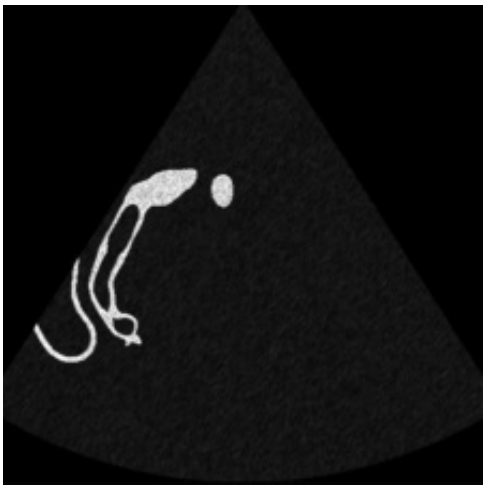


Example 1



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>
Tilt the probe slightly downward to visualize the left ventricle.
</reasoning>
<answer>
{"position":{"x":0,"y":0,"z":0},"rotation":{"x":0,"y":0,"z":0}}
</answer>
```

Extracted Reasoning:

Tilt the probe slightly downward to visualize the left ventricle.

Extracted Answer:

{"position":{"x":0,"y":0,"z":0},"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 slightly to the right and adjust the tilt to align the
heart long axis.
</reasoning>
<answer>
{"position":{"x":0,"y":0,"z":0},"rotation":{"x":0,"y":0,"z":10}}
</answer>
```

#### Extracted Reasoning:

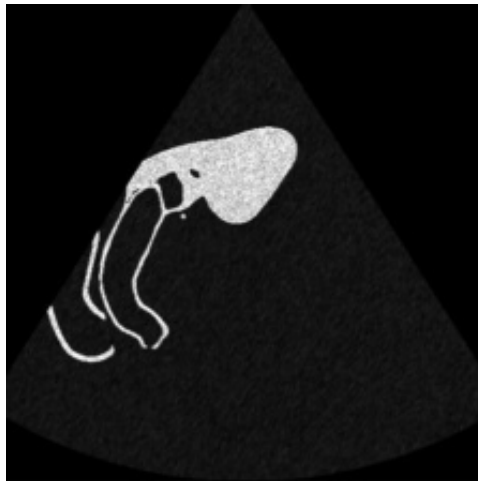
Slide the probe slightly to the right and adjust the tilt to align the heart long axis.

#### Extracted Answer:

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

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>
Slide left, tilt upward
</reasoning>
<answer>
{"position":{"x":-100,"y":50,"z":0},"rotation":{"x":0,"y":45,"z":0}}
</answer>
```

#### Extracted Reasoning:

Slide left, tilt upward

#### Extracted Answer:

```
{"position":{"x":-100,"y":50,"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>
Slide the probe slightly to the left and tilt it backward.
</reasoning>
<answer>
{"position":{"x":-5,"y":0,"z":0},"rotation":{"x":0,"y":-30,"z":0}}
</answer>
```

#### Extracted Reasoning:

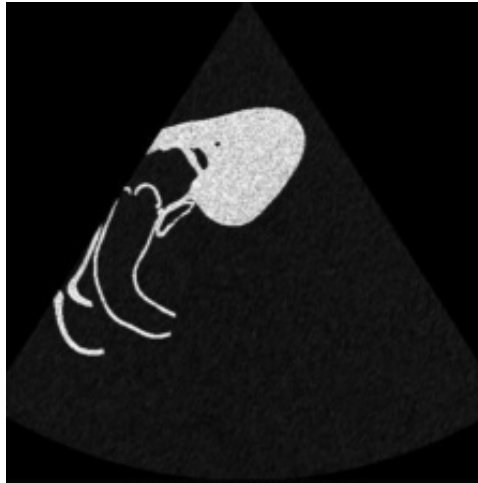
Slide the probe slightly to the left and tilt it backward.

#### Extracted Answer:

```
{"position":{"x":-5,"y":0,"z":0},"rotation":{"x":0,"y":-30,"z":0}}
```

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 -1.5

### Full Model Output:

```
<reasoning>
The optimal probe transform for a parasternal long-axis view involves
tilting the probe slightly downwards and rotating it clockwise.
</reasoning>
<answer>
{"position":{"x":-10,"y":5,"z":0},"rotation":{"x":0,"y":30,"z":0}}
</answer>
```

### Extracted Reasoning:

The optimal probe transform for a parasternal long-axis view involves tilting the probe slightly downwards and rotating it clockwise.

### Extracted Answer:

```
{"position":{"x":-10,"y":5,"z":0},"rotation":{"x":0,"y":30,"z":0}}
```

Metric	Value
numeric	-3.0000
keywords	0.0000
xml	0.5000

### Completion -1.5

#### Full Model Output:

```
<reasoning>
Adjust the probe to aim slightly upward to create the parasternal
long-axis view.
</reasoning>
<answer>
{"position":{"x":0,"y":-50,"z":20},"rotation":{"x":0,"y":20,"z":90}}
</answer>
```

#### Extracted Reasoning:

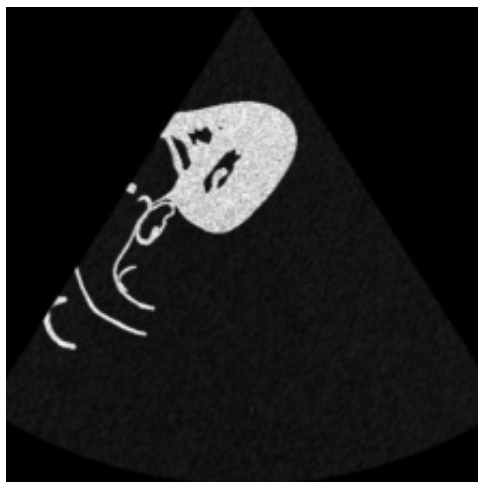
Adjust the probe to aim slightly upward to create the parasternal long-axis view.

#### Extracted Answer:

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

Metric	Value
numeric	-3.0000
keywords	0.0000
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 -1.0

#### Full Model Output:

```
<reasoning>
Slide the probe slightly right and tilt it down.
</reasoning>
<answer>
{"position":{"x":0,"y":-2,"z":-10},"rotation":{"x":0,"y":30,"z":0}}
</answer>
```

#### Extracted Reasoning:

Slide the probe slightly right and tilt it down.

#### Extracted Answer:

```
{"position":{"x":0,"y":-2,"z":-10},"rotation":{"x":0,"y":30,"z":0}}
```

Metric	Value
numeric	-3.0000
keywords	0.5000
xml	0.5000

### Completion -1.5

#### Full Model Output:

```
<reasoning>
The probe is angled slightly upwards and towards the patient's right
side.
</reasoning>
<answer>
{"position":{"x":0.2,"y":0.4,"z":0.3},"rotation":{"x":-10,"y":15,"z":0
}}
</answer>
```

#### Extracted Reasoning:

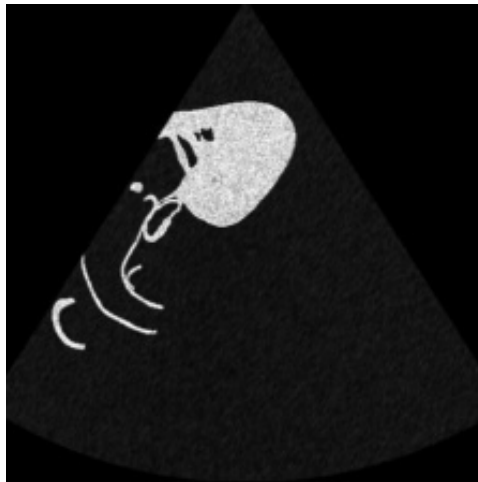
The probe is angled slightly upwards and towards the patient's right side.

#### Extracted Answer:

```
{"position":{"x":0.2,"y":0.4,"z":0.3},"rotation":{"x":-10,"y":15,"z":0
}}
```

Metric	Value
numeric	-3.0000
keywords	0.0000
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 down the probe and tilt towards the left side.
</reasoning>
<answer>
{"position":{"x":0,"y":-100,"z":0},"rotation":{"x":0,"y":0,"z":-45}}
</answer>
```

**Extracted Reasoning:**

Slide down the probe and tilt towards the left side.

