

Machine learning–based algorithm enables  
the exclusion of obstructive coronary artery  
disease in the patients who underwent  
coronary artery calcium scoring

Jan Głowacki

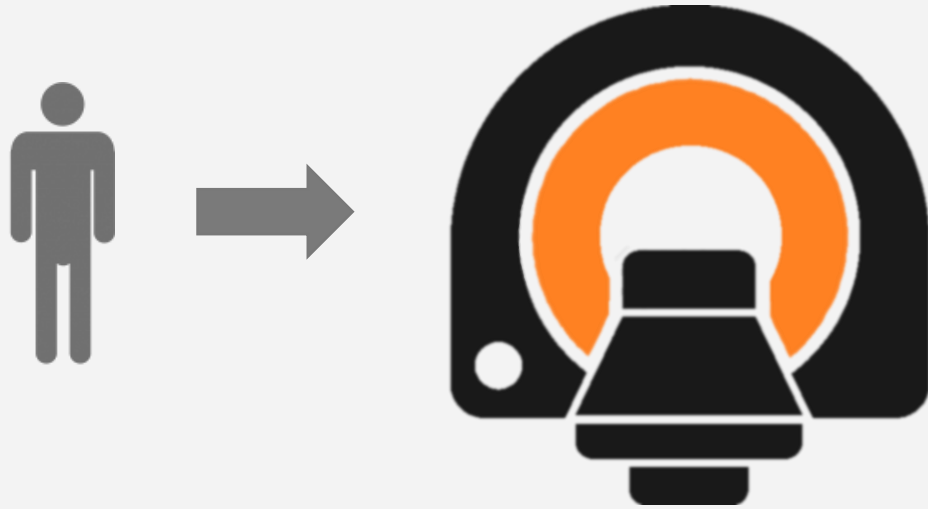
Mateusz Krysiński

Monika Czaja – Ziólkowska

Jarosław Wasilewski

