



## Lung Cancer Screening Pilot in Israel

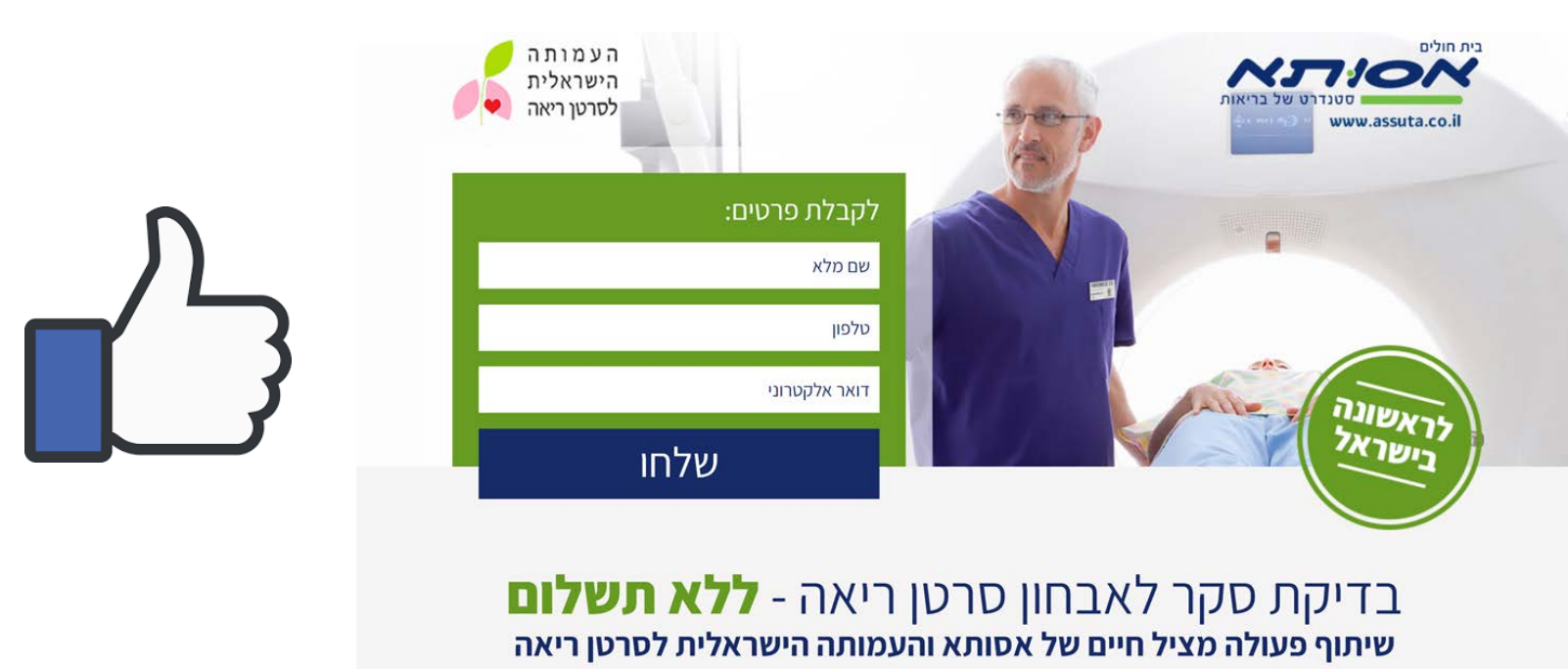
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### Background

- **The Israeli Lung Cancer Foundation (ILCF)**, was founded on April 2014, as an initiative of a caregiver and an oncologist
- Besides other activities, the patient organization promotes and submits LDCT screening program technology to the health basket since 2015
- One of the reasons for reject was, that a pilot is needed
- ILCF with ASSUTA Medical Centers set up a screening program pilot, intended to screen 100 people, free of charge

### Call for Screening



A call for free lung cancer screening was advertised and promoted on FACEBOOK social media  
In the open pages of Assuta Medical Cenetrs and The Israeli Lung Cancer Foundatoin (ILCF)

[www.facebook.com/AssutaHospitals/](https://www.facebook.com/AssutaHospitals/)  
[www.facebook.com/ilcfil/](https://www.facebook.com/ilcfil/)

