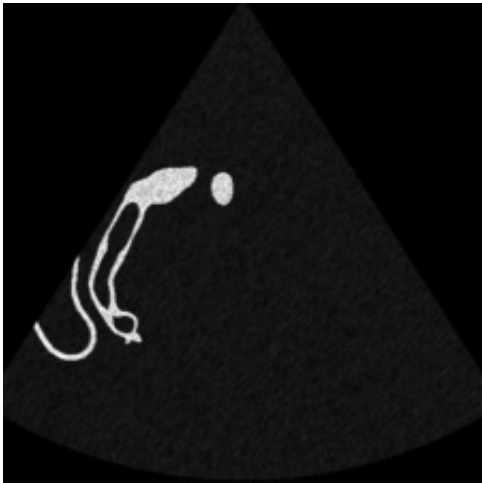


Example 1



Prompt:

You will be shown a freeze-frame from a point-of-care ultrasound scan. Return a JSON blob giving the **probe transform** that produces an optimal parasternal long-axis (PLAX) view.

Respond **exactly** like this:

```
<reasoning>
(one short sentence - feel free to mention slide / roll / fan / rotate
 / tilt)
</reasoning>
<answer>
{"position":{"x":XX,"y":YY,"z":ZZ},"rotation":{"x":RX,"y":RY,"z":RZ}}
</answer>
```

Do not put any other text after </answer>.

Ground Truth Answer: {"position":{"x":-0.048463307321071628,"y":-0.02537141740322113,"z":-0.00011014938354492188},"rotation":{"x":31.0,"y":15.0,"z":26.0}}

Completion -1.0

Full Model Output:

```
<reasoning>
Slide probe upwards and rotate towards left shoulder.
</reasoning>
<answer>
{"position":{"x":0,"y":0,"z":0},"rotation":{"x":0,"y":-90,"z":0}}
```

Extracted Reasoning:

Slide probe upwards and rotate towards left shoulder.

Extracted Answer:

```
{"position":{"x":0,"y":0,"z":0},"rotation":{"x":0,"y":-90,"z":0}}
```

| Metric | Value |
|---------|---------|
| numeric | -3.0000 |

| | |
|----------|--------|
| keywords | 0.5000 |
| xml | 0.5000 |

Completion -1.0

Full Model Output:

```
<reasoning>
Slide the probe to the right and tilt slightly upwards to capture the
parasternal long-axis view.
</reasoning>
<answer>
{"position":{"x":0.2,"y":0.3,"z":0.1},"rotation":{"x":0,"y":0,"z":0}}
</answer>
```

Extracted Reasoning:

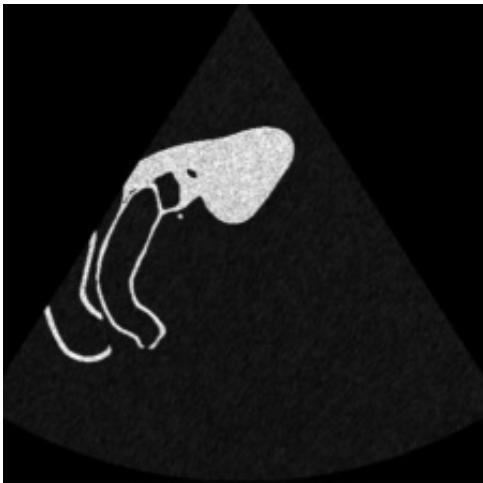
Slide the probe to the right and tilt slightly upwards to capture the parasternal long-axis view.

Extracted Answer:

```
{"position":{"x":0.2,"y":0.3,"z":0.1},"rotation":{"x":0,"y":0,"z":0}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Example 2



Prompt:

You will be shown a freeze-frame from a point-of-care ultrasound scan. Return a JSON blob giving the **probe transform** that produces an optimal parasternal long-axis (PLAX) view. Respond **exactly** like this:

```
<reasoning>
(one short sentence - feel free to mention slide / roll / fan / rotate
/ tilt)
</reasoning>
<answer>
{"position":{"x":XX,"y":YY,"z":ZZ},"rotation":{"x":RX,"y":RY,"z":RZ}}
</answer>
```

Do not put any other text after </answer>.

Ground Truth Answer: {"position":{"x":-0.04956212267279625,"y":-0.022336378693580629,"z":-0.0012343227863311768},"rotation":{"x":30.0,"y":14.0,"z":25.0}}

Completion -1.0

Full Model Output:

```
<reasoning>
Fan the image to the right.
</reasoning>
<answer>
{"position":{"x":0,"y":0,"z":0},"rotation":{"x":0,"y":0,"z":90}}
</answer>
```

Extracted Reasoning:

Fan the image to the right.

Extracted Answer:

```
{"position":{"x":0,"y":0,"z":0},"rotation":{"x":0,"y":0,"z":90}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Completion -1.0

Full Model Output:

```
<reasoning>
Slide the probe to the left and tilt it slightly upward.
</reasoning>
<answer>
{"position":{"x":-20,"y":0,"z":0},"rotation":{"x":0,"y":0,"z":90}}
</answer>
```

Extracted Reasoning:

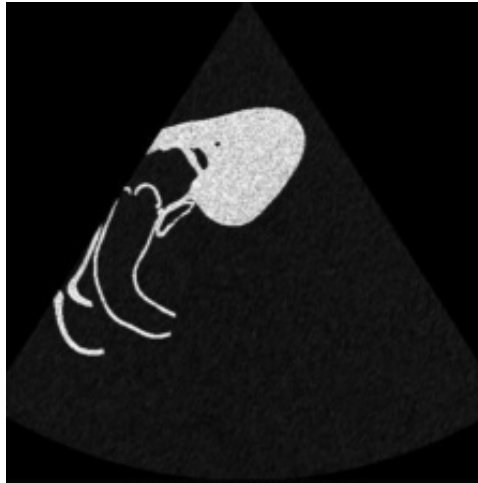
Slide the probe to the left and tilt it slightly upward.