# Current diagnostic procedure

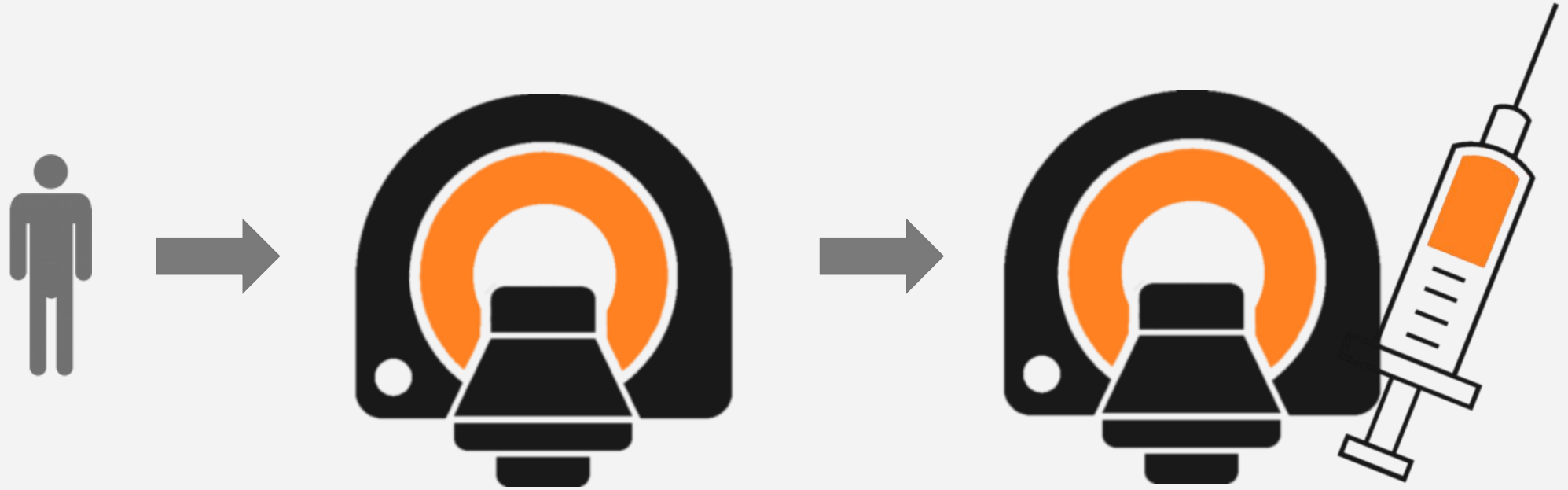
# Current diagnostic procedure



# Current diagnostic procedure



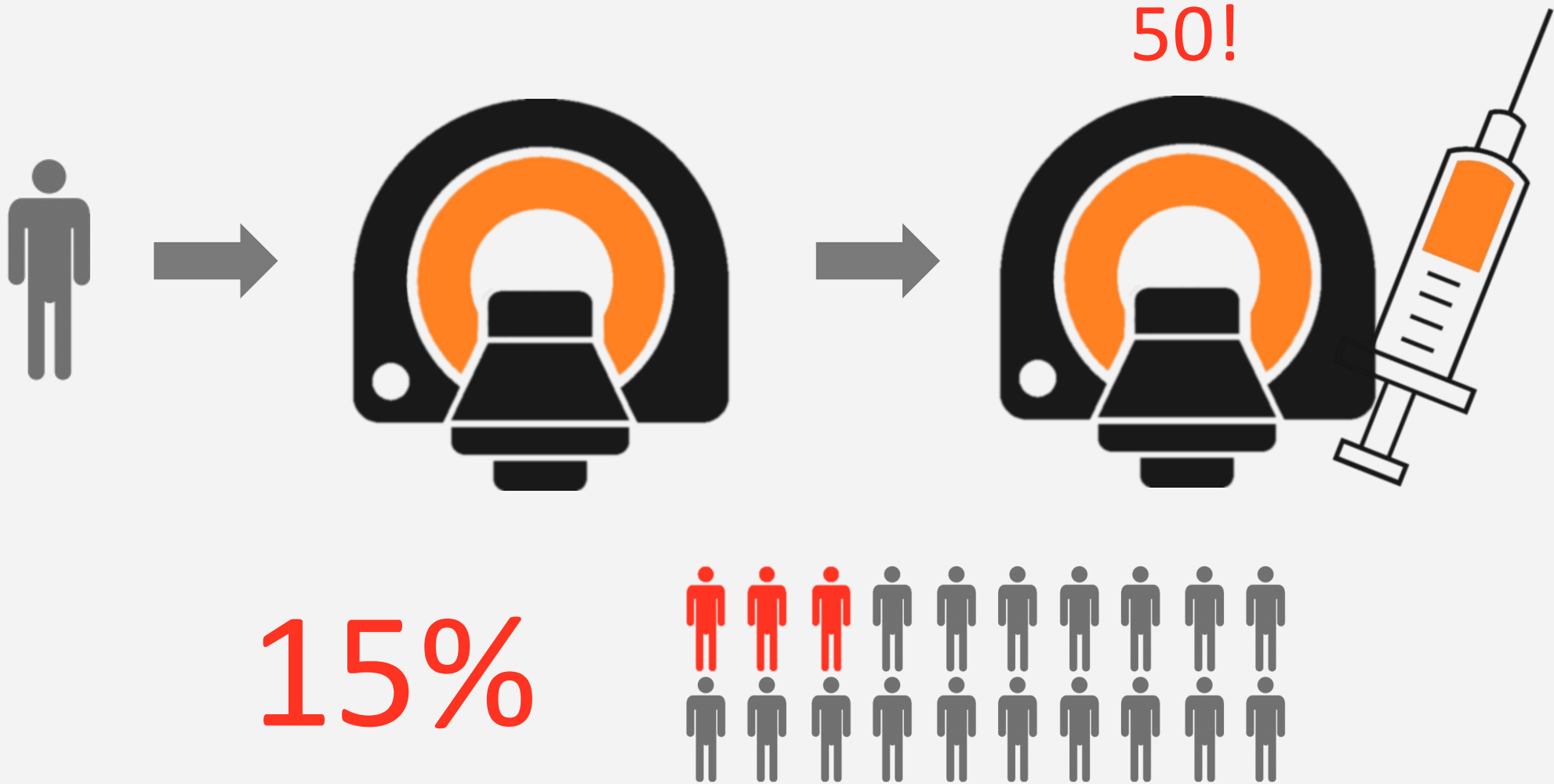
# Current diagnostic procedure



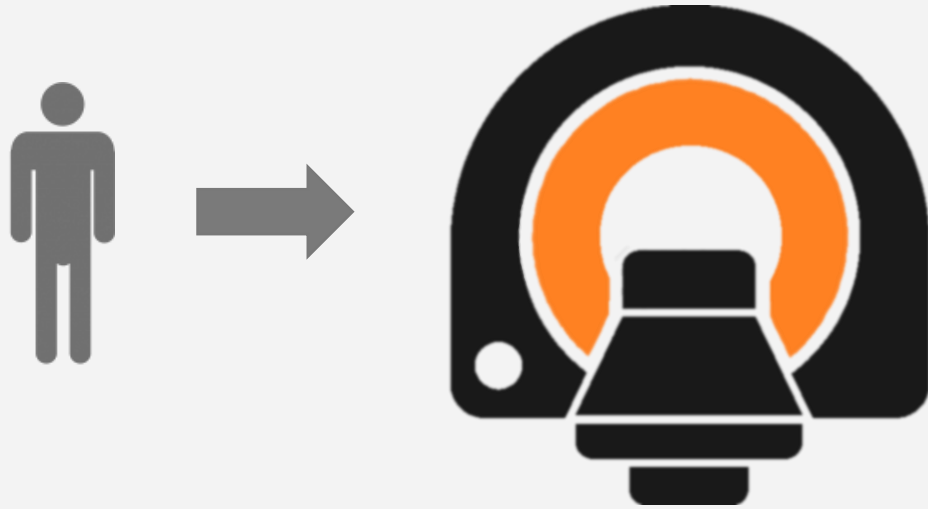
# Current diagnostic procedure



# Current diagnostic procedure



# Data extension and