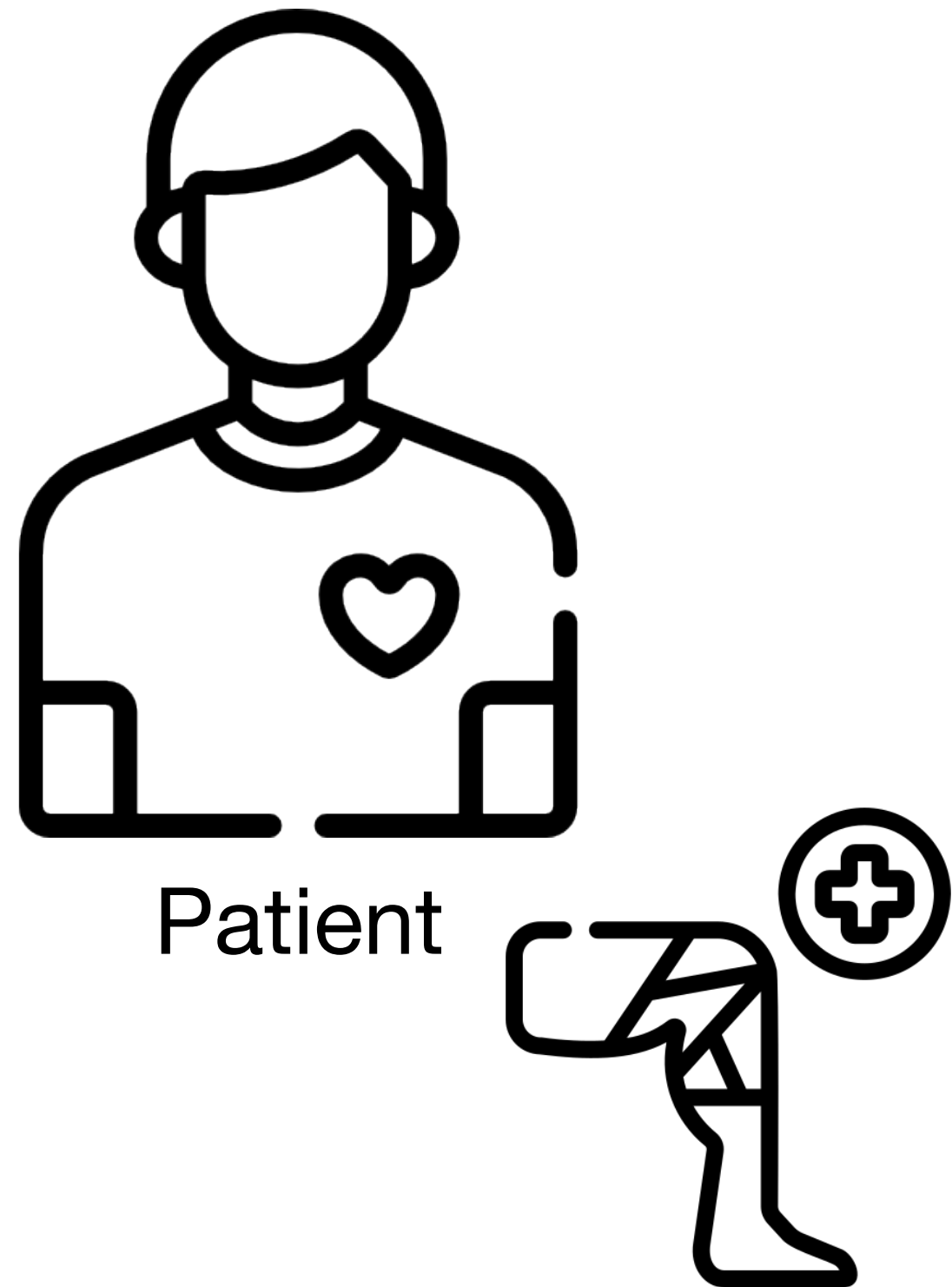
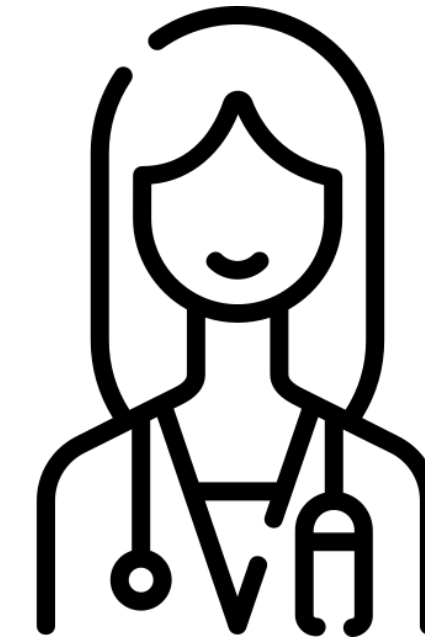