### Program details

**A**

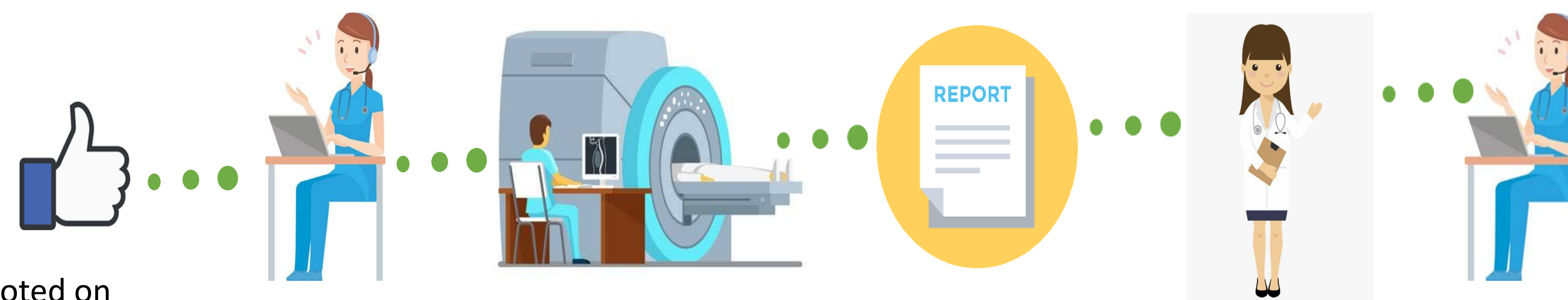
- People who enlisted left details on a digital form via facebook
- The coordinating nurse called each candidate and verified eligibility for screening according to:
- 55 to 74 years old
- A smoker or a person who quit smoking less than 15 years ago
- Have a smoking history of at least 30 pack-years

**B**

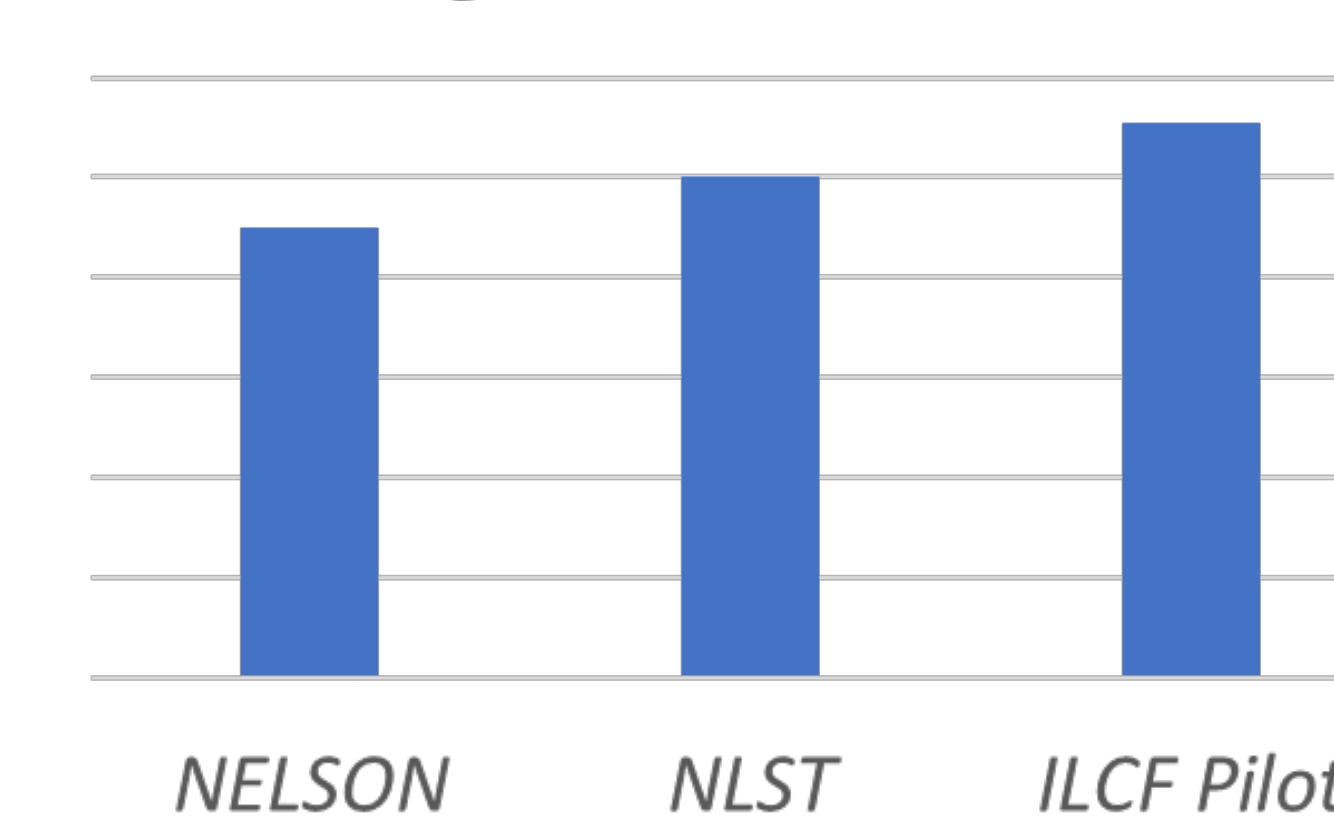
- LDCT was scheduled and performed
- CT reporting and management was performed using LUNGRADS by a trained radiologist physician
- A lung cancer oncologist reviewed the results and wrote recommendations
- The coordinating nurse called and explained the results and recommendations to each screened patient