Extracted Answer:

```
{"position":{"x":-20,"y":0,"z":0},"rotation":{"x":0,"y":0,"z":90}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Example 3



Prompt:

You will be shown a freeze-frame from a point-of-care ultrasound scan. Return a JSON blob giving the **probe transform** that produces an optimal parasternal long-axis (PLAX) view.

Respond **exactly** like this:

```
<reasoning>
(one short sentence - feel free to mention slide / roll / fan / rotate
/ tilt)
</reasoning>
<answer>
{"position":{"x":XX,"y":YY,"z":ZZ},"rotation":{"x":RX,"y":RY,"z":RZ}}
</answer>
```

Do not put any other text after </answer>.

Ground Truth Answer: {"position":{"x":-0.052875980734825137,"y":-0.02035290002822876,"z":-0.0035239458084106447},"rotation":{"x":29.0,"y":14.0,"z":23.0}}

Completion -1.0

Full Model Output:

```
<reasoning>
slide left slightly and tilt probe upward
</reasoning>
<answer>
{"position":{"x":-10,"y":0,"z":0},"rotation":{"x":0,"y":45,"z":0}}
</answer>
```

Extracted Reasoning:

slide left slightly and tilt probe upward

Extracted Answer:

```
{"position":{"x":-10,"y":0,"z":0},"rotation":{"x":0,"y":45,"z":0}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Completion -1.0

Full Model Output:

```
<reasoning>
Roll the probe back slightly and then adjust to a more horizontal
orientation.
</reasoning>
<answer>
{"position":{"x":0,"y":0,"z":0},"rotation":{"x":0,"y":93,"z":0}}
</answer>
```

Extracted Reasoning:

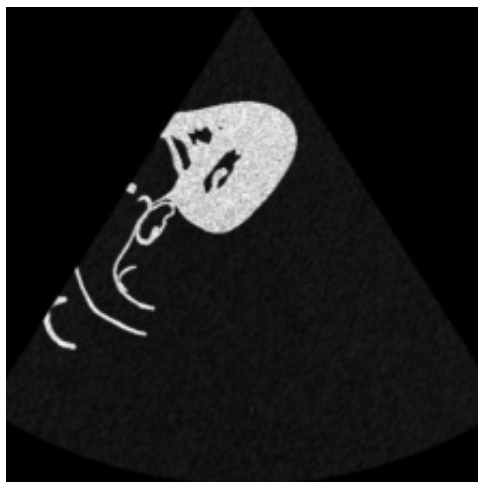
Roll the probe back slightly and then adjust to a more horizontal orientation.

Extracted Answer:

```
{"position":{"x":0,"y":0,"z":0},"rotation":{"x":0,"y":93,"z":0}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Example 4



Prompt:

You will be shown a freeze-frame from a point-of-care ultrasound scan. Return a JSON blob giving the **probe transform** that produces an

optimal
parasternal long-axis (PLAX) view.

Respond **exactly** like this:

```
<reasoning>
(one short sentence - feel free to mention slide / roll / fan / rotate
 / tilt)
</reasoning>
<answer>
{"position":{"x":XX,"y":YY,"z":ZZ},"rotation":{"x":RX,"y":RY,"z":RZ}}
</answer>
```

Do not put any other text after </answer>.

Ground Truth Answer: {"position":{"x":-0.05197792872786522,"y":-0.02014879882335663,"z":-0.0035193562507629396},"rotation":{"x":30.0,"y":12.0,"z":23.0}}

Completion -1.5

Full Model Output:

```
<reasoning>Slide the probe slightly downward and to the left, and then
rotate the probe counterclockwise.</reasoning>
<answer>
{"position":{"x":-5,"y":-15,"z":5},"rotation":{"x":0,"y":-45,"z":0}}
</answer>
```

Extracted Reasoning:

Slide the probe slightly downward and to the left, and then rotate the probe counterclockwise.

Extracted Answer:

```
{"position":{"x":-5,"y":-15,"z":5},"rotation":{"x":0,"y":-45,"z":0}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.0000 |

Completion -1.0

Full Model Output:

```
<reasoning>
Slide probe right and tilt down.
</reasoning>
<answer>
{"position":{"x":200,"y":100},"rotation":{"x":0,"y":0,"z":-45}}
</answer>
```

Extracted Reasoning:

Slide probe right and tilt down.

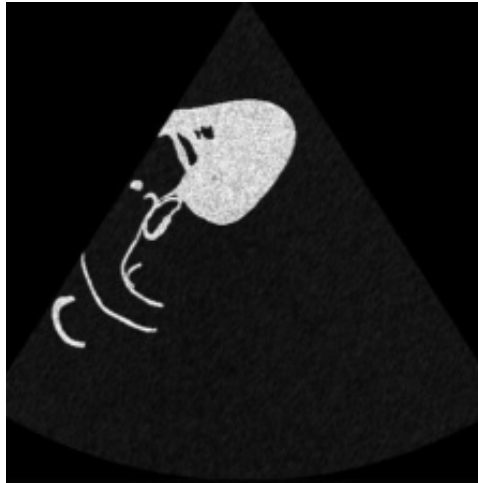
Extracted Answer:

```
{"position":{"x":200,"y":100},"rotation":{"x":0,"y":0,"z":-45}}
```

| Metric | Value |
|---------|---------|
| numeric | -3.0000 |

| | |
|----------|--------|
| keywords | 0.5000 |
| xml | 0.5000 |

Example 5



Prompt:

You will be shown a freeze-frame from a point-of-care ultrasound scan. Return a JSON blob giving the **probe transform** that produces an optimal parasternal long-axis (PLAX) view.

Respond **exactly** like this:

```
<reasoning>
(one short sentence - feel free to mention slide / roll / fan / rotate
/ tilt)
</reasoning>
<answer>
{"position":{"x":XX,"y":YY,"z":ZZ},"rotation":{"x":RX,"y":RY,"z":RZ}}
</answer>
```

Do not put any other text after </answer>.

Ground Truth Answer: {"position":{"x":-0.05263088643550873,"y":-0.021262675523757936,"z":-0.00336572527885437},"rotation":{"x":30.0,"y":13.0,"z":23.0}}

Completion -1.0

Full Model Output:

```
<reasoning>
Slide the probe slightly to the left, roll the probe slightly to the
right, and rotate it a bit clockwise.
</reasoning>
<answer>
{"position":{"x":-10,"y":0,"z":-50},"rotation":{"x":0,"y":10,"z":-5}}
</answer>
```

Extracted Reasoning:

Slide the probe slightly to the left, roll the probe slightly to the right, and rotate it a bit clockwise.