The Intelligent Anamnesis

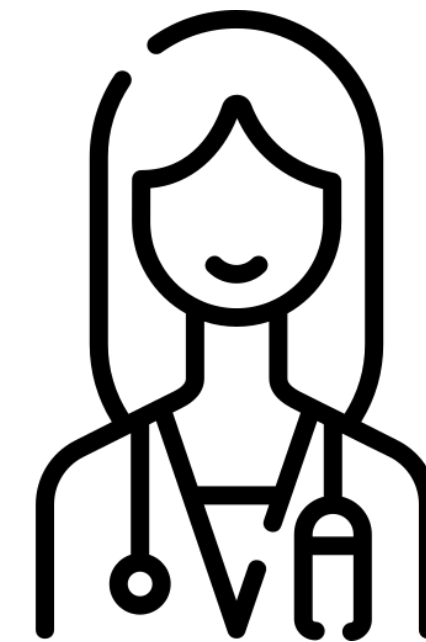
Before TIA



Doctor 2



Doctor 1

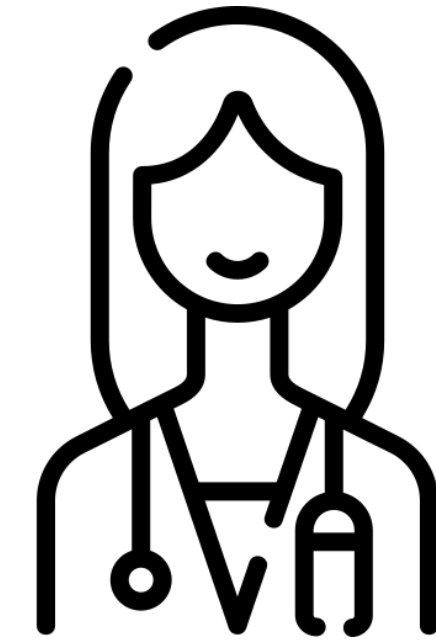
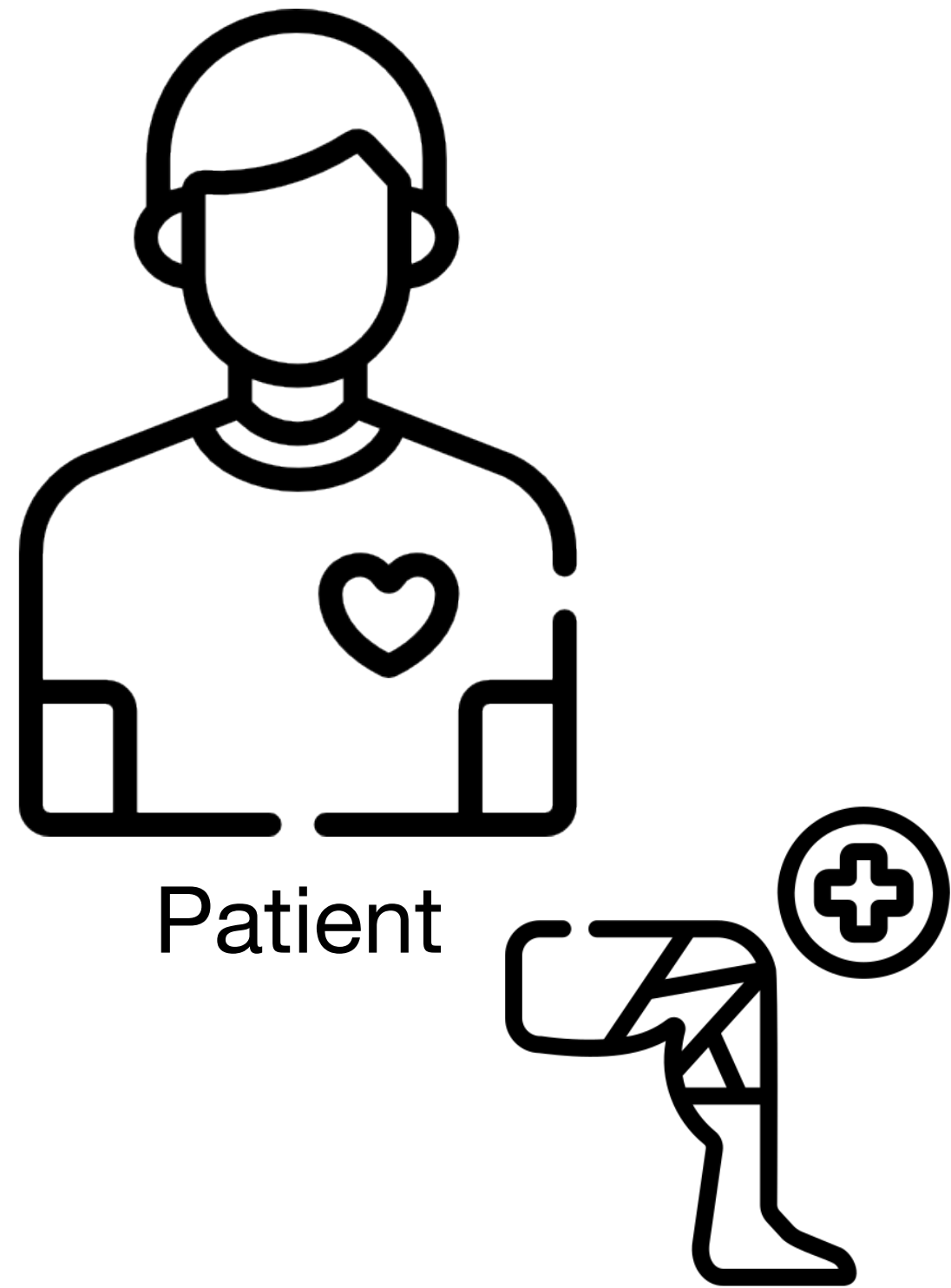