Machine Learning





# Data extension and Machine Learning

Calcium Score



# Data extension and Machine Learning

Calcium Score  
Mass Equivalent



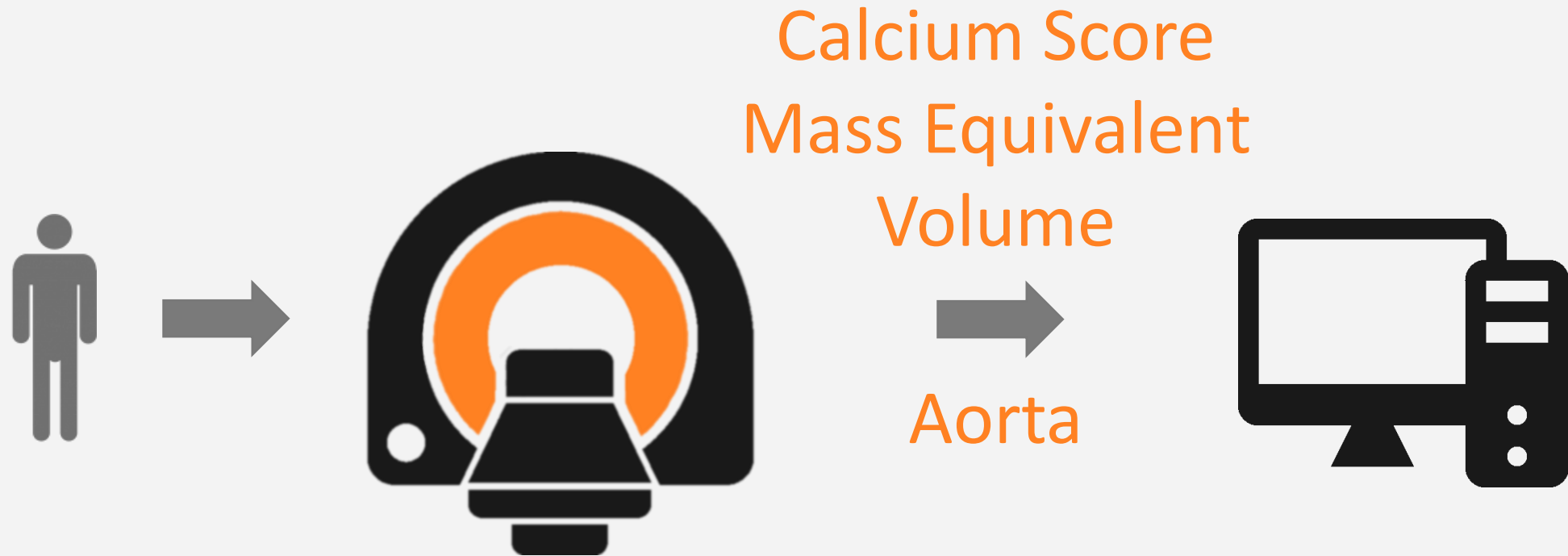
# Data extension and Machine Learning



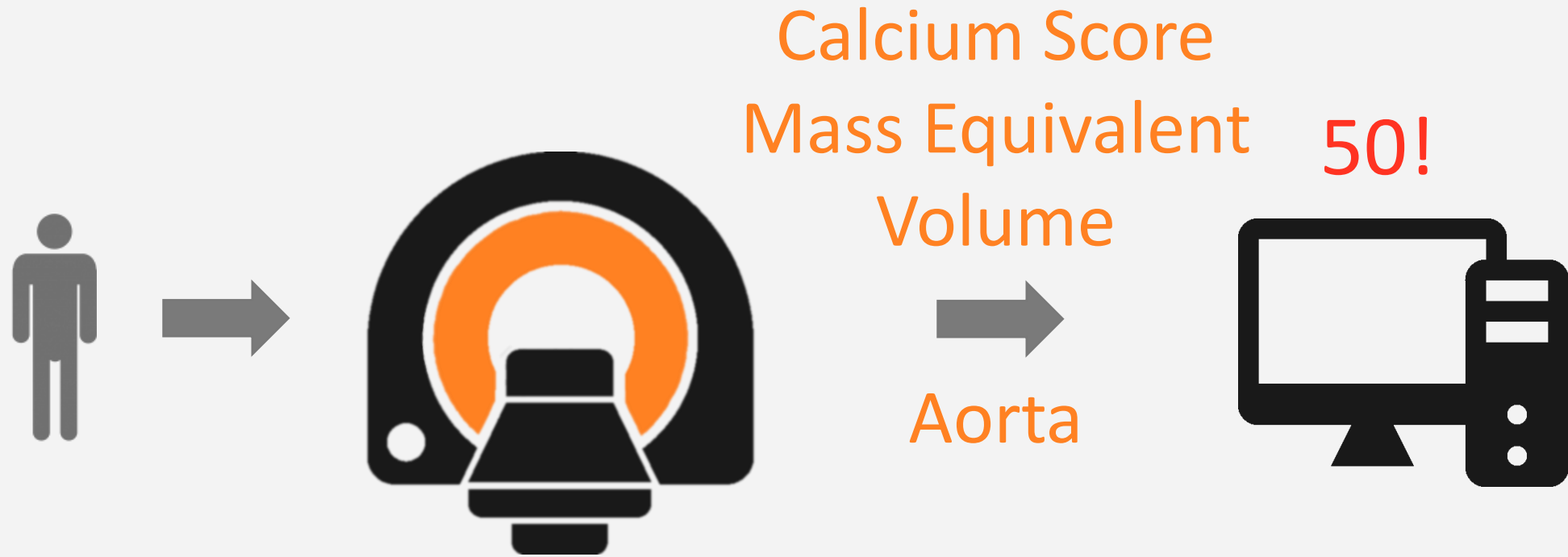