Extracted Answer:

```
{"position":{"x":-10,"y":0,"z":-50},"rotation":{"x":0,"y":10,"z":-5}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Completion -1.0**Full Model Output:**

```
<reasoning>
Slide the probe down and rotate backward.
</reasoning>
<answer>
{"position":{"x":-75,"y":0,"z":0},"rotation":{"x":0,"y":-45,"z":0}}
</answer>
```

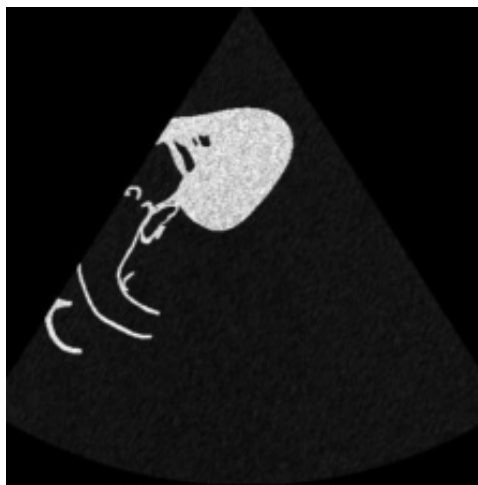
Extracted Reasoning:

Slide the probe down and rotate backward.

Extracted Answer:

```
{"position":{"x":-75,"y":0,"z":0},"rotation":{"x":0,"y":-45,"z":0}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Example 6**Prompt:**

You will be shown a freeze-frame from a point-of-care ultrasound scan.

Return a JSON blob giving the **probe transform** that produces an optimal parasternal long-axis (PLAX) view.

Respond **exactly** like this:

```
<reasoning>
(one short sentence - feel free to mention slide / roll / fan / rotate
 / tilt)
</reasoning>
<answer>
{"position":{"x":XX,"y":YY,"z":ZZ},"rotation":{"x":RX,"y":RY,"z":RZ}}
</answer>
```

Do not put any other text after </answer>.

Ground Truth Answer: {"position":{"x":-0.05299539864063263,"y":-0.02299174666404724,"z":-0.0028792917728424074},"rotation":{"x":31.0,"y":12.0,"z":23.0}}

Completion -2.0

Full Model Output:

```
<answer>
{"position":{"x":0,"y":-108,"z":0},"rotation":{"x":90,"y":0,"z":0}}
</answer>
```

Extracted Reasoning:

N/A

Extracted Answer:

```
{"position":{"x":0,"y":-108,"z":0},"rotation":{"x":90,"y":0,"z":0}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.0000 |
| xml | 0.0000 |

Completion -1.5

Full Model Output:

```
<reasoning>Fan the probe slightly to the left and rotate towards the
patient's right shoulder</reasoning>
<answer>
{"position":{"x":0,"y":0,"z":-15},"rotation":{"x":0,"y":90,"z":0}}
</answer>
```

Extracted Reasoning:

Fan the probe slightly to the left and rotate towards the patient's right shoulder

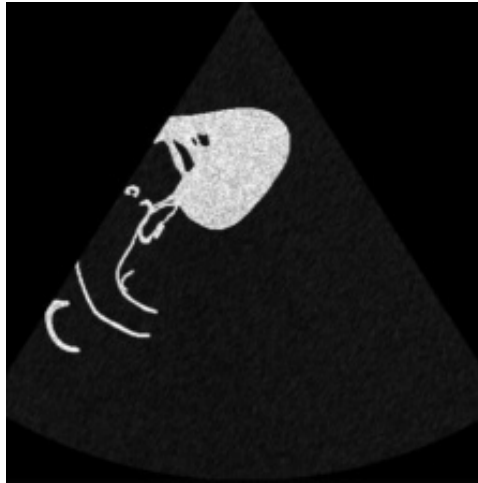
Extracted Answer:

```
{"position":{"x":0,"y":0,"z":-15},"rotation":{"x":0,"y":90,"z":0}}
```

| Metric | Value |
|---------|---------|
| numeric | -3.0000 |

| | |
|----------|--------|
| keywords | 0.5000 |
| xml | 0.0000 |

Example 7



Prompt:

You will be shown a freeze-frame from a point-of-care ultrasound scan. Return a JSON blob giving the **probe transform** that produces an optimal parasternal long-axis (PLAX) view.

Respond **exactly** like this:

```
<reasoning>
(one short sentence - feel free to mention slide / roll / fan / rotate
/ tilt)
</reasoning>
<answer>
{"position":{"x":XX,"y":YY,"z":ZZ},"rotation":{"x":RX,"y":RY,"z":RZ}}
</answer>
```

Do not put any other text after </answer>.

Ground Truth Answer: {"position":{"x":-0.05298867076635361,"y":-0.024206414818763734,"z":-0.0027830302715301515},"rotation":{"x":31.0,"y":12.0,"z":22.0}}

Completion -1.0

Full Model Output:

```
<reasoning>
Slide the probe to the right and tilt down slightly.
</reasoning>
<answer>
{"position":{"x":50,"y":30,"z":20},"rotation":{"x":0,"y":90,"z":0}}
</answer>
```

Extracted Reasoning:

Slide the probe to the right and tilt down slightly.

Extracted Answer:

```
{"position":{"x":50,"y":30,"z":20},"rotation":{"x":0,"y":90,"z":0}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Completion -1.0

Full Model Output:

```
<reasoning>
Slide probe to the left and tilt upwards.
</reasoning>
<answer>
{"position":{"x":-100,"y":0,"z":0},"rotation":{"x":0,"y":0,"z":45}}
</answer>
```

Extracted Reasoning:

Slide probe to the left and tilt upwards.

Extracted Answer:

```
{"position":{"x":-100,"y":0,"z":0},"rotation":{"x":0,"y":0,"z":45}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Example 8



Prompt:

You will be shown a freeze-frame from a point-of-care ultrasound scan. Return a JSON blob giving the **probe transform** that produces an

optimal
parasternal long-axis (PLAX) view.

Respond **exactly** like this:

```
<reasoning>
(one short sentence - feel free to mention slide / roll / fan / rotate
/ tilt)
</reasoning>
<answer>
{"position":{"x":XX,"y":YY,"z":ZZ},"rotation":{"x":RX,"y":RY,"z":RZ}}
</answer>
```

Do not put any other text after </answer>.

Ground Truth Answer: {"position":{"x":-0.05240284278988838,"y":-0.024828225374221803,"z":-0.0022019147872924806},"rotation":{"x":31.0,"y":10.0,"z":21.0}}

Completion -1.0

Full Model Output:

```
<reasoning>
Slide probe left and rotate slightly clockwise.
</reasoning>
<answer>
{"position":{"x":-10,"y":0,"z":0},"rotation":{"x":0,"y":10,"z":0}}
</answer>
```

Extracted Reasoning:

Slide probe left and rotate slightly clockwise.

Extracted Answer:

```
{"position":{"x":-10,"y":0,"z":0},"rotation":{"x":0,"y":10,"z":0}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Completion -1.0

Full Model Output:

```
<reasoning>
Slide to the left, roll slightly to the right, and tilt the probe up.
</reasoning>
<answer>
{"position":{"x":-0.8,"y":0.1,"z":0.1},"rotation":{"x":0.3,"y":-0.2,"z":-0.1}}
</answer>
```

Extracted Reasoning:

Slide to the left, roll slightly to the right, and tilt the probe up.