Doctor 4

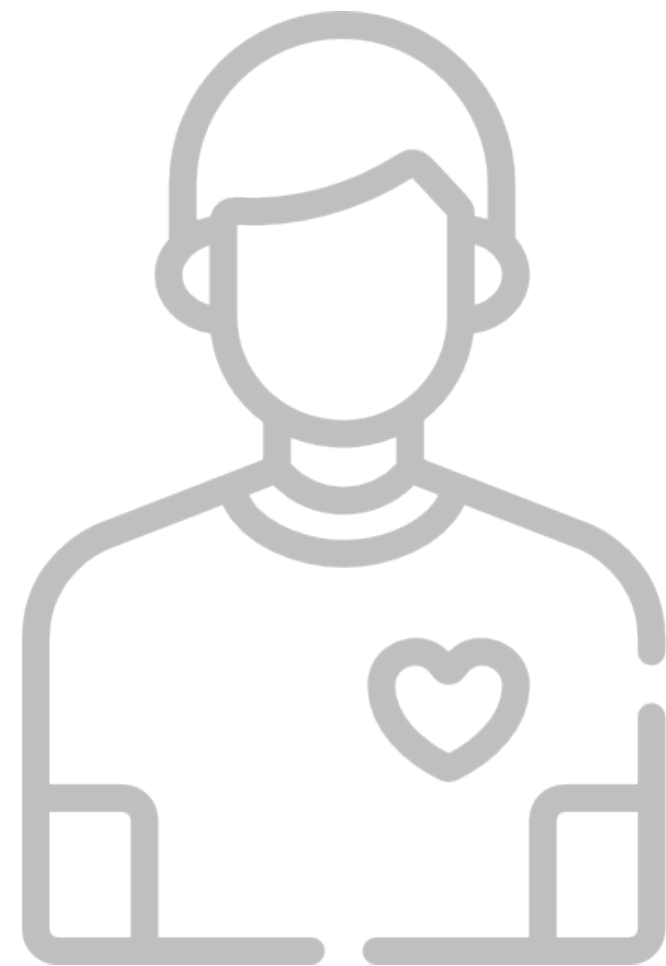


Doctor 3

Before TIA



Before TIA



Patient



Does not have the required knowledge to pick the right doctor for the injury

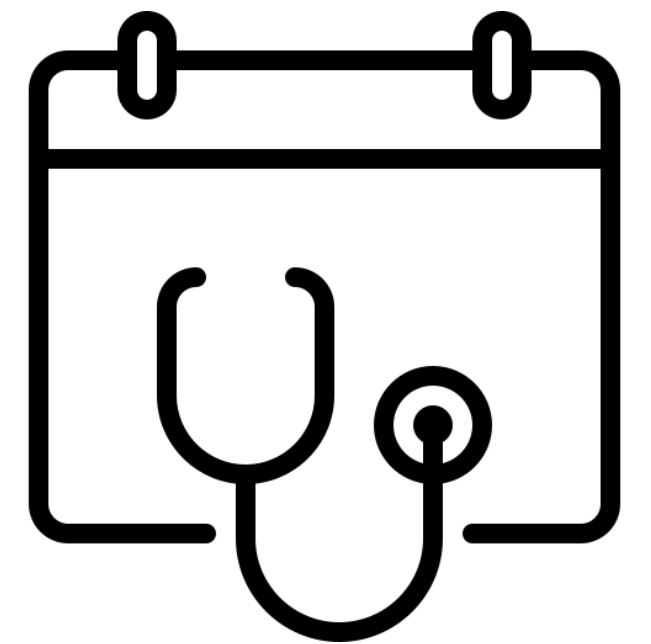
Description of the injury is unstructured and most of the time lacking important information

Loses precious time and resources performing repetitive diagnostic tests

Does not get all necessary information from the patient to build an informed diagnosis

