

## COMPLETE LIST OF QUERIES YOU CAN GIVE

Based on your trained model and the 4 intent categories, here are all the types of queries you can ask:

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### **1 STUDY COUNT QUERIES (Intent: study\_count)**

**Purpose:** Get the number/count of studies

#### **With Modality + Body Part:**

How many CT scans of the chest?

Count MRI brain studies

Total ultrasound scans of abdomen

Number of cardiac CT scans

How many spine X-rays?

Count knee MRI scans

How many PET scans of the brain?

Total mammography breast studies

How many lung CT scans?

Count of liver ultrasound studies

#### **With Modality Only:**

How many CT scans?

Count all MRI studies

Total X-ray scans

How many ultrasound scans?

Number of PET scans

Count mammography studies

How many total MRI scans are there?

#### **With Body Part Only:**

How many chest scans?

Count brain imaging studies

Total heart studies

Number of abdomen scans

How many spine studies?

Count knee imaging

**General Count:**

How many studies total?

Count all imaging studies

Total number of scans

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**2 LIST STUDIES QUERIES (Intent: list\_studies)**

**Purpose:** Get a list of study IDs

**With Modality + Body Part:**

List all CT scans of the chest

Show me MRI brain studies

Give me ultrasound abdomen studies

Display cardiac CT scans

List spine X-ray studies

Show knee MRI scans

Give me all lung CT studies

List liver ultrasound scans

Show breast mammography studies

Display heart MRI scans

**With Modality Only:**

List all CT scans

Show me all MRI studies

Give me X-ray studies

Display ultrasound scans

List PET scans

Show all mammography studies

**With Body Part Only:**

List all chest imaging studies

Show me brain scans

Give me heart imaging

Display abdomen studies

List spine imaging

Show knee scans

**General List:**

List all studies

Show me all imaging studies

Give me all scans

Display all available studies

List every study

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**3 LIST MODALITIES QUERIES (Intent: list\_modalities)**

**Purpose:** Get list of available imaging types/modalities

What imaging modalities are available?

List all imaging types

Show me available scan types

What kinds of imaging do you have?

Give me all modalities

What scan modalities can I search?

List imaging modality options

Show available imaging techniques

What types of medical imaging are there?

Display all scan modalities

Which imaging methods are supported?

What radiological modalities exist?

Tell me the available imaging types

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#### **LIST BODY PARTS QUERIES (Intent: list\_body\_parts)**

**Purpose:** Get list of available anatomical regions

What body parts can be scanned?

List all anatomical regions

Show available body parts

Which organs can I search for?

Give me all body part options

What anatomical areas are covered?

List searchable body regions

Display all organ systems

What body areas can be imaged?

Show me all anatomical parts available

Which body parts have imaging data?

List all organs and body regions

What anatomical structures are supported?

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#### **SUPPORTED ENTITIES**

**Modalities (7 types):**

CT / Computed Tomography / CAT scan

MRI / Magnetic Resonance / MR imaging

X-ray / Xray / Radiograph

Ultrasound / Sonography / Doppler

- PET / Positron Emission
- Mammography / Mammogram
- DEXA / Bone Density

**Body Parts (34 types):**

Head/Neck Region:

- head, brain, neck, sinus, orbit, temporal bone, thyroid

Chest/Torax:

- chest, lung, heart

Abdomen/Pelvis:

- abdomen, pelvis, liver, kidney, pancreas, spleen, gallbladder, bladder, prostate, uterus, ovary

Spine:

- spine (cervical, thoracic, lumbar)

Upper Extremities:

- shoulder, elbow, wrist, hand

Lower Extremities:

- hip, knee, ankle, foot

Breast:

- breast

Vascular:

 carotid, aorta, vein, artery

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## EXAMPLE CONVERSATION FLOW

You: How many CT scans of the chest?

Bot: Found 125,478 studies matching your query.

You: List all MRI brain studies

Bot: Study IDs: 38245671, 38245023, 38244891, 38244562, 38244234

You: What imaging modalities are available?

Bot: Available modalities: CT, MRI, X-ray, ultrasound, PET, mammography, DEXA

You: What body parts can be scanned?

Bot: Available body parts: head, brain, neck, chest, lung, heart, abdomen...

You: Count ultrasound abdomen

Bot: Found 45,234 studies matching your query.