**Extracted Answer:**

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

Metric	Value
numeric	-3.0000
keywords	0.5000
xml	0.5000

**Completion -1.5****Full Model Output:**

```
<reasoning>
The probe needs to be rotated slightly counterclockwise and tilted
upwards to align the vessel for PLAX view.
</reasoning>
<answer>
{"position":{"x":0,"y":0,"z":0},"rotation":{"x":-30,"y":0,"z":20}}
</answer>
```

**Extracted Reasoning:**

The probe needs to be rotated slightly counterclockwise and tilted upwards to align the vessel for PLAX view.

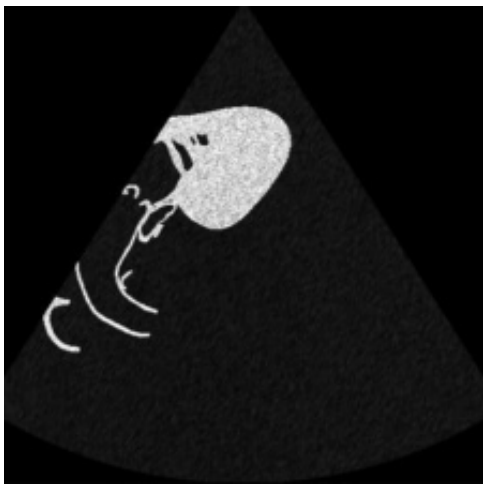
**Extracted Answer:**

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

Metric	Value
numeric	-3.0000
keywords	0.0000
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 -1.0**

**Full Model Output:**

```
<reasoning>
Roll slightly and tilt back for a clearer view.
</reasoning>
<answer>
{"position":{"x":0,"y":0,"z":0},"rotation":{"x":0,"y":45,"z":0}}
</answer>
```

**Extracted Reasoning:**

Roll slightly and tilt back for a clearer view.

**Extracted Answer:**

{"position":{"x":0,"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>
Slide the probe towards the inferior direction.
</reasoning>
<answer>
{"position":{"x":-45,"y":-20,"z":0},"rotation":{"x":0,"y":0,"z":0}}
</answer>
```

#### Extracted Reasoning:

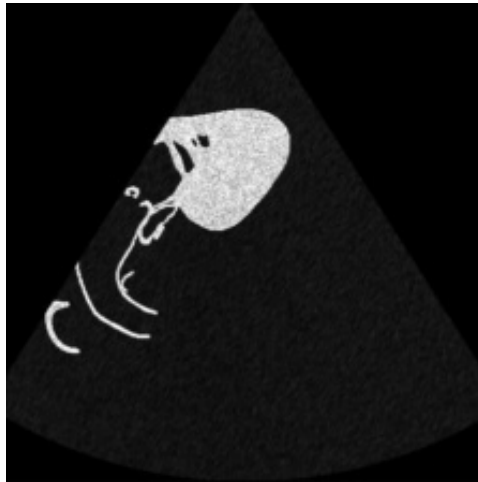
Slide the probe towards the inferior direction.

#### Extracted Answer:

```
{"position":{"x":-45,"y":-20,"z":0},"rotation":{"x":0,"y":0,"z":0}}
```

Metric	Value
numeric	-3.0000
keywords	0.5000
xml	0.5000

### 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 slightly to the right and adjust the tilt to
approximately 45 degrees.
</reasoning>
<answer>
{"position":{"x":0,"y":-5,"z":0},"rotation":{"x":0,"y":45,"z":0}}
</answer>
```

#### Extracted Reasoning:

Slide the probe slightly to the right and adjust the tilt to approximately 45 degrees.

#### Extracted Answer:

```
{"position":{"x":0,"y":-5,"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>
Slide to the left and tilt the probe slightly upward.
</reasoning>
<answer>
{"position":{"x":-10,"y":0,"z":0},"rotation":{"x":0,"y":0,"z":5}}
</answer>
```

#### Extracted Reasoning:

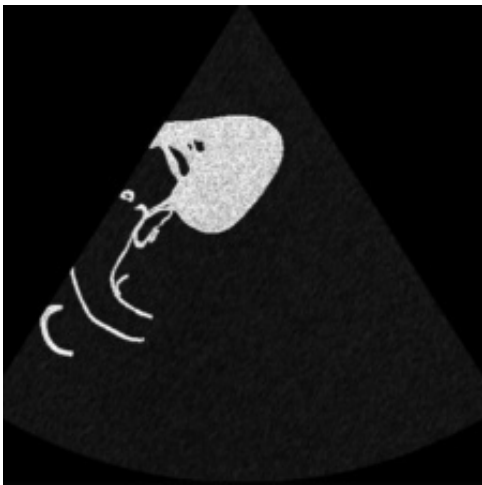
Slide to the left and tilt the probe slightly upward.