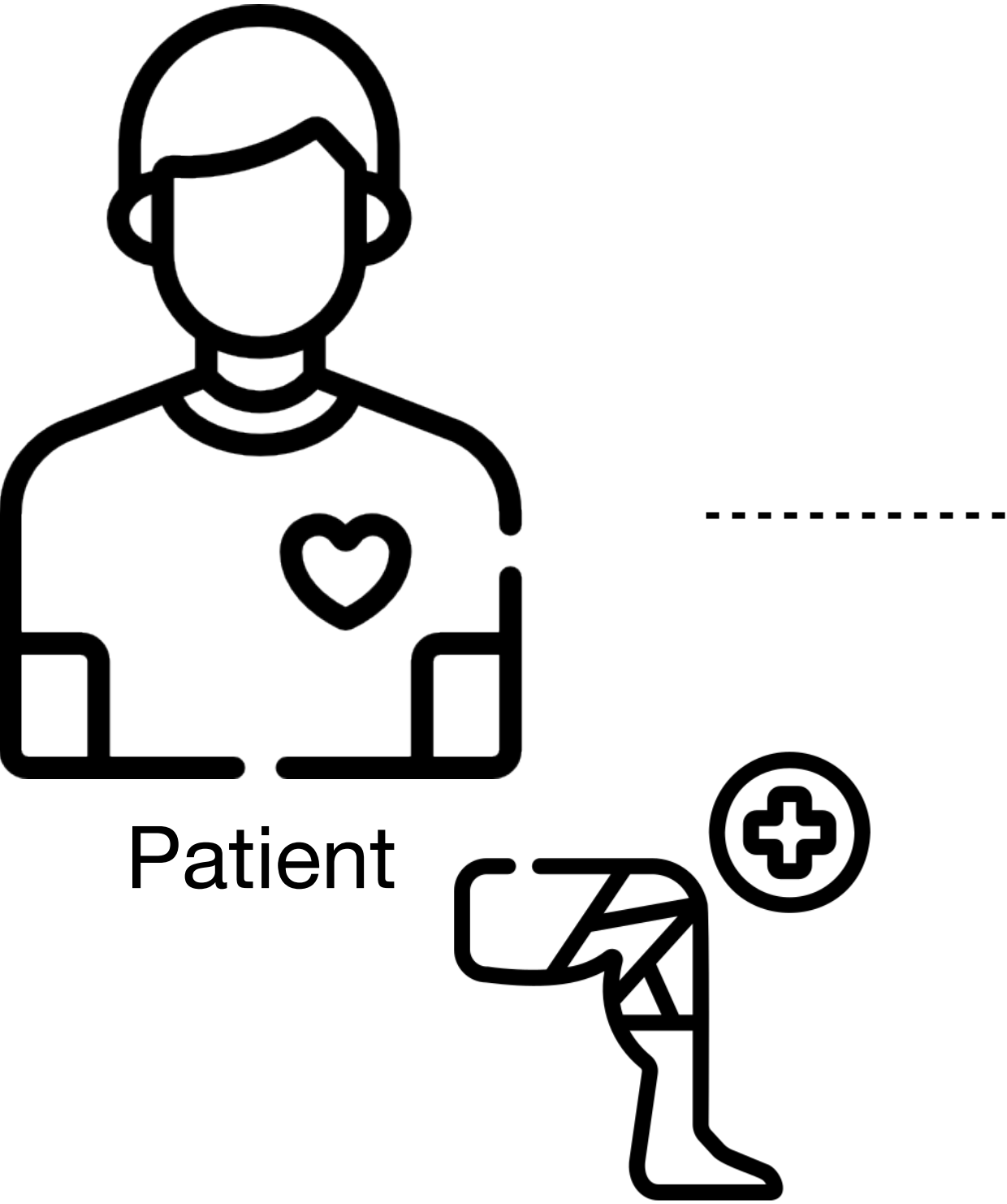


Doctor

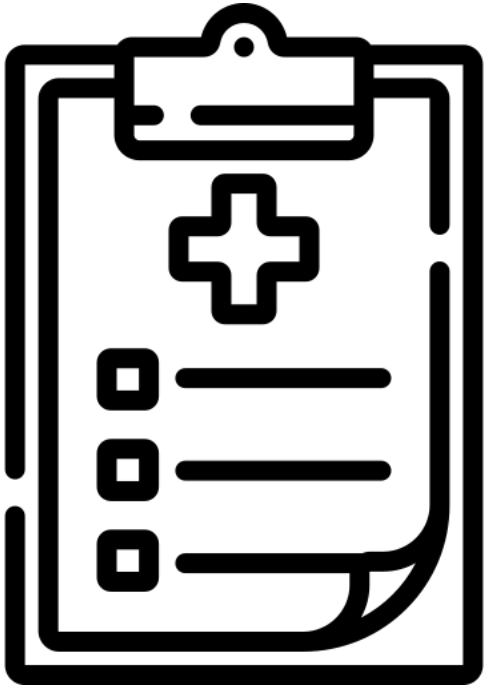


Appointment

After TIA



Patient



Questionnaire



Diagnosis



Doctor 2



Doctor 1

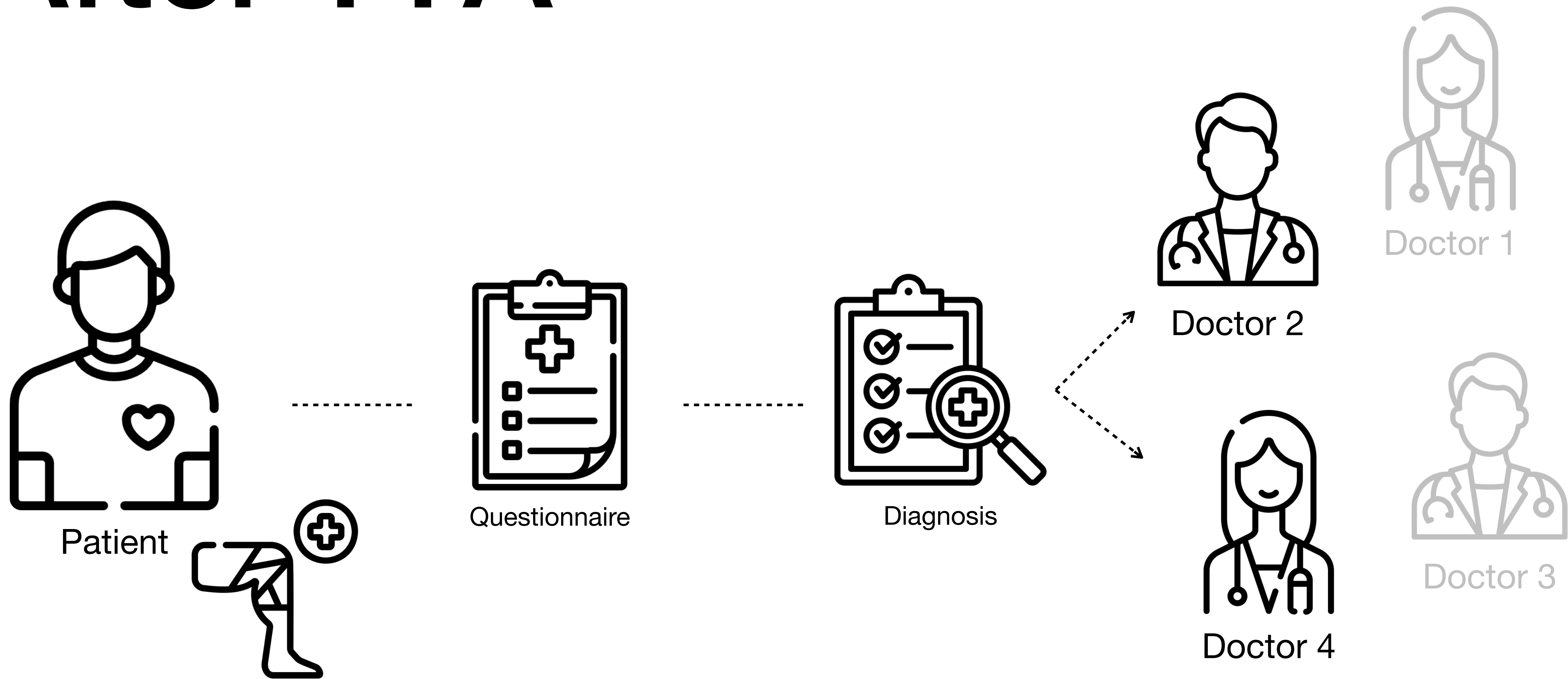


Doctor 4

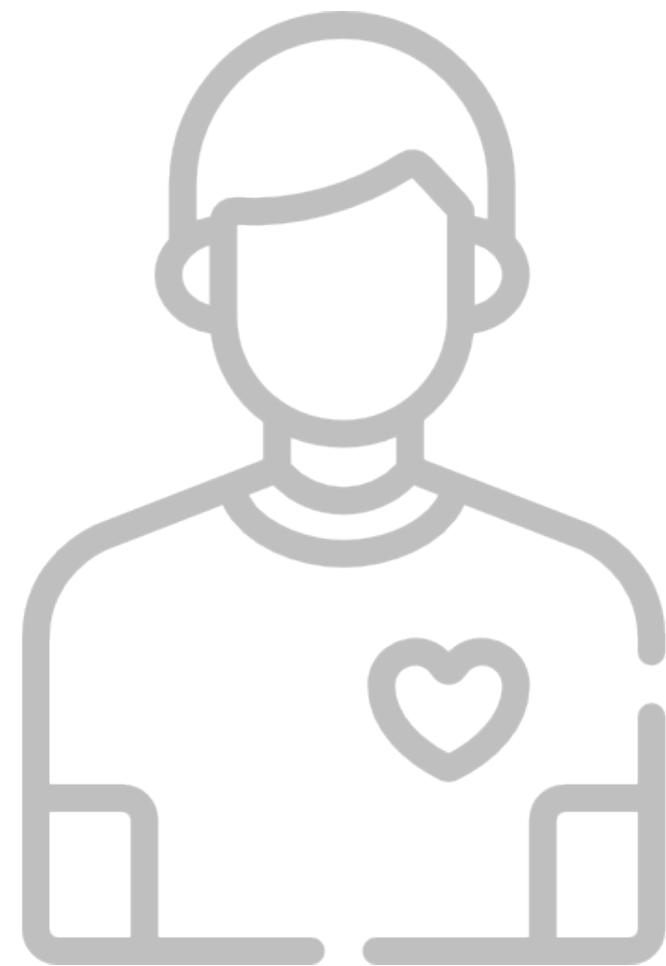


Doctor 3

After TIA



After TIA



Patient



