



# NATIONAL PROGRAM FOR RESPIRATORY RESEARCH

*'Een Leven Lang Longen'*

*'Lungs Lasting a Lifetime'*

# Why is a National Program for Respiratory Research needed?



- An increasing number of people die due to a lung disease
- Lung diseases can not be cured and have a huge personal, societal and economic impact
- Therefore, attention is crucial and breakthroughs in research are needed

# 10 most important causes of death worldwide in 2011



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## Pulmonary diseases

Ischaemic heart disease

CVA

Pulmonary infections

COPD

Diarrhea

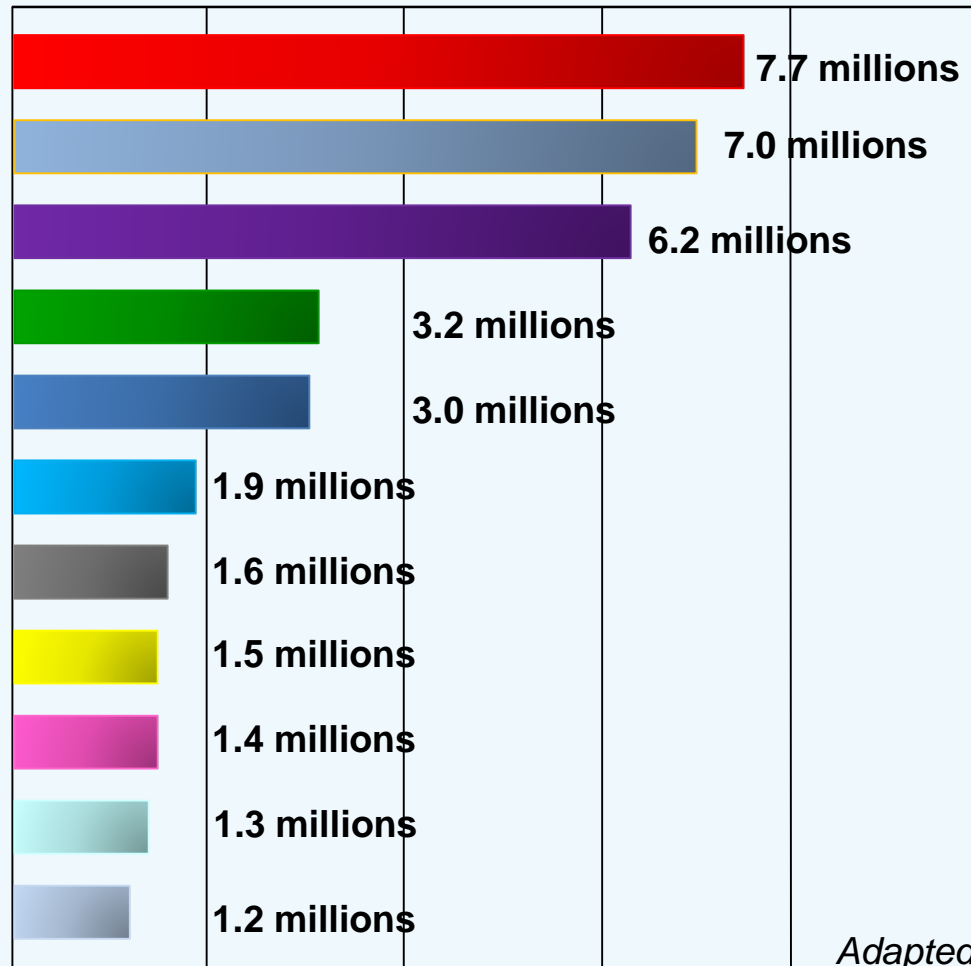
HIV/AIDS

Lung cancer

Diabetes

Trauma

Preterm birth



Adapted from WHO

# On the road to tomorrow's science: Success depends on collaboration!



# Bottom-up:12 transdisciplinary teams

SWOT and future perspectives in 12 respiratory disease areas  
(opportunities in- and outside respiratory field)



