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Topic: Self assessment tool for early lung cancer diagnosis

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Lung cancer is accounting for approximately 1,38 milion deaths per year worldwide. Most of the lung cancer cases are diagnosed in late stage, when the survival rate is only 3%. On contrary only 15% of carcinomas are found in early stage when the survival rate reaches about 53%. An effective screening test has long been desired for early detection with the goal of reducing mortality from lung cancer. In many cases lung cancer is detected as part of pre-surgical tests for other diagnosis and only thanks to that, patients can be treated on time. Despite rapid development of medicine, the ratio of diagnosed carcinomas in III. and IV. stage vs. I. and II. stage is consistently not improving and therefore we would like to pilot the effect of modern communication technologies on early detection of lung cancer. The lung screen application represents self assessment tool, which will guide the patient to the nearest pneumological center based on the results of specific set of questions indicating the level of risk of having the lung cancer. Our desire is to increase the number of operable patients as it happened in Hungary, where the application was developer by Dr. Zalan Szanto and successfully used since 2015 with very promising results.

Lung cancer: The deadliest of all cancers

Lung cancer is the **biggest cancer killer in Europe** accounting for approximately

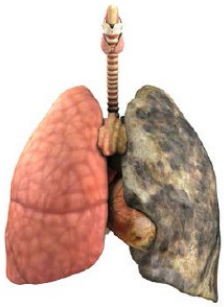
20%
of total cancer deaths

80%
of patients with lung cancer die within one year of diagnosis

Lung cancer

Survival of lung cancer is amongst the lowest of all cancer survival rates and has not shown much improvement since the 1970s

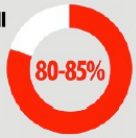
Lung cancer has the highest economic burden of all cancer types



Over
80%
of lung cancers are caused by smoking

Lung cancer has two main types:

Non-small cell lung cancer (NSCLC)



Small cell lung cancer (SCLC) is the more aggressive form

Only **15%** of lung cancer cases are found in early stages

Where the survival rate is **53.5%**

Most lung cancer stages are not diagnosed until late stages, where survival rate is **3.9%**

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