Has the time to gather and structure all the necessary information related to the injury

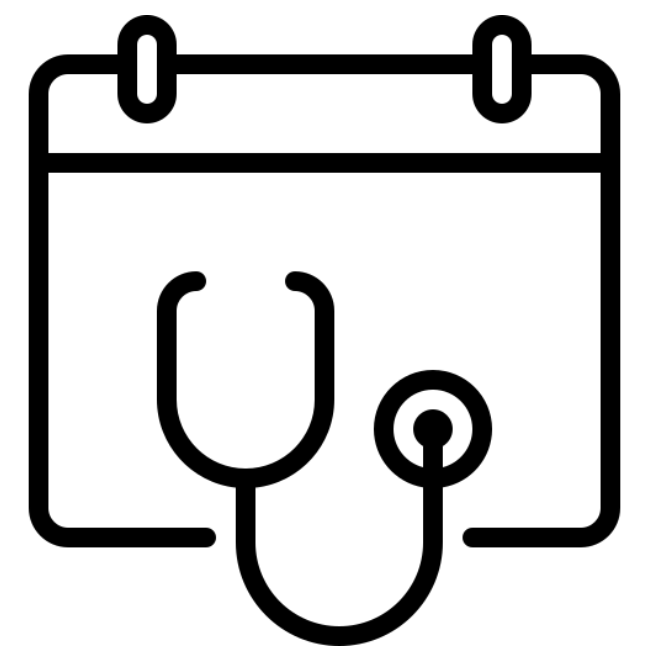
Has a primary diagnosis that matches them with the right doctor

Has a structured description of the injury that serves as a basis for the discussion with the patient

Takes in less falsely scheduled appointment and has more time for more suited patient cases