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Allergy  
Asthma  
BPD/PCD  
COPD  
CF  
ILD  
Infections  
Intensive Care  
Lung transplantation  
Lung cancer  
Pulmonary hypertension  
Sleep apnea



# Collaboration between research fields



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	Allergy	Asthma	BPD/ (PCD)	COPD	CF	ILD	Infect	IC	CA	LTX	PH	Sleep Apnea
Allergy		X	X				X					
Asthma	X		X	X			X					
BPD/ (PCD)				X	(X)		(X)			X	X	
COPD	X	X	X			X	X		X	X		
CF		X		X		X	X					
ILD		X		X	X				X	X	X	
Infection			(X)	X	X			X		X		
IC		X		X		X	X				X	
CA				X		X						
LTX				X	X	X					X	
PH			X	X	X	X				X		
Sleep		X	X	X				X				

# International scores

4-5

3.5-4



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	Allergy	Asthma	BPD/ PCD	COPD	CF	ILD	Inf	IC	LTX	LCa	PH	Sleep Apnea
Phenotyping and Severity												
Biological mechanisms												
Environment and lifestyle												
Development and ageing												
Prevention												
Diagnosis monitoring												
Therapy medical												
Therapy non- medical												
Implementation and care												

# International scores



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	Allergy	Asthma	BPD/ PCD	COPD	CF	ILD	Inf	IC	LTX	LCa	PH	Sleep Apnea
<b>Biobanking</b>												
<b>Data management Clinical studies</b>												

4-5

3.5-4



# Nationwide discussions with organisations



## 6 Taskforces:

[www.nationaalprogrammalongonderzoek.nl](http://www.nationaalprogrammalongonderzoek.nl)



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# 'Lungs Lasting a Lifetime' conference



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# 'Lungs Lasting a Lifetime' conference