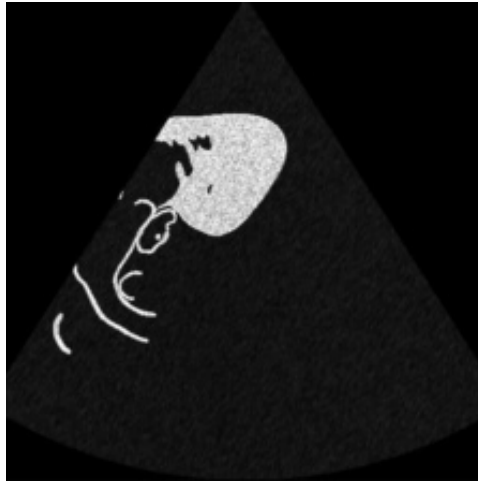
Extracted Answer:

```
{"position":{"x":-0.8,"y":0.1,"z":0.1},"rotation":{"x":0.3,"y":-0.2,"z":-0.1}}
```

| Metric | Value |
|--------|-------|
|--------|-------|

| | |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Example 9



Prompt:

You will be shown a freeze-frame from a point-of-care ultrasound scan. Return a JSON blob giving the **probe transform** that produces an optimal parasternal long-axis (PLAX) view.

Respond **exactly** like this:

```
<reasoning>
(one short sentence - feel free to mention slide / roll / fan / rotate
/ tilt)
</reasoning>
<answer>
{"position":{"x":XX,"y":YY,"z":ZZ},"rotation":{"x":RX,"y":RY,"z":RZ}}
</answer>
```

Do not put any other text after </answer>.

Ground Truth Answer: {"position":{"x":-0.05233291536569595,"y":-0.025199010968208314,"z":-0.002280116081237793},"rotation":{"x":32.0,"y":9.0,"z":21.0}}

Completion -1.0

Full Model Output:

```
<reasoning>
Slide probe to the left and tilt upwards.
</reasoning>
<answer>
{"position":{"x":10,"y":0,"z":0},"rotation":{"x":0,"y":30,"z":0}}
</answer>
```

Extracted Reasoning:

Slide probe to the left and tilt upwards.

Extracted Answer:

```
{"position":{"x":10,"y":0,"z":0},"rotation":{"x":0,"y":30,"z":0}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Completion -1.0**Full Model Output:**

```
<reasoning>
Slide the probe downwards and rotate slightly to the right.
</reasoning>
<answer>
{"position":{"x":120,"y":100,"z":90},"rotation":{"x":0,"y":30,"z":0}}
</answer>
```

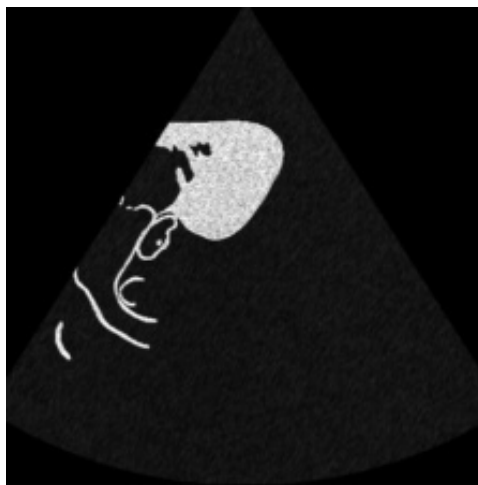
Extracted Reasoning:

Slide the probe downwards and rotate slightly to the right.

Extracted Answer:

```
{"position":{"x":120,"y":100,"z":90},"rotation":{"x":0,"y":30,"z":0}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Example 10**Prompt:**

You will be shown a freeze-frame from a point-of-care ultrasound scan.

Return a JSON blob giving the **probe transform** that produces an optimal parasternal long-axis (PLAX) view.

Respond **exactly** like this:

```
<reasoning>
(one short sentence - feel free to mention slide / roll / fan / rotate
 / tilt)
</reasoning>
<answer>
{"position":{"x":XX,"y":YY,"z":ZZ},"rotation":{"x":RX,"y":RY,"z":RZ}}
</answer>
```

Do not put any other text after </answer>.

Ground Truth Answer: {"position":{"x":-0.052994757890701297,"y":-0.023809358477592469,"z":0.0008187592029571533},"rotation":{"x":31.0,"y":5.0,"z":21.0}}

Completion -1.0

Full Model Output:

```
<reasoning>
roll -10° and tilt -20°
</reasoning>
<answer>
{"position":{"x":0,"y":0,"z":0},"rotation":{"x":0,"y":-10,"z":-20}}
</answer>
```

Extracted Reasoning:

roll -10° and tilt -20°

Extracted Answer:

```
{"position":{"x":0,"y":0,"z":0},"rotation":{"x":0,"y":-10,"z":-20}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Completion -1.0

Full Model Output:

```
<reasoning>
Slide probe slightly to the left and increase the fan angle.
</reasoning>
<answer>
{"position":{"x":-10,"y":0,"z":0},"rotation":{"x":0,"y":0,"z":45}}
</answer>
```

Extracted Reasoning:

Slide probe slightly to the left and increase the fan angle.

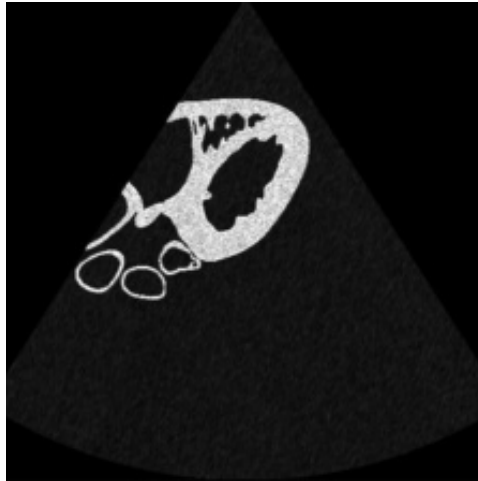
Extracted Answer:

```
{"position":{"x":-10,"y":0,"z":0},"rotation":{"x":0,"y":0,"z":45}}
```

| Metric | Value |
|--------|-------|
|--------|-------|

| | |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Example 11



Prompt:

You will be shown a freeze-frame from a point-of-care ultrasound scan. Return a JSON blob giving the **probe transform** that produces an optimal parasternal long-axis (PLAX) view.

Respond **exactly** like this:

```
<reasoning>
(one short sentence - feel free to mention slide / roll / fan / rotate / tilt)
</reasoning>
<answer>
{"position":{"x":XX,"y":YY,"z":ZZ},"rotation":{"x":RX,"y":RY,"z":RZ}}
</answer>
```

Do not put any other text after </answer>.

Ground Truth Answer: {"position":{"x":-0.05261314660310745,"y":-0.024336546659469606,"z":0.0027676820755004884},"rotation":{"x":33.0,"y":1.0,"z":22.0}}

Completion -1.5

Full Model Output:

```
<reasoning>
Slide the probe down slightly and rotate it to 45 degrees to visualize the PLAX view.
</reasoning>
<answer>{"position":{"x":-15,"y":0,"z":0},"rotation":{"x":0,"y":45,"z":0}}</answer>
```

Extracted Reasoning:

Slide the probe down slightly and rotate it to 45 degrees to visualize the PLAX view.

Extracted Answer:

```
{"position":{"x":-15,"y":0,"z":0},"rotation":{"x":0,"y":45,"z":0}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.0000 |

Completion -1.0**Full Model Output:**

```
<reasoning>
Adjust the probe to position the patient's left breast, then rotate to
capture the left ventricle.
</reasoning>
<answer>
{"position":{"x":180,"y":0,"z":-50},"rotation":{"x":0,"y":45,"z":0}}
</answer>
```

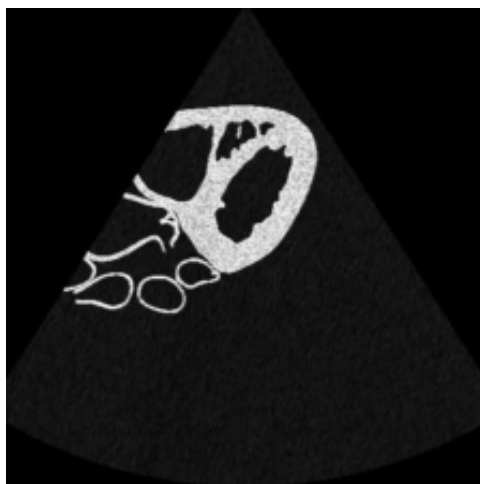
Extracted Reasoning:

Adjust the probe to position the patient's left breast, then rotate to capture the left ventricle.

Extracted Answer:

```
{"position":{"x":180,"y":0,"z":-50},"rotation":{"x":0,"y":45,"z":0}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Example 12

Prompt:

You will be shown a freeze-frame from a point-of-care ultrasound scan. Return a JSON blob giving the **probe transform** that produces an optimal parasternal long-axis (PLAX) view.

Respond **exactly** like this:

```
<reasoning>
(one short sentence - feel free to mention slide / roll / fan / rotate
/ tilt)
</reasoning>
<answer>
{"position":{"x":XX,"y":YY,"z":ZZ},"rotation":{"x":RX,"y":RY,"z":RZ}}
</answer>
```

Do not put any other text after </answer>.

Ground Truth Answer: {"position":{"x":-0.06086133420467377,"y":-0.02439582347869873,"z":0.006329208612442017},"rotation":{"x":30.0,"y":-6.0,"z":17.0}}

Completion -1.0

Full Model Output:

```
<reasoning>
Slide the probe to the left and slightly rotate it clockwise to
achieve the PLAX view.
</reasoning>
<answer>
{"position":{"x":-1,"y":0,"z":0},"rotation":{"x":0,"y":0.1,"z":0}}
</answer>
```

Extracted Reasoning:

Slide the probe to the left and slightly rotate it clockwise to achieve the PLAX view.

Extracted Answer:

```
{"position":{"x":-1,"y":0,"z":0},"rotation":{"x":0,"y":0.1,"z":0}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Completion -1.0

Full Model Output:

```
<reasoning>
Slide the probe slightly to the left and roll back to capture the PLAX
view.
</reasoning>
<answer>
{"position":{"x":-0.1,"y":0.0,"z":0.0},"rotation":{"x":190.0,"y":10.0,
"z":0.0}}
</answer>
```

Extracted Reasoning:

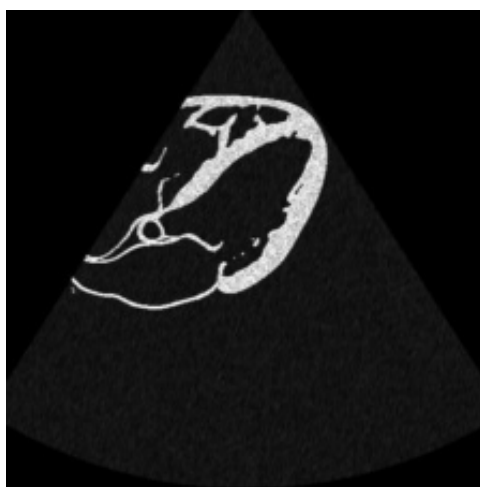
Slide the probe slightly to the left and roll back to capture the PLAX view.