#### Extracted Answer:

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

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

Extracted Reasoning:

slide and rotate the probe to the right.

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 inferiorly and rotate counterclockwise.
</reasoning>
<answer>
{"position":{"x":2,"y":7,"z":2},"rotation":{"x":20,"y":45,"z":0}}
</answer>
```

#### Extracted Reasoning:

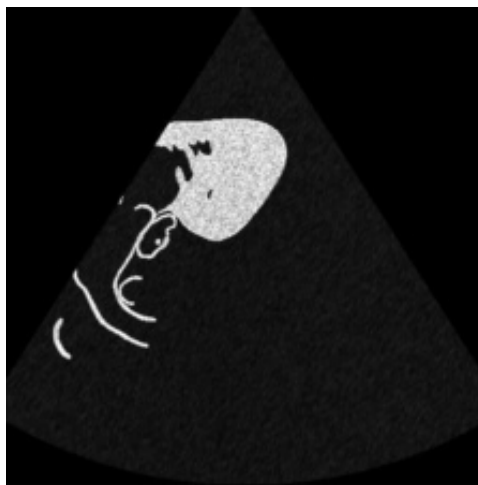
Slide the probe inferiorly and rotate counterclockwise.

#### Extracted Answer:

```
{"position":{"x":2,"y":7,"z":2},"rotation":{"x":20,"y":45,"z":0}}
```

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 and rotate slightly to align the left ventricle properly.
</reasoning>
<answer>
{"position":{"x":-20,"y":0,"z":0},"rotation":{"x":0,"y":0,"z":0}}
</answer>
```

#### Extracted Reasoning:

Slide and rotate slightly to align the left ventricle properly.

#### Extracted Answer:

```
{"position":{"x":-20,"y":0,"z":0},"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>
Rotate the probe clockwise and tilt slightly forward.
</reasoning>
<answer>
{"position":{"x":0,"y":-30,"z":-15},"rotation":{"x":0,"y":-30,"z":0}}
</answer>
```

#### Extracted Reasoning:

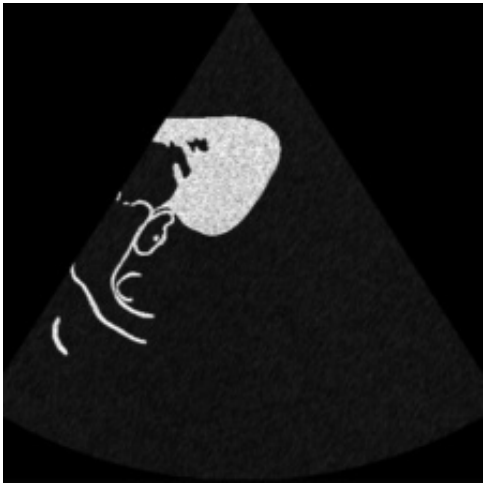
Rotate the probe clockwise and tilt slightly forward.

#### Extracted Answer:

```
{"position":{"x":0,"y":-30,"z":-15},"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>
Fan the probe to the left and adjust the image to show the left
ventricle in the center of the screen.
</reasoning>
<answer>
{"position":{"x":-10,"y":0,"z":20},"rotation":{"x":0,"y":0,"z":0}}
</answer>
```

Extracted Reasoning:

Fan the probe to the left and adjust the image to show the left ventricle in the center of the screen.