*First 1.5 days*

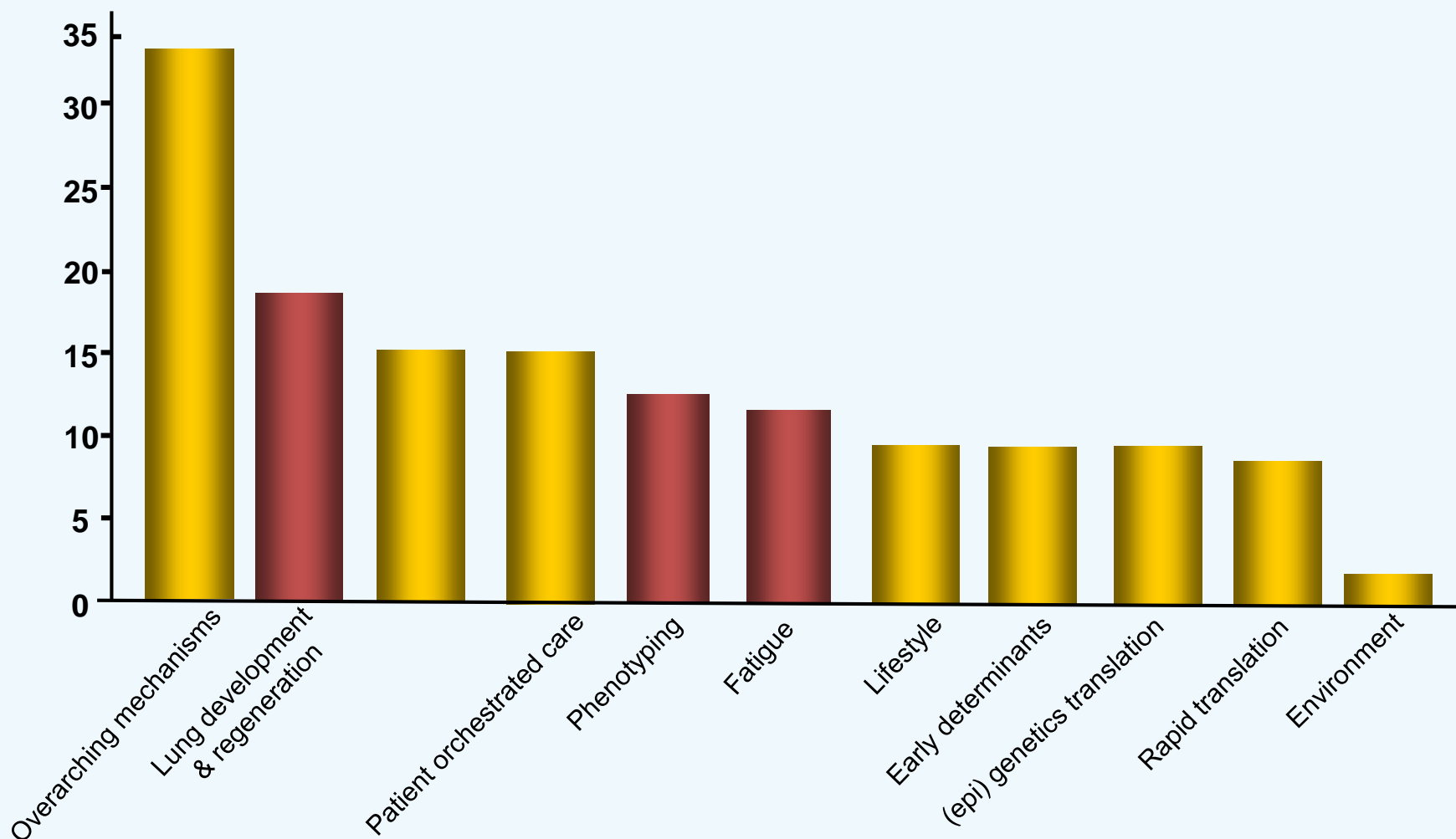


**45 Participants:** patients and lung researchers  
(basic and applied research)

1. What are the main questions regarding lung health
2. Which questions can provide solutions for multiple diseases
3. As a consequence, which areas of research should be focused on during the coming 5-10 years?

# Results by patients and researchers

*First 1.5 days*



# 'Lungs Lasting a Lifetime' conference

*Third day*



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## Representatives from:

European Respiratory Society

Dutch Royal Academy of Sciences (KNAW)

Lung Alliance Netherlands

Lung Foundation Netherlands

Dutch University Organisation

Dutch public-private Topsectors in research

Zon Mw

Nefarma ( association for innovative medicines)

Scientific and professional organisations

Basic researchers

Clinical Researchers

International experts

# Five priorities for research and relevant impact

## 1 Overarching disease mechanisms

*New therapies by cross-talk in research*

## 2 Phenotyping and monitoring

*Patient-tailored diagnosis and treatment*

## 3 Regenerative medicine

*Reduction of tissue damage, cure*

## 4 Reduction of fatigue with lung diseases

*Reduced burden of disease,*

*Increased societal participation*

## 5 Early determinants and detection

*Sustainable health, prevention and evidence for lifestyle recommendations*

# 6 Taskforces and 5 Priorities to *strengthen visibility, quality of research and effective collaboration*







- EUROPE
- GOVERNMENT NL
- FOUNDATIONS NL
- PRIVATE PARTIES
- PROFESSIONALS NL
- NATIONAL RESEARCH AGENDA
- MAIN OBJECTIVES LUNG RESEARCH
- TASKFORCES

