuan)	Composition ratio (%)
Loss of social productivity	3,460,764,268.70	90.75
Transportation expenses for accompanying family members	9,834,331.29	0.26
Social productivity loss of accompanying family members	336,921,731.33	8.83
Supplementary training expenses for new employees	6,039,556.32	0.16
Total	3,813,559,887.64	100

Table S7 Total economic losses of coal worker pneumoconiosis patients

Project	Loss of funds (yuan)	Composition ratio (%)
Direct economic losses	6,100,062,516.21	61.53
Indirect economic losses	3,813,559,887.64	38.47
Total	9,913,622,403.85	100