# Data extension and Machine Learning



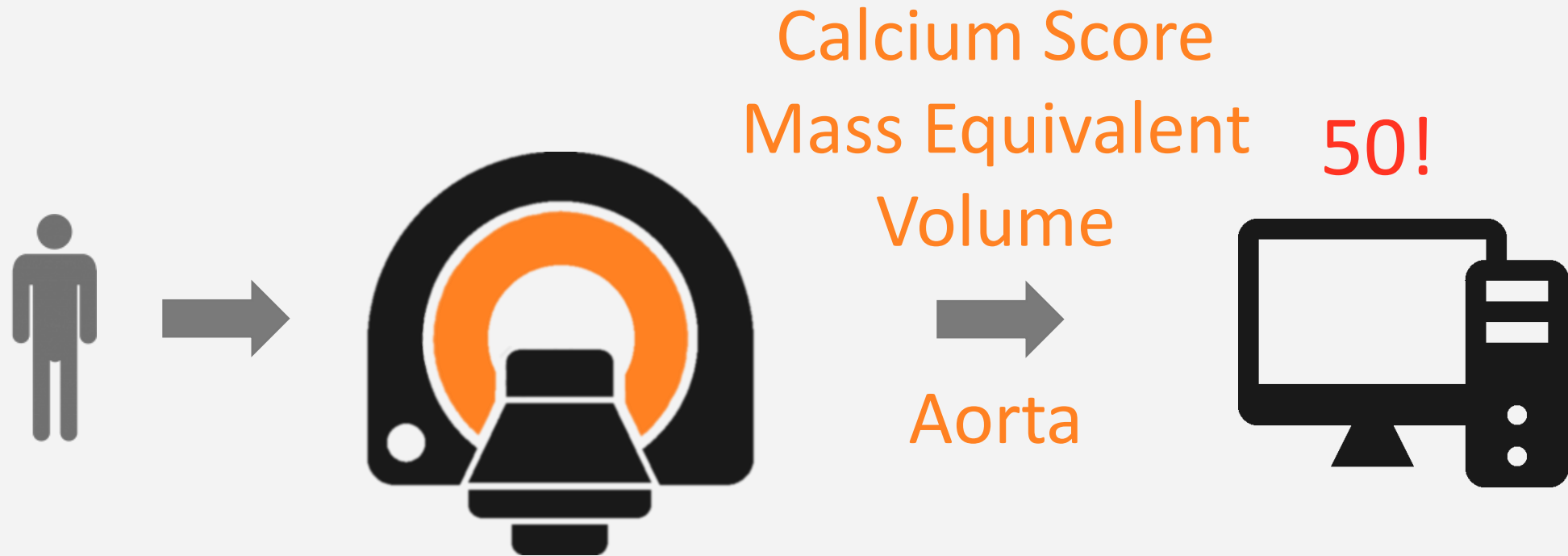
# Data extension and Machine Learning



# Data extension and Machine Learning



# Data extension and Machine Learning



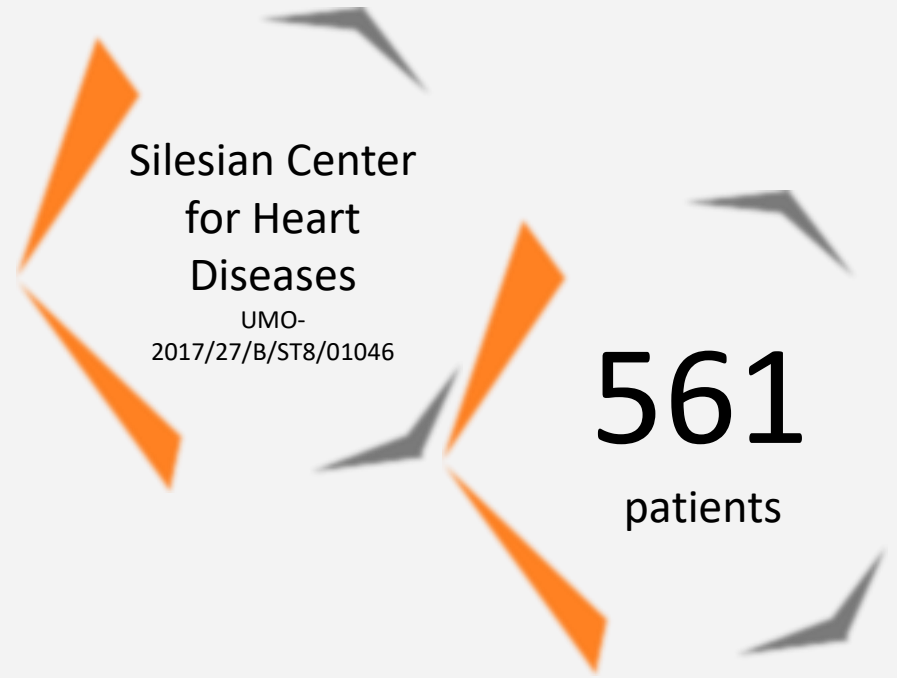
# Our research



# Our research



# Our research



Silesian Center  
for Heart  
Diseases  
UMO-  