### Results

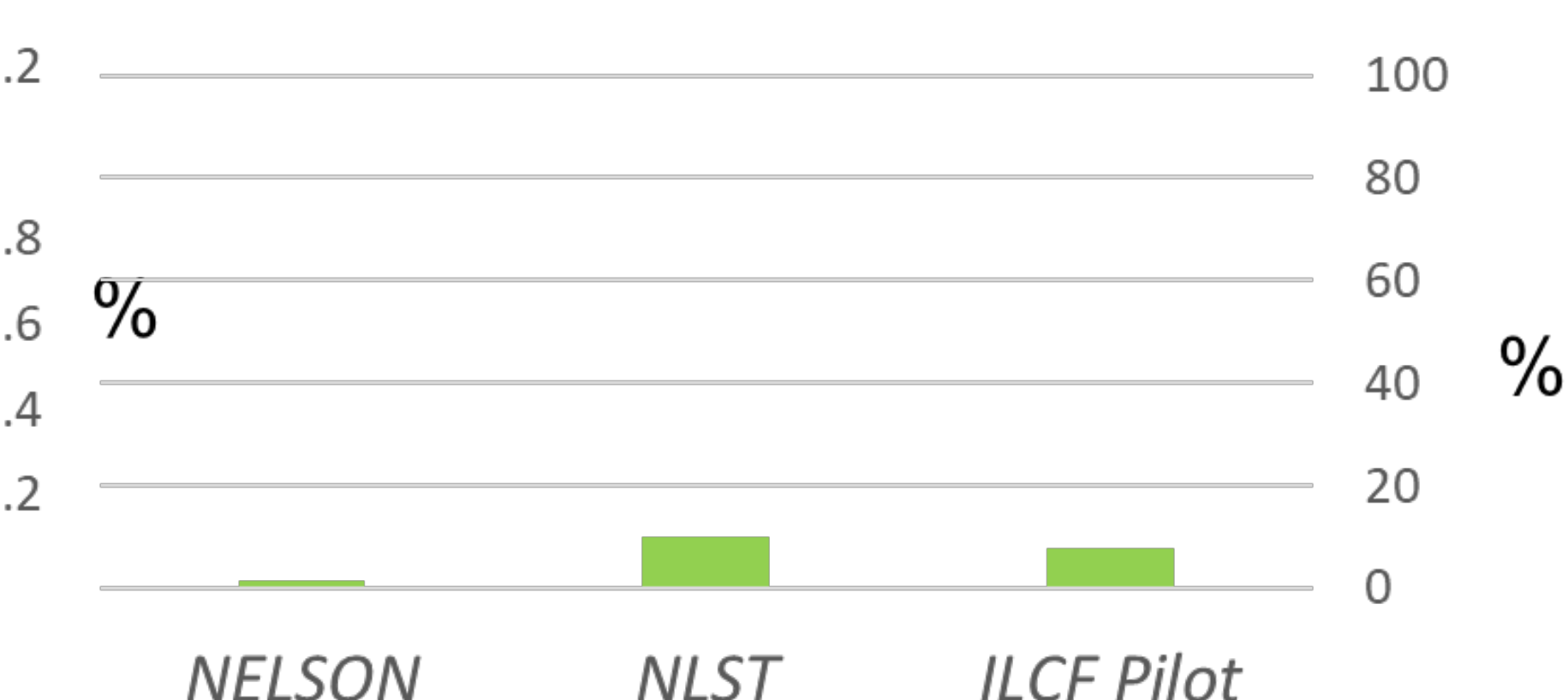
Participants		90			
Age		62.9 +/- 5			
Gender	Men	55%			
	Women	45%			
Year pack		45 +/- 18			
nodules	Negative	33%	Size	0	
	Positive	66%		3.25 mm +/- 1.8	
LungRad 3		4 participants	Next steps	Follow -up	
LungRad 4		4 participants	Next Steps	1. Under investigation	No LC
				1. PETCT	No LC
				1. Bronchoscopy	No LC
				1. PETCT, BIOPSY	Stage 1 LC
Lung Cancer detection rate					1.11%
False Positive					7.7%



Lung Cancer detection rate



False Positive



### Conclusions

The ILCF-A trial provided evidence that LC Screening in Israel is beneficial. In addition, raising awareness and calling the public to come get screened via digital media has an impact.. Despite the limitation of this small study, results of cancer detection rate and FP rates were comparable with NLST and NELSON studies. Although the smoking rate of women in Israel is half then that of men (12% compared with 27%), their responsiveness for undergoing screening was as high.

Based on this promising evidence, Lung Cancer National screening program in Israel is recommended and feasible.