Extracted Answer:

```
{"position":{"x":-0.1,"y":0.0,"z":0.0},"rotation":{"x":190.0,"y":10.0,"z":0.0}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Example 13



Prompt:

You will be shown a freeze-frame from a point-of-care ultrasound scan. Return a JSON blob giving the **probe transform** that produces an optimal parasternal long-axis (PLAX) view.

Respond **exactly** like this:

```
<reasoning>
(one short sentence - feel free to mention slide / roll / fan / rotate
/ tilt)
</reasoning>
<answer>
{"position":{"x":XX,"y":YY,"z":ZZ},"rotation":{"x":RX,"y":RY,"z":RZ}}
</answer>
```

Do not put any other text after </answer>.

Ground Truth Answer: {"position":{"x":-0.05959923937916756,"y":-0.026618927717208864,"z":0.0015810728073120118},"rotation":{"x":33.0,"y":-5.0,"z":16.0}}

Completion -1.0

Full Model Output:

```
<reasoning>
Slide the probe slightly right and tilt it down to align the heart
```

```

long axis.
</reasoning>
<answer>
{"position":{"x":0.2,"y":0.1,"z":0.3},"rotation":{"x":-10,"y":0,"z":15}}
</answer>

```

Extracted Reasoning:

Slide the probe slightly right and tilt it down to align the heart long axis.

Extracted Answer:

```

{"position":{"x":0.2,"y":0.1,"z":0.3},"rotation":{"x":-10,"y":0,"z":15}}

```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Completion -1.0

Full Model Output:

```

<reasoning>
Slide the probe to the left and slightly up, and rotate the probe clockwise.
</reasoning>
<answer>
{"position":{"x":70,"y":-50,"z":0},"rotation":{"x":0,"y":45,"z":0}}
</answer>

```

Extracted Reasoning:

Slide the probe to the left and slightly up, and rotate the probe clockwise.

Extracted Answer:

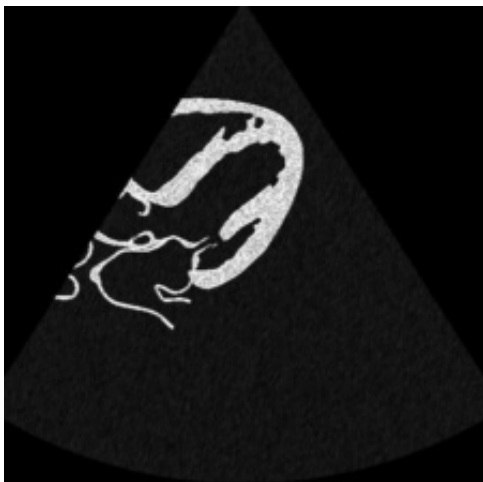
```

{"position":{"x":70,"y":-50,"z":0},"rotation":{"x":0,"y":45,"z":0}}

```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Example 14



Prompt:

You will be shown a freeze-frame from a point-of-care ultrasound scan. Return a JSON blob giving the **probe transform** that produces an optimal parasternal long-axis (PLAX) view.

Respond **exactly** like this:

```
<reasoning>
(one short sentence - feel free to mention slide / roll / fan / rotate
/ tilt)
</reasoning>
<answer>
{"position":{"x":XX,"y":YY,"z":ZZ},"rotation":{"x":RX,"y":RY,"z":RZ}}
</answer>
```

Do not put any other text after </answer>.

Ground Truth Answer: {"position":{"x":-0.05505891889333725,"y":-0.02859523892402649,"z":0.0010935962200164796},"rotation":{"x":36.0,"y":-6.0,"z":18.0}}

Completion -1.0

Full Model Output:

```
<reasoning>
Slide the probe left and rotate it 90 degrees clockwise.
</reasoning>
<answer>
{"position":{"x":-40,"y":0,"z":0},"rotation":{"x":0,"y":90,"z":0}}
</answer>
```

Extracted Reasoning:

Slide the probe left and rotate it 90 degrees clockwise.

Extracted Answer:

```
{"position":{"x":-40,"y":0,"z":0},"rotation":{"x":0,"y":90,"z":0}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |

| | |
|-----|--------|
| xml | 0.5000 |
|-----|--------|

Completion -1.0

Full Model Output:

```
<reasoning>
Slide the probe to the left and tilt up to view the PLAX view.
</reasoning>
<answer>
{"position":{"x":-30,"y":0,"z":0},"rotation":{"x":0,"y":0,"z":90}}
</answer>
```

Extracted Reasoning:

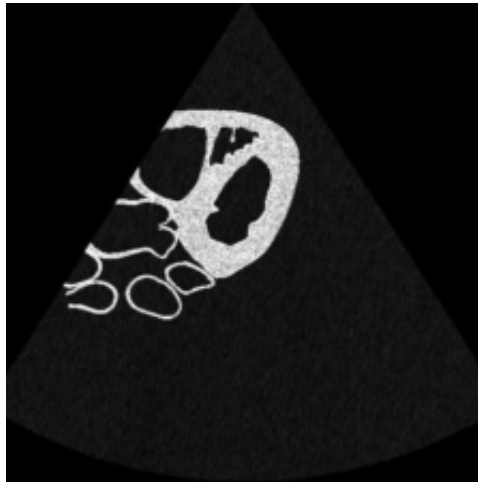
Slide the probe to the left and tilt up to view the PLAX view.

Extracted Answer:

```
{"position":{"x":-30,"y":0,"z":0},"rotation":{"x":0,"y":0,"z":90}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Example 15



Prompt:

You will be shown a freeze-frame from a point-of-care ultrasound scan. Return a JSON blob giving the **probe transform** that produces an optimal parasternal long-axis (PLAX) view.

Respond **exactly** like this:

```
<reasoning>
(one short sentence - feel free to mention slide / roll / fan / rotate
/ tilt)
</reasoning>
```

```
<answer>
{"position":{"x":XX,"y":YY,"z":ZZ},"rotation":{"x":RX,"y":RY,"z":RZ}}
</answer>
```

Do not put any other text after </answer>.

Ground Truth Answer: {"position":{"x":-0.05797026678919792,"y":-0.03002116084098816,"z":-0.0024569332599639894},"rotation":{"x":35.0,"y":-4.0,"z":16.0}}

Completion -1.0

Full Model Output:

```
<reasoning>
Slide the probe upwards and tilt it slightly to the right.
</reasoning>
<answer>
{"position":{"x":0,"y":70,"z":0},"rotation":{"x":5,"y":0,"z":40}}
</answer>
```

Extracted Reasoning:

Slide the probe upwards and tilt it slightly to the right.

Extracted Answer:

```
{"position":{"x":0,"y":70,"z":0},"rotation":{"x":5,"y":0,"z":40}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Completion -1.0

Full Model Output:

```
<reasoning>
Slide the probe slightly to the right.
</reasoning>
<answer>
{"position":{"x":-15,"y":0,"z":0},"rotation":{"x":0,"y":0,"z":0}}
</answer>
```

Extracted Reasoning:

Slide the probe slightly to the right.