2017/27/B/ST8/01046

**561**  
patients

# Our research



Silesian Center  
for Heart  
Diseases  
UMO-  
2017/27/B/ST8/01046

**561**  
patients

**435**  
training set

# Our research

Silesian Center  
for Heart  
Diseases  
UMO-  
2017/27/B/ST8/01046

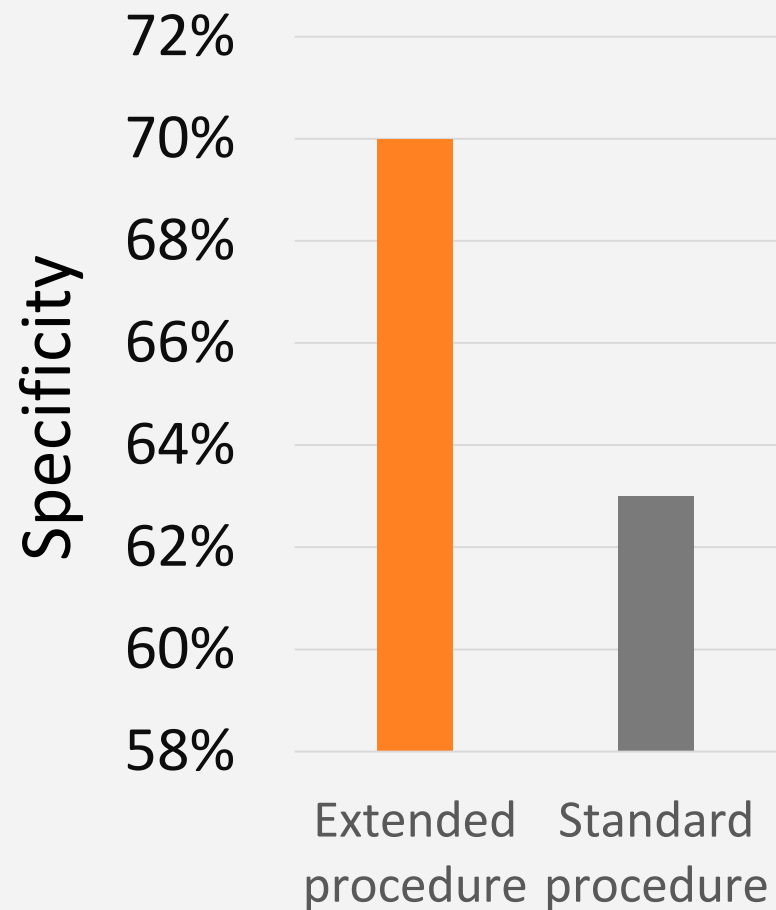
**561**  
patients

**435**  
training set

**126**  
clinical test

# Our research

100% sensitivity



Silesian Center  
for Heart  
Diseases  
UMO-  
2017/27/B/ST8/01046

561  
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435  
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126  
clinical test

Thank you for your attention