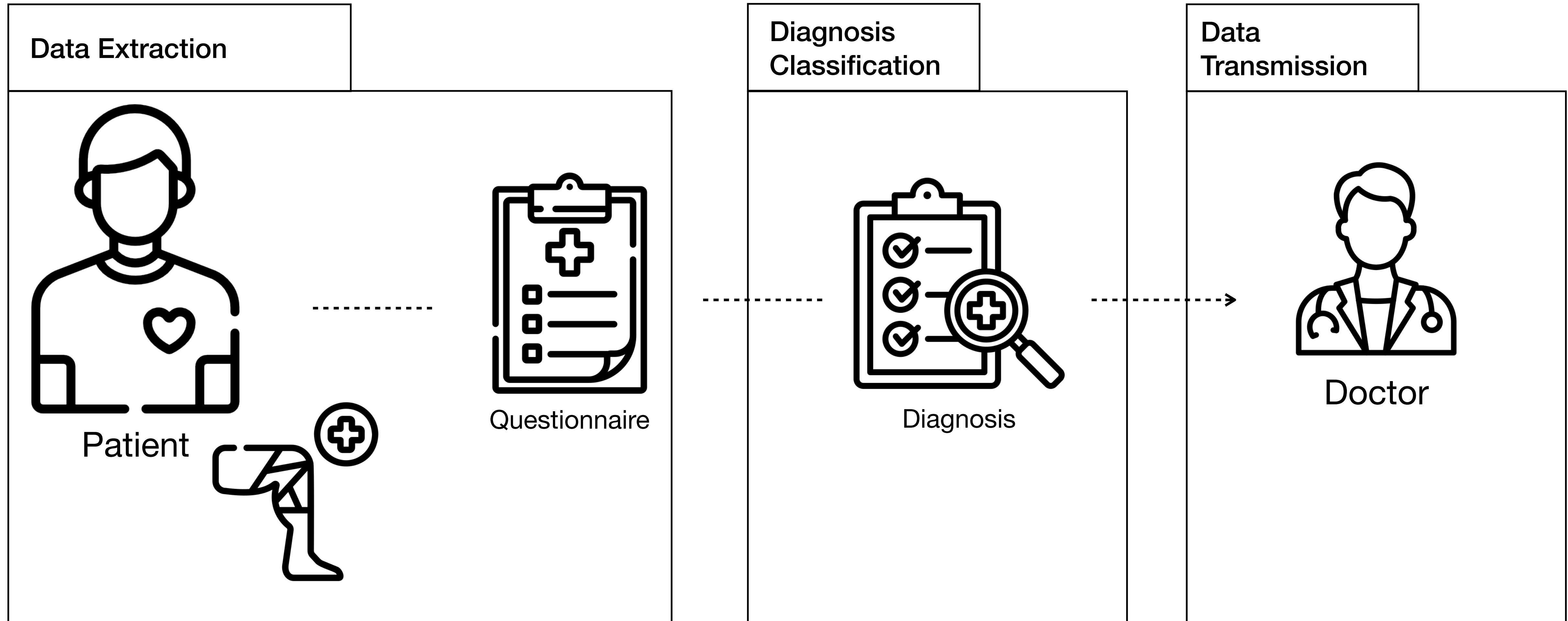


Doctor

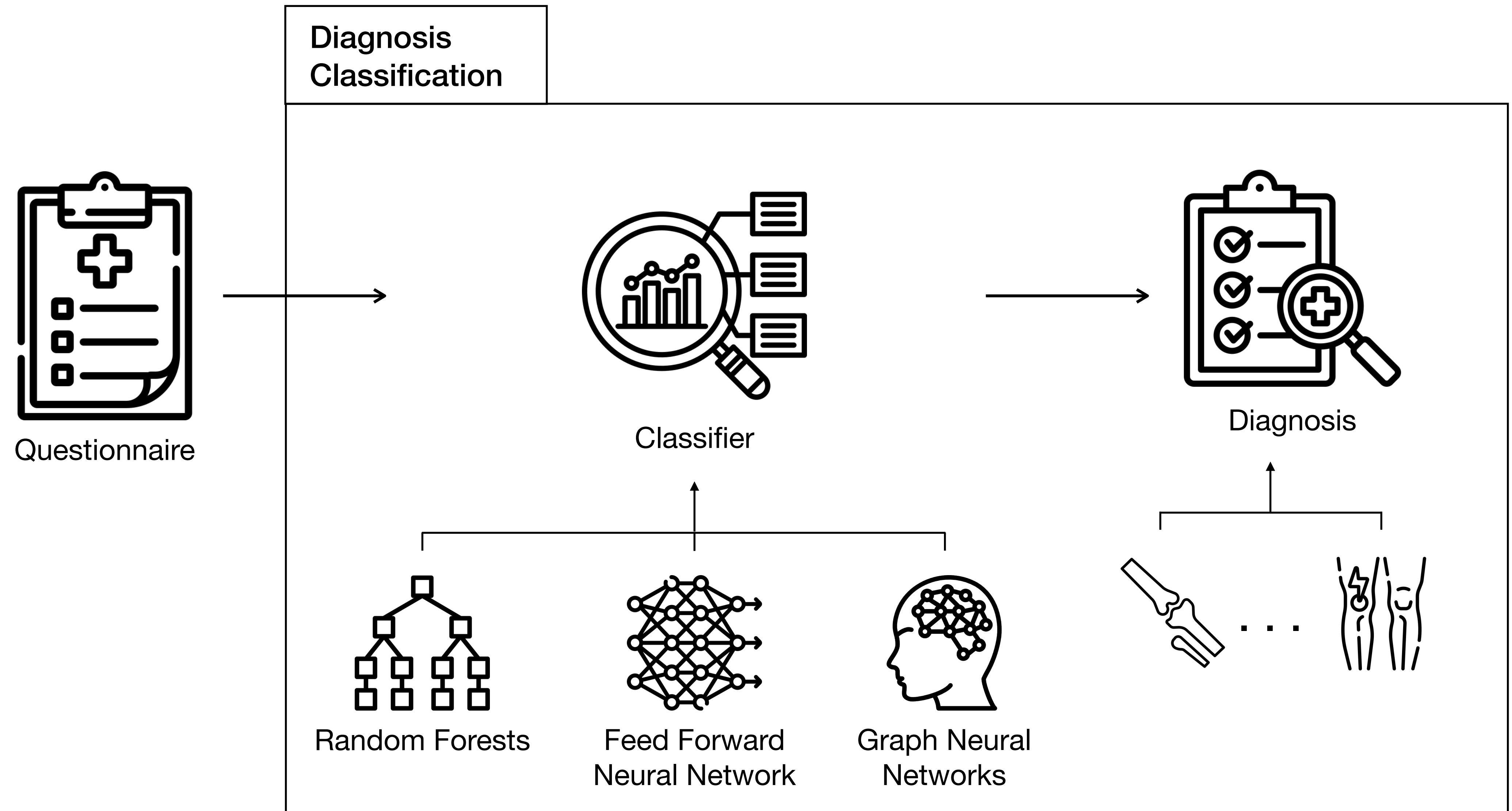


Appointment

Solution

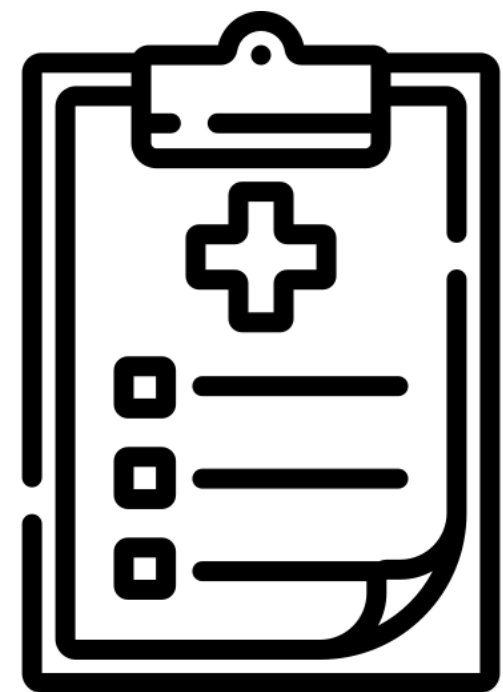


Solution

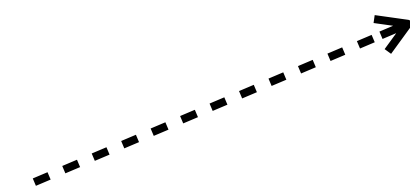