Extracted Answer:

```
{"position":{"x":-15,"y":0,"z":0},"rotation":{"x":0,"y":0,"z":0}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Example 16



Prompt:

You will be shown a freeze-frame from a point-of-care ultrasound scan. Return a JSON blob giving the **probe transform** that produces an optimal parasternal long-axis (PLAX) view.

Respond **exactly** like this:

```
<reasoning>
(one short sentence - feel free to mention slide / roll / fan / rotate
 / tilt)
</reasoning>
<answer>
{"position":{"x":XX,"y":YY,"z":ZZ},"rotation":{"x":RX,"y":RY,"z":RZ}}
</answer>
```

Do not put any other text after </answer>.

Ground Truth Answer: {"position":{"x":-0.05490908771753311,"y":-0.0309017151594162,"z":-0.00022047758102416992},"rotation":{"x":36.0,"y":-7.0,"z":16.0}}

Completion -1.0

Full Model Output:

```
<reasoning>
Slide probe to the left and rotate slightly to the right.
</reasoning>
<answer>
{"position":{"x":-50,"y":0,"z":0},"rotation":{"x":0,"y":20,"z":0}}
</answer>
```

Extracted Reasoning:

Slide probe to the left and rotate slightly to the right.

Extracted Answer:

{"position":{"x":-50,"y":0,"z":0},"rotation":{"x":0,"y":20,"z":0}}

| Metric | Value |
|---------|---------|
| numeric | -3.0000 |

| | |
|----------|--------|
| keywords | 0.5000 |
| xml | 0.5000 |

Completion -1.0

Full Model Output:

```
<reasoning>
Slide probe up and to the left, fan to the right.
</reasoning>
<answer>
{"position":{"x":-50,"y":50,"z":0},"rotation":{"x":0,"y":60,"z":0}}
</answer>
```

Extracted Reasoning:

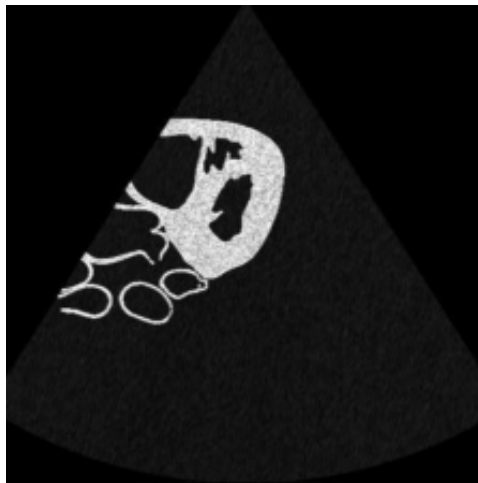
Slide probe up and to the left, fan to the right.

Extracted Answer:

```
{"position":{"x":-50,"y":50,"z":0},"rotation":{"x":0,"y":60,"z":0}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Example 17



Prompt:

You will be shown a freeze-frame from a point-of-care ultrasound scan. Return a JSON blob giving the **probe transform** that produces an optimal parasternal long-axis (PLAX) view.

Respond **exactly** like this:

```
<reasoning>
(one short sentence - feel free to mention slide / roll / fan / rotate
```

```
/ tilt)
</reasoning>
<answer>
{"position":{"x":XX,"y":YY,"z":ZZ},"rotation":{"x":RX,"y":RY,"z":RZ}}
</answer>
```

Do not put any other text after </answer>.

Ground Truth Answer: {"position":{"x":-0.05487971752882004,"y":-0.03166823089122772,"z":-0.002008676528930664},"rotation":{"x":37.0,"y":-7.0,"z":16.0}}

Completion -1.0

Full Model Output:

```
<reasoning>
Slide to the left and rotate the probe clockwise.
</reasoning>
<answer>
{"position":{"x":-10,"y":0,"z":0},"rotation":{"x":0,"y":25,"z":0}}
</answer>
```

Extracted Reasoning:

Slide to the left and rotate the probe clockwise.

Extracted Answer:

```
{"position":{"x":-10,"y":0,"z":0},"rotation":{"x":0,"y":25,"z":0}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Completion -1.0

Full Model Output:

```
<reasoning>
Rotate the probe 90 degrees counterclockwise
</reasoning>
<answer>
{"position":{"x":0,"y":0,"z":0},"rotation":{"x":0,"y":0,"z":90}}
</answer>
```

Extracted Reasoning:

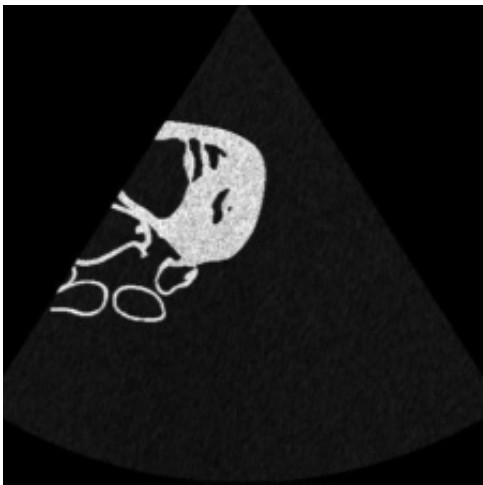
Rotate the probe 90 degrees counterclockwise

Extracted Answer:

```
{"position":{"x":0,"y":0,"z":0},"rotation":{"x":0,"y":0,"z":90}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Example 18



Prompt:

You will be shown a freeze-frame from a point-of-care ultrasound scan. Return a JSON blob giving the **probe transform** that produces an optimal parasternal long-axis (PLAX) view.

Respond **exactly** like this:

```
<reasoning>
(one short sentence - feel free to mention slide / roll / fan / rotate
 / tilt)
</reasoning>
<answer>
{"position":{"x":XX,"y":YY,"z":ZZ},"rotation":{"x":RX,"y":RY,"z":RZ}}
</answer>
```

Do not put any other text after </answer>.

Ground Truth Answer: {"position":{"x":-0.054772332310676578,"y":-0.031630948185920718,"z":-0.003184080123901367},"rotation":{"x":38.0,"y":-9.0,"z":13.0}}

Completion -1.0

Full Model Output:

```
<reasoning>
Fan the probe outwards and slightly upward.
</reasoning>
<answer>
{"position":{"x":0,"y":0,"z":0},"rotation":{"x":0,"y":90,"z":0}}
</answer>
```

Extracted Reasoning:

Fan the probe outwards and slightly upward.

