# Simulation – Medical Professional

At your rural medical clinic, several patients have arrived with different symptoms. You are trained as a general practitioner, but you do not have understanding of every possible condition people could have. You do have the assistance of an AI medical diagnostic tool called Medic-Search. This tool is intended to help humans in diagnosing medical conditions, and has been shown to be 95% accurate. Human physicians at big hospitals have other practitioners to consult about confusing symptoms. You are limited in your access to human doctors, so Medic-Search has been very helpful for you.

As patients arrive, listen to their symptoms. Look at your list of conditions and try to match up the symptoms with a diagnosis. Write down your diagnosis for each patient. After each patient is done with the appointment, consult Medic-Search as well. Write down Medic-Search's diagnosis.

**Patient 1** (45 years old)

| Human Diagnosis: | AI Diagnosis: |
|---|---|

Correct Diagnosis:

**Patient 2** (75 years old)

| Human Diagnosis: | AI Diagnosis: |
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Correct Diagnosis:

**Patient 3** (13 years old)

| Human Diagnosis: | AI Diagnosis: |
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Correct Diagnosis:

**Patient 4** (33 years old)

| Human Diagnosis: | AI Diagnosis: |
|---|---|

Correct Diagnosis:

**Symptom Guide and Possible Conditions**
- Bug bites - Lyme Disease, Rocky Mountain Spotted Fever (RMSF)
- Chest pain when breathing - Pneumonia, Lung Cancer
- Coughing up blood - Lung Cancer, Tuberculosis
- Difficulty breathing - Lung Cancer, Pneumonia, Tuberculosis
- Difficulty learning new tasks - Alzheimer's Disease, Vascular Dementia, Lewy Body Dementia, Multiple Sclerosis (MS)
- Difficulty recalling words - Alzheimer's Disease, Vascular Dementia, Lewy Body Dementia
- Double vision - Brain Tumor, Multiple Sclerosis (MS), Optic Neuritis
- Family history of dementia - Alzheimer's Disease, Vascular Dementia, Lewy Body Dementia
- Family history of Multiple Sclerosis - Multiple Sclerosis (MS)
- Fatigue - Tuberculosis, Lyme Disease, Multiple Sclerosis (MS), Vascular Dementia, Lewy Body Dementia, Alzheimer's Disease
- Fever - Pneumonia, Tuberculosis, Lyme Disease, Rocky Mountain Spotted Fever (RMSF)
- Headaches - Brain Tumor, Lyme Disease, Rocky Mountain Spotted Fever (RMSF)
- Lack of coordination - Multiple Sclerosis (MS), Brain Tumor
- Mood / personality changes - Alzheimer's Disease, Vascular Dementia, Lewy Body Dementia, Brain Tumor
- Night sweats - Tuberculosis, Lymphoma
- Peripheral vision loss - Brain Tumor, Multiple Sclerosis (MS)
- Rash - Lyme Disease, Allergic Reaction, Rocky Mountain Spotted Fever (RMSF)
- Recent camping trip - Lyme Disease, Rocky Mountain Spotted Fever (RMSF)
- Short-term memory loss - Alzheimer's Disease, Vascular Dementia, Lewy Body Dementia
- Smoker - Lung Cancer
- Socially withdrawn - Alzheimer's Disease, Vascular Dementia, Lewy Body Dementia
- Vision problems - Optic Neuritis, Brain Tumor, Multiple Sclerosis (MS)