Solution

Classifier Input:



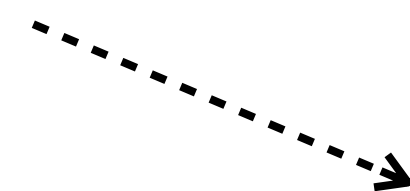
Questionnaire



Training



Validation



Testing

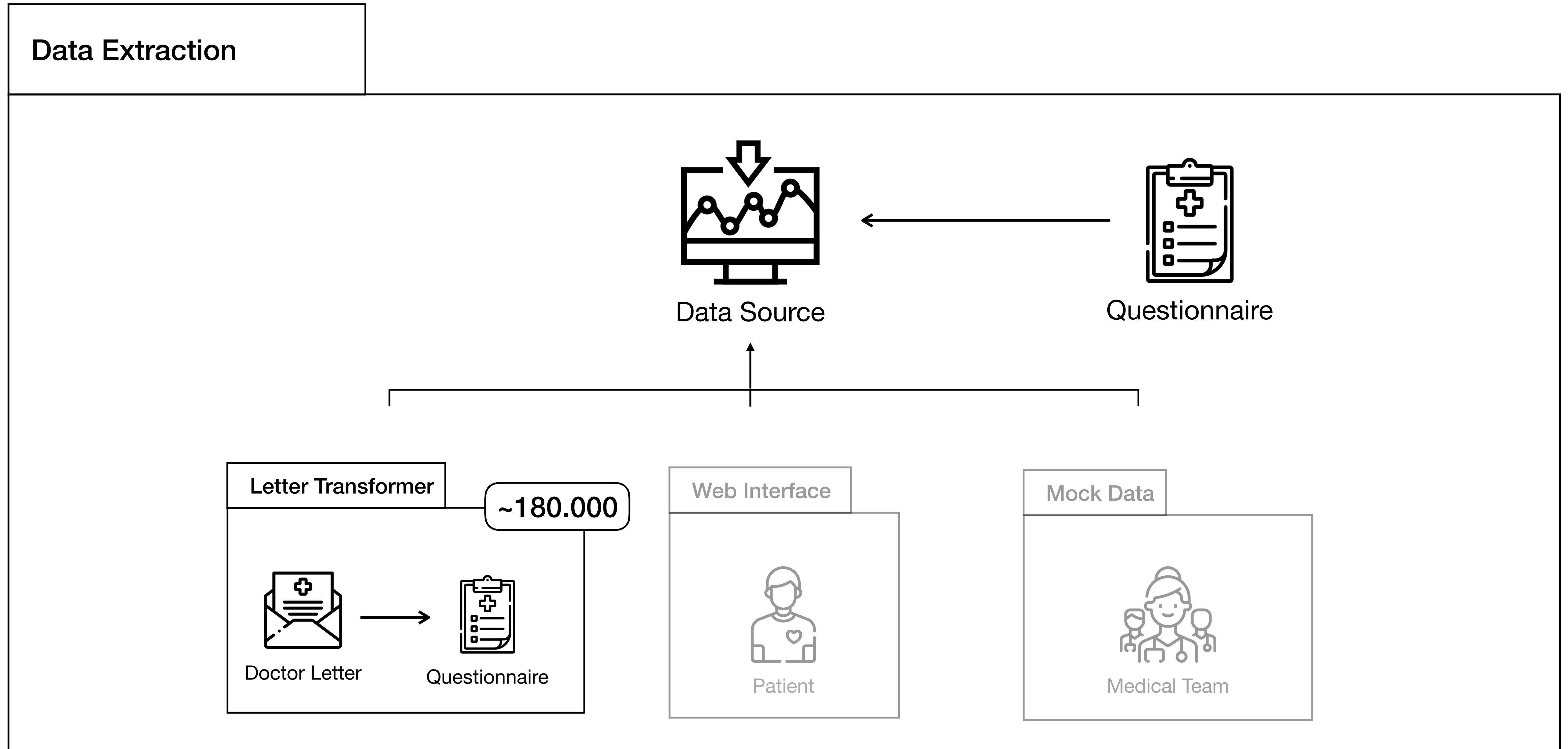
- ▶ Medical domain requires high reliability

