

## Screening

Thank you for deciding to participate in this survey!

Please read the questions on the screen carefully, and answer them honestly. There are no right or wrong answers, we are simply interested in your opinion. All responses will be kept confidential.

Thank you in advance for your honest and thoughtful responses.

Please click anywhere on this page at least five times. The number of times you click will be recorded automatically, even if you do not see any change on this page. This is an attention check. Failing this attention check will result in rejecting your hit. Thank you.

**Attention check failed, your hit will be rejected.**

If you see this note, it means that you failed the attention check presented on the previous page, which read: "Please click anywhere on this page at least five times. The number of times you click will be recorded automatically, even if you do not see any change on this page. This is an attention check. Failing this attention check will result in rejecting your hit. Thank you."

## Intro

### **SURVEY ON MEDICAL DIAGNOSES**

We are interested in your opinion on medical diagnoses.  
Please read the next page carefully.

## Human

Modern medicine is increasingly recurring to diagnostic imaging techniques -- such as X-ray, MRI and PET/CT scans -- to diagnose a wide range of medical conditions (e.g., lesions, cancer, pneumonia, etc.). Diagnostic imaging often involves a radiologist who examines the images for certain features in patients' anatomical structure and makes a medical diagnosis.

**"A radiologist should have to explain exactly what information is considered to diagnose a medical condition based on imaging"**

Strongly disagree      Disagree      Somewhat disagree      Neither agree nor disagree      Somewhat agree      Agree      Strongly agree

**"A radiologist should have to explain exactly how the information considered is weighted to diagnose a medical condition based on imaging"**

Strongly disagree      Disagree      Somewhat disagree      Neither agree nor disagree      Somewhat agree      Agree      Strongly agree

**"It is ok for a radiologist not to have to explain exactly how a medical condition is diagnosed based on imaging "**

Strongly disagree      Disagree      Somewhat disagree      Neither agree nor disagree      Somewhat agree      Agree      Strongly agree

## Algorithm

Modern medicine is increasingly recurring to diagnostic imaging techniques -- such as X-ray, MRI and PET/CT scans -- to diagnose a wide range of medical conditions (e.g., lesions, cancer, pneumonia, etc.). Diagnostic imaging often involves an artificial intelligence algorithm that examines the images for certain features in patients' anatomical structure and makes a medical diagnosis.

**"An algorithm should have to explain exactly what information is considered to diagnose a medical condition based on imaging"**

Strongly disagree      Disagree      Somewhat disagree      Neither agree nor disagree      Somewhat agree      Agree      Strongly agree

**"An algorithm should have to explain exactly how the information considered is weighted to diagnose a medical condition based on imaging"**

Strongly  
disagree  
☐

Disagree  
☐

Somewhat  
disagree  
☐

Neither agree  
nor disagree  
☐

Somewhat  
agree  
☐

Agree  
☐

Strongly  
agree  
☐

**"It is ok for an algorithm not to have to explain exactly how a medical condition is diagnosed based on imaging"**

Strongly  
disagree  
☐

Disagree  
☐

Somewhat  
disagree  
☐

Neither agree  
nor disagree  
☐

Somewhat  
agree  
☐

Agree  
☐

Strongly  
agree  
☐

## Demos

**What is your gender?**

- ☐ Male
- ☐ Female
- ☐ Prefer not to say

**What is your age?**