Extracted Answer:

```
{"position":{"x":-10,"y":0,"z":20},"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 up to align the left ventricle.
</reasoning>
<answer>
{"position":{"x":0,"y":-250,"z":0},"rotation":{"x":0,"y":0,"z":90}}
</answer>
```

#### Extracted Reasoning:

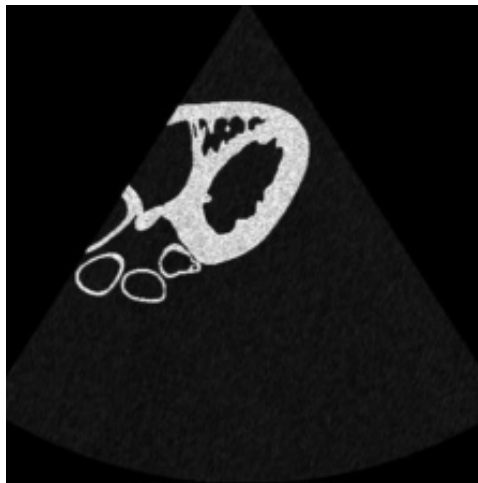
slide up to align the left ventricle.

#### Extracted Answer:

```
{"position":{"x":0,"y":-250,"z":0},"rotation":{"x":0,"y":0,"z":90}}
```

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 -1.0

#### Full Model Output:

```
<reasoning>
Slide probe right, tilt probe upwards.
</reasoning>
<answer>
{"position":{"x":0,"y":-50,"z":50},"rotation":{"x":0,"y":30,"z":45}}
</answer>
```

#### Extracted Reasoning:

Slide probe right, tilt probe upwards.

#### Extracted Answer:

```
{"position":{"x":0,"y":-50,"z":50},"rotation":{"x":0,"y":30,"z":45}}
```

Metric	Value
numeric	-3.0000
keywords	0.5000
xml	0.5000

### Completion -1.0

#### Full Model Output:

```
<reasoning>
Rotate the probe to the left and tilt it upwards.
</reasoning>
<answer>
{"position":{"x":150,"y":150,"z":0},"rotation":{"x":0,"y":-45,"z":20}}
</answer>
```

#### Extracted Reasoning:

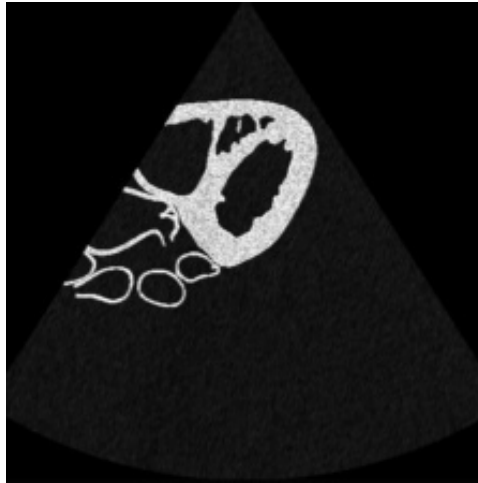
Rotate the probe to the left and tilt it upwards.

#### Extracted Answer:

```
{"position":{"x":150,"y":150,"z":0},"rotation":{"x":0,"y":-45,"z":20}}
```

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 probe slightly upward and rotate slightly to the right.
</reasoning>
<answer>
{"position":{"x":-5,"y":20,"z":0},"rotation":{"x":0,"y":-30,"z":0}}
</answer>
```

#### Extracted Reasoning:

Slide probe slightly upward and rotate slightly to the right.

#### Extracted Answer:

```
{"position":{"x":-5,"y":20,"z":0},"rotation":{"x":0,"y":-30,"z":0}}
```

Metric	Value
numeric	-3.0000
keywords	0.5000
xml	0.5000

### Completion -1.5

#### Full Model Output:

```

<reasoning>
The image is an ultrasound view of the heart, suggesting a parasternal long-axis view is being sought. The probe appears to be centered on the left ventricle, indicating a need to adjust the probe slightly to the left and slightly downward to capture the long-axis view.
</reasoning>
<answer>
{"position":{"x":-20,"y":-30,"z":0},"rotation":{"x":-15,"y":0,"z":0}}
</answer>

```

#### Extracted Reasoning:

The image is an ultrasound view of the heart, suggesting a parasternal long-axis view is being sought. The probe appears to be centered on the left ventricle, indicating a need to adjust the probe slightly to the left and slightly downward to capture the long-axis view.

#### Extracted Answer:

