Patient reported Physical Function (PF) predicts long-term survival in early-stage NSCLC surgical patients. (ID 5183)

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BACKGROUND

Additional prognostic factors such as Quality of Life (QoL) may benefit further stratification of risk for an individualized treatment allocation. Our study aimed to assess the association between preoperative QoL and long-term survival in patients undergoing surgical resection for pathological stage I non-small cell lung cancer (NSCLC).¹

METHODS

A retrospective analysis conducted on 388 consecutive patients who completed the QoL assessment through the European Organisation for Research and Treatment of Cancer Quality of Life Questionnaire C30 and lung cancer specific module (LC13), prior to anatomical lung resection for early-stage NSCLC (2014-2018) (Table 1).

The Physical Functioning Scale (PF) – EORTC QLQ-C30		
Questions/Items	Not at all	A litt
Do you have any trouble strenuous activities like carrying a heavy shopping bag or a suitcase?	1	
Do you have any trouble taking a long walk?	1	
Do you have any trouble taking a short walk outside of the house?	1	
Do you need to stay in bed or a chair during the day?	1	
Do you need help with eating, dressing, washing yourself or use the toilet?	1	

Table 1: The Physical functioning scale extracted from the EORTC QLQ-C30 questionnaire completed by patients at follow-up.

Median follow-up was 1685 days. Survival distribution was cancer-specific survival.





A 70-year-old male patient with a BMI of 27 and a pT1N0 stage would have an estimated 5-year overall survival of 65%, 50% and 35% corresponding to a baseline Physical Functioning of 80, 50 and 30, respectively. Interestingly, the same theoretical patient with positive nodal status would have 50% 5-year survival with a good baseline functional status PF=80. Competing regression analysis found that worse baseline lung cancer-specific dyspnoea was significantly associated with a poorer cancer-specific survival (p=0.03) along with low Body Mass Index (p=0.01), high Performance Status (p=0.03) and lymph node involvement (p=0.01).

CONCLUSION

better patient-reported Physical Function score was associated with longer overall survival after curative resection for cancer. Our study highlights the significance of routinely collecting QoL data in clinical practice to aid preoperative decision making in early-stage NSCLC

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- The authors of this poster presentation have no conflict of interest to declare.

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