## The FITNESS Study: An Innovative Approach to Assessing Disability in Older Adults with Lung Cancer

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#### **Disclosures**

# I do not have any relevant financial relationships to disclose.



## Background

- Disability: Impairment in functional status (ADLs, IADLs, mobility)
- Associated with worse symptoms, lower quality of life, more hospital expenses
- Most older adults with cancer: preventing disability > prolonged survival
- 32% of patients with cancer: functional disability at baseline<sup>1</sup>
- Lack of research
- Present study examines feasibility of new approach to assess disability in older adults with lung cancer

<sup>1</sup>Hoppe S, Rainfray M, Fonck M, *et al.* Functional decline in older patients with cancer receiving first-line chemotherapy. *J Clin Oncol.* 2013;**31**: 3877-3882.



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### Methods

- N=50 adults age  $\geq 60$  years receiving treatment for NSCLC
- Demographic and disease-related variables
- Multifactorial assessment
  - --Cancer & Aging Research Group Comp. Geriatric Assessment
  - --Short Physical Performance Battery
  - --Timed Up and Go test
  - --Functional assessment measure: patient-reported ADLs, IADLs --PROMIS 10-item scale (QoL)



#### Key Results: Feasibility, Descriptives

- 75 approached, 15 declined, 60 (80%) consented
- After consent: 10 dropped out
- N=50, Age M=71.7 years (SD=6.5, range=60-88 years)

Variable	N	%
Sex (Male)	28	56
Race (Caucasian)	46	92
Adenocarcinoma	34	68
Squamous cell carcinoma	12	24
Stage III/IV disease	44	88

First-Line Treatment	N	%
Chemotherapy	22	44
Immunotherapy	13	26
Combination	11	22
Oral targeted agent	3	6



#### Key Results: Multifactorial Assessment

- Average CARG-CGA score 7.54 (SD=2.62, range=2-12) Moderate risk of chemo toxicity
- Average SPPB score 8.67 (SD=3.20, range=0-12) One or more mobility limitations
- Timed Up and Go test 24 (48%) no fall risk (<10 sec) 18 (38%) mild fall risk (10-20 sec)

- 82% independence with ADLs (dress, toilet, walk, eat)
- M baseline disability score 2.67 (SD=2.88, range=1-13) Mild disability in usual activities, selfcare, and/or mobility
- Average PROMIS-10 score 34.6 (SD=7.02, range=19-49)
   1.5 standard deviations below quality of life of general population



### **Take-Home Messages**

- FITNESS study: feasible, multifactorial approach

   -To measure baseline disability in older adults with
   advanced lung cancer
- Could transform SOC for controlling disability, promoting resilience
- Allows providers to identify patients who are:

   -Presently more disabled
   -At risk for <u>future</u> disability, falls, chemotherapy toxicity



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