INTERNATIONAL ASSOCIATION FOR THE STUDY OF LUNG CANCER



IASLC 19th World Conference on Lung Cancer

September 23–26, 2018 Toronto, Canada

WCLC2018.IASLC.ORG

#WCLC2018

Line of Therapy and Patient Preferences Treating Lung Cancer: *A Discrete-Choice Experiment*

Andrea Ferris, John F.P. Bridges, Upal Basu Roy, Ellen Janssen







INTERNATIONAL ASSOCIATION FOR THE STUDY OF LUNG CANCER

IASLC 19th World Conference on Lung Cancer

September 23–26, 2018 Toronto, Canada

WCLC2018.IASLC.ORG

#WCLC2018

I HAVE NOTHING TO DISCLOSE

- •Dr. John Bridges was funded by LUNGevity Foundation and Astra Zeneca
- •Dr. Ellen Janssen is an employee of ICON plc
- •The study was generously funded by Celgene, Merck, and Boehringer Ingelheim



PROJECT TRANSFORM

DOCUMENTING PATIENT WORRIES THROUGH A
PATIENT EXPERIENCE SURVEY

September 10, 2019

THE NEW LUNG CANCER PARADIGM

What do lung cancer <u>patients and caregivers</u> want from treatments?

- Longer survival? Better quality of life?
- Fewer side effects? Which ones?
- Longer duration of progression-free survival?

ATTRIBUTES AND LEVELS FOR PATIENT PREFERENCE SURVEY WERE CLEARLY DEFINED

Attribute	Level	Attribute	Level
Progression Free Survival (PFS)	12 months 18 months 24 months	Long-term side effects	None - No long-term side effects
			Mild - Noticeable, do not affect your daily activities, do not require medical care
Short-term side effects	daily activities , does not require medical care Risk of LATE-onse		Moderate - Uncomfortable, affect your daily activities a little, require medical care that you can take at home
		Risk of LATE-onset side effects	10% (1 out of 10) will experience late-onset effects
	Moderate - Uncomfortable, affects daily activities, requires medical care that you can take at home Severe - Life-threatening, requires medical care in the hospital		20% (2 out of 10) will experience late-onset effects
			30% (3 out of 10) will experience late-onset effects
		Mode of administration	Daily pills that you can take any time during the day
			Daily pills that you need to take 1 hour before eating or 2 hours after eating
			Infusions in the hospital or clinic every 3 weeks

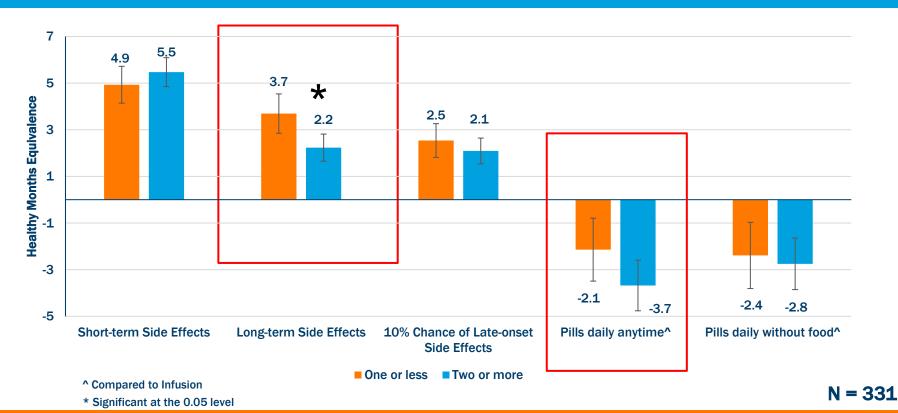
USING DISCRETE CHOICE EXPERIMENTS TO QUANTIFY PATIENT PREFERENCES

Question:

Consider that you are newly diagnosed with lung cancer. You are thinking about taking one of these drugs to treat your lung cancer. Which drug would you prefer?

Attributes	Drug A	Drug B			
Progression free survival	18 months	24 months			
Short-term side effects	Moderate	Severe			
Long-term side effects	Mild	None			
Risk of Late-onset effects	10% (10 out of 100)	30% (30 out of 100)			
Mode of administration	Pills daily without food	Pills daily anytime			
	Drug A	Drug B			
Which drug do you prefer?					

LINES OF THERAPY (LOT) INFLUENCE PATIENT PREFERENCES



© LUNGevity Foundation. All rights reserved.

www.LUNGevity.org

CONCLUSIONS

 Various factors (such as availability of a targeted therapy, being NED, line of therapy) may influence patient preferences

 Values placed by patients on different attributes should be taken into consideration during clinical practice and drug discovery

USE OF PATIENT PREFERENCE DATA

 Patient preferences should be incorporated into shared decision making models of clinical medicine and patientfriendly drug labels

 Preferences may help decide novel regulatory endpoints for clinical trials when overall survival differences between drugs may not be large