



Lung cancer screening.....a long story:

- 1970: Chest XRay and sputum
- 1990: observational studies with low dose CT scan
- 2000: ELCAP study pubblication → superiority of CT scan compare to chest Xray



PILOT STUDIES

Table 1 Results of selected modern lung cancer screening trials

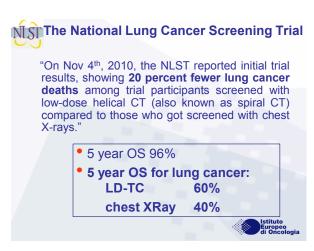
Study	Started	Ν°	Age	Daselile LDC1 screen			Over all (with incidence screens)				
				Percentage abnormal [®]	LC	Percentage	Nº of rounds	Total LC	Percentage	Stage I	Percentage
Shinshu Uni [8]	1996	5483	40-74	5	23	0.42	3	63	1.1	51	81
Hitachi [9]	1998	7965	50-69	26	36	0.44	2	40	0.05	31	78
Milan [12]	2000	1035	50-84	21	11	1.06	2	22	2.1	16	73
Pamplona [13]	2000	911	>40	48	12	1.32	2	14	1.5	13	93
Mayo Clinic [14]	1998	1520	50-85	51	27	1.78	5	66	4.5	36	55
I-ELCAP [10]	1994	31567	40-85	13	405	41.28	2	484	1.5	412	485
Milan Uni [15]	2004	5189	>50	10	55	1.04	2	92	1.8	61	66
PLuSS [16]	2002	3642	50-79	40	53	1.45	2	80	2.2	40	50
Toronto [17]	2003	3352	50-83	18	56	1.67	2	65	1.9	42	65

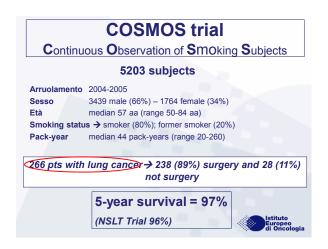
LC, patients diagnosed with lung cancer; LDCT, low-dose spiral computed tomography. Total lung cancer, all cases detected throughout the study period, including interval cases.

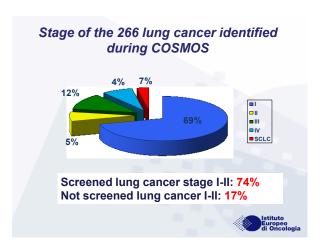
Many studies have already demonstrated how CT scan is high sensitive to diagnose small nodules (few mm in diameter), with low radiation exposure, limited costs, few seconds of execution and no contrast medium.

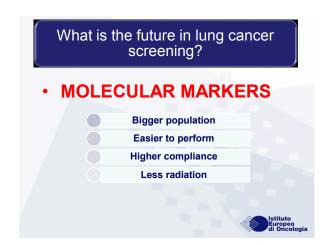


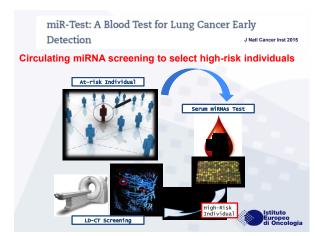


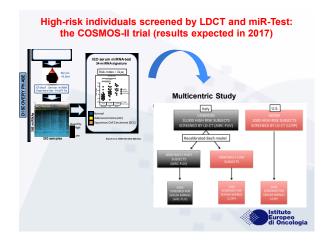












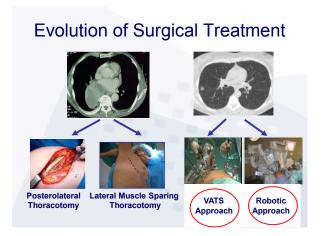


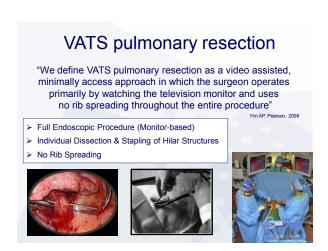


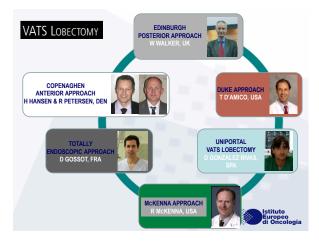


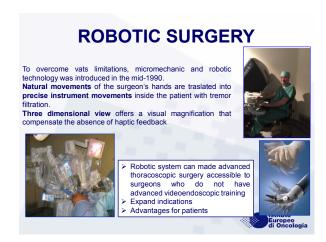
Screening programs and to the early detection of lung cancer leads to minimally invasive surgery











IEO EXPERIEN 2007-2016	ICE
Pulmonary resection	392
Mediastinal resection	30
 thymomas 	14
thymic carcinomas	3
• Other	13
• esophageal resection	1
	Istituto Europeo di Oncologia