- ▶ We need to cover 20 different diagnosis

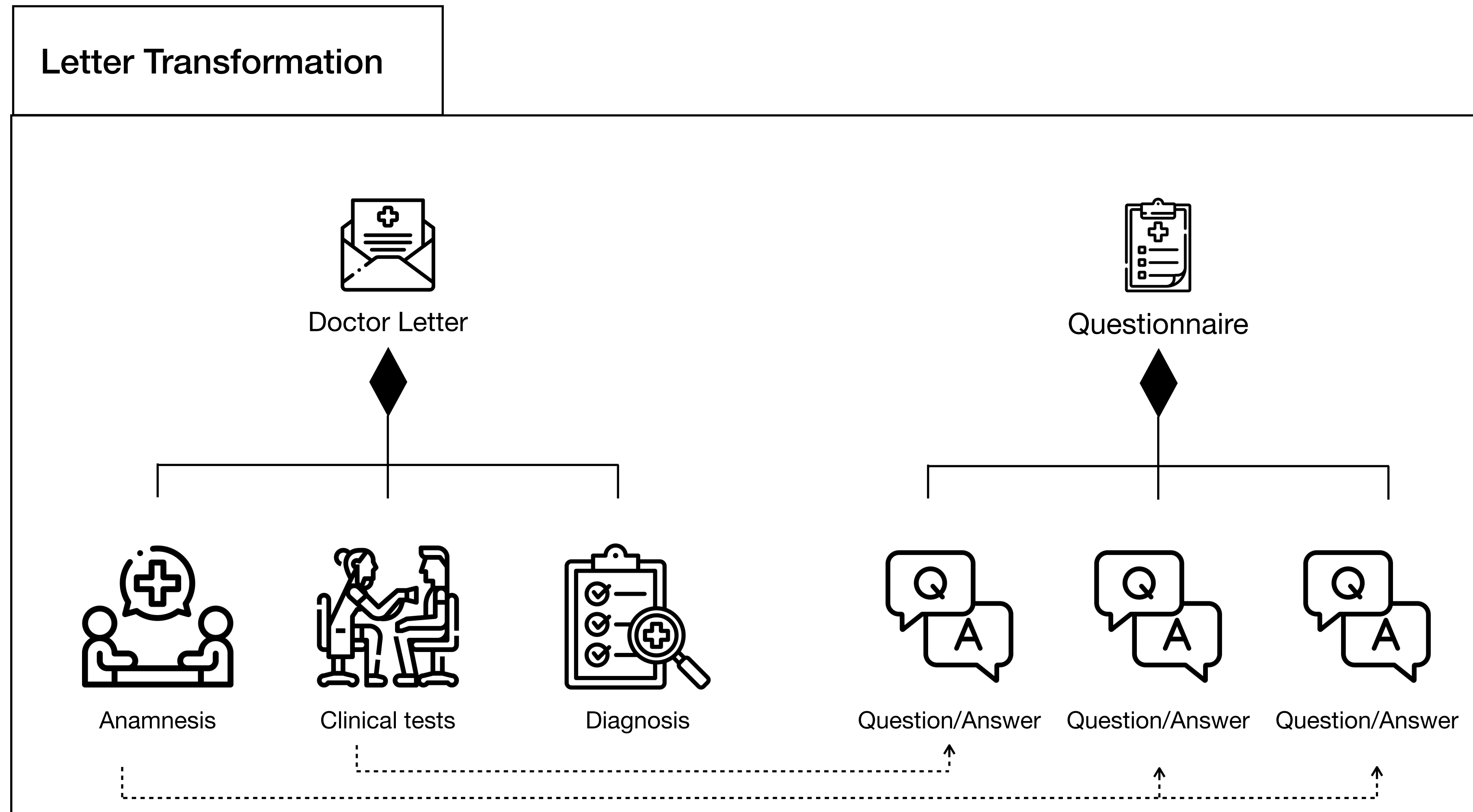
- ▶ The patients can present a large variety of symptoms that are inter-correlated

We need a large amount of data!

Solution



Solution



Challenges

- ▶ Letters and questionnaires come from two linguistic fields
- ▶ Doctors don't all write in a unified style
- ▶ Letters are open to interpretation
- ▶ Questions and answers have different structures and styles

Solution