Extracted Answer:

{"position":{"x":0,"y":0,"z":0},"rotation":{"x":0,"y":90,"z":0}}

| Metric | Value |
|---------|---------|
| numeric | -3.0000 |

| | |
|----------|--------|
| keywords | 0.5000 |
| xml | 0.5000 |

Completion -1.0

Full Model Output:

```
<reasoning>
Slide the probe towards the patient's left side and tilt forward to
capture the PLAX view.
</reasoning>
<answer>
{"position":{"x":80,"y":10,"z":50},"rotation":{"x":0,"y":0,"z":5}}
</answer>
```

Extracted Reasoning:

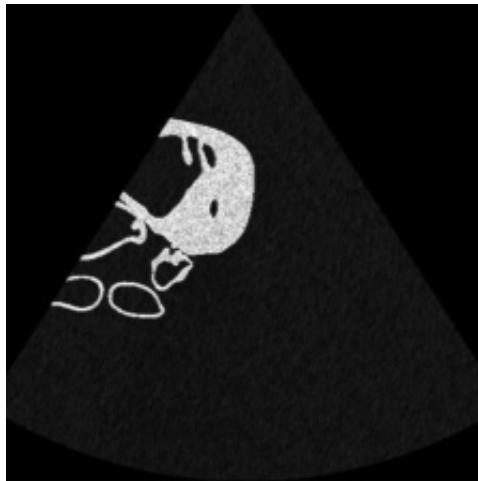
Slide the probe towards the patient's left side and tilt forward to capture the PLAX view.

Extracted Answer:

```
{"position":{"x":80,"y":10,"z":50},"rotation":{"x":0,"y":0,"z":5}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Example 19



Prompt:

You will be shown a freeze-frame from a point-of-care ultrasound scan. Return a JSON blob giving the **probe transform** that produces an optimal parasternal long-axis (PLAX) view.

Respond **exactly** like this:

```
<reasoning>
(one short sentence - feel free to mention slide / roll / fan / rotate
/ tilt)
</reasoning>
<answer>
{"position":{"x":XX,"y":YY,"z":ZZ},"rotation":{"x":RX,"y":RY,"z":RZ}}
</answer>
```

Do not put any other text after </answer>.

Ground Truth Answer: {"position":{"x":-0.054352641105651858,"y":-0.031267374753952029,"z":-0.03087759017944336},"rotation":{"x":38.0,"y":-11.0,"z":12.0}}

Completion -1.0

Full Model Output:

```
<reasoning>
Slide the probe towards the apex and rotate slightly.
</reasoning>
<answer>
{"position":{"x":1,"y":2,"z":3},"rotation":{"x":20,"y":30,"z":40}}
</answer>
```

Extracted Reasoning:

Slide the probe towards the apex and rotate slightly.

Extracted Answer:

```
{"position":{"x":1,"y":2,"z":3},"rotation":{"x":20,"y":30,"z":40}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Completion -1.0

Full Model Output:

```
<reasoning>
Slide the probe slightly to the left and rotate it counterclockwise
towards a parasternal long-axis view.
</reasoning>
<answer>
{"position":{"x":-50,"y":0,"z":0},"rotation":{"x":0,"y":-45,"z":0}}
</answer>
```

Extracted Reasoning:

Slide the probe slightly to the left and rotate it counterclockwise towards a parasternal long-axis view.

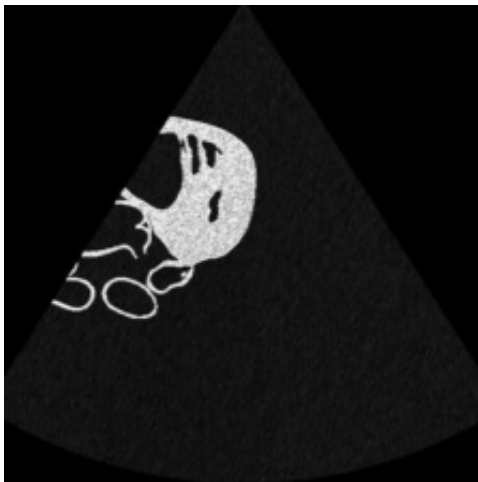
Extracted Answer:

```
{"position":{"x":-50,"y":0,"z":0},"rotation":{"x":0,"y":-45,"z":0}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |

| | |
|-----|--------|
| xml | 0.5000 |
|-----|--------|

Example 20



Prompt:

You will be shown a freeze-frame from a point-of-care ultrasound scan. Return a JSON blob giving the **probe transform** that produces an optimal parasternal long-axis (PLAX) view.

Respond **exactly** like this:

```
<reasoning>
(one short sentence - feel free to mention slide / roll / fan / rotate
 / tilt)
</reasoning>
<answer>
{"position":{"x":XX,"y":YY,"z":ZZ},"rotation":{"x":RX,"y":RY,"z":RZ}}
</answer>
```

Do not put any other text after </answer>.

Ground Truth Answer: {"position":{"x":-0.0540967658162117,"y":-0.030985325574874879,"z":-0.004267305135726929},"rotation":{"x":38.0,"y":-12.0,"z":11.0}}

Completion -1.0

Full Model Output:

```
<reasoning>
slide left and lower the probe
</reasoning>
<answer>
{"position":{"x":-1,"y":-1,"z":-1},"rotation":{"x":0,"y":0,"z":0}}
</answer>
```

Extracted Reasoning:

slide left and lower the probe

Extracted Answer:

```
{"position":{"x":-1,"y":-1,"z":-1},"rotation":{"x":0,"y":0,"z":0}}
```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |

Completion -1.0

Full Model Output:

```

<reasoning>
Slide the probe clockwise and tilt slightly forward.
</reasoning>
<answer>
{"position":{"x":-0.5,"y":0.3,"z":0.2},"rotation":{"x":0.1,"y":0.5,"z":-0.2}}
</answer>

```

Extracted Reasoning:

Slide the probe clockwise and tilt slightly forward.

Extracted Answer:

```

{"position":{"x":-0.5,"y":0.3,"z":0.2},"rotation":{"x":0.1,"y":0.5,"z":-0.2}}

```

| Metric | Value |
|----------|---------|
| numeric | -3.0000 |
| keywords | 0.5000 |
| xml | 0.5000 |