Supplementary Material

Table S1. Comorbidities according to STAR categories

One-Way ANOVA (Welch's)

	F	df1	df2	p
Charlson	1.80	3	53.2	0.159

Group Descriptives

	STAR	N	Mean	SD	SE
Charlson	**1**	18	2.67	1.28	0.302
	2	37	2.03	1.09	0.180
	3	30	1.83	1.02	0.186
	4	31	2.06	1.09	0.196

Ondeck NT, Bohl DD, Bovonratwet P, et al. Discriminative ability of commonly used indices to predict adverse outcomes after poster lumbar fusion: a comparison of demographics, ASA, the modified Charlson Comorbidity Index, and the modified Frailty Index. *Spine J*. 2018; 18: 44-52.

Figure S1. Survival analysis of GOLD classification.

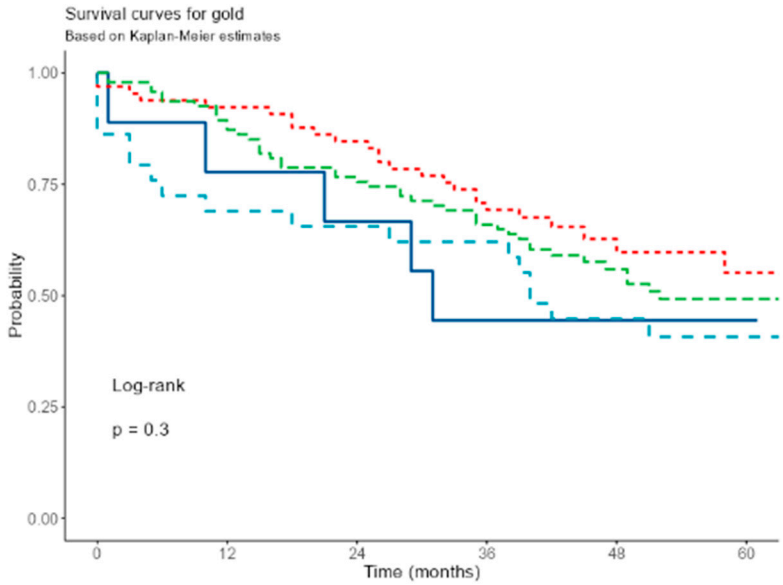


Table S2. Causes of mortality according to STAR categories

	Respiratory causes	Non-respiratory causes
STAR 1	COPD, 5 Lung cancer, 1	Other cancers, 2 Heart failure, 3 Renal failure, 2 Infection, 1
STAR 2	COPD, 8 Lung cancer, 4 Pneumonia, 2	Unknown, 1 Other cancers, 1 Heart failure, 4 Infection, 3 Stroke, 1
STAR 3	COPD, 16 Lung cancer, 1 Pneumonia, 3	Unknown, 1 Other cancers, 1 Coronary heart disease, 2 Renal failure, 1 Intestinal ischemia, 1
STAR 4	COPD, 16 Lung cancer, 4 Pneumonia, 2	Heart failure, 2 Coronary heart disease, 1 Stroke, 1