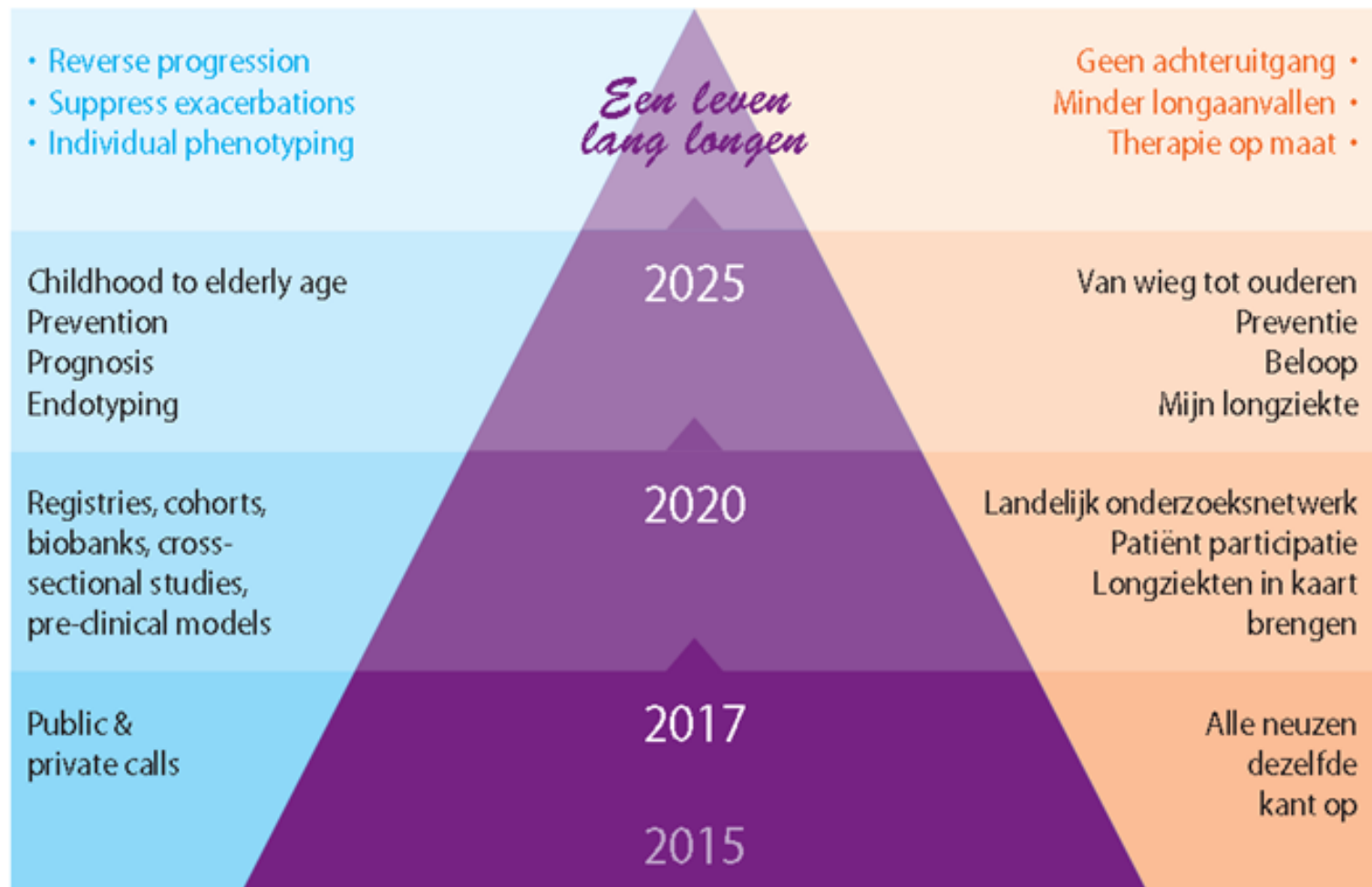


# Nationaal Programma Longonderzoek

## Een Leven Lang Longen

Professionals | UMCs, STZ, research institutes

Patiënten & publiek



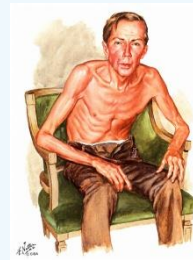


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# Just a question

How many people die within 2 years after hospitalization due to a:

- Heart attack?
- Lung attack?





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# Just a question

How many people die within 2 years after hospitalization due to a:

- Heart attack? **8-15%**
- Lung attack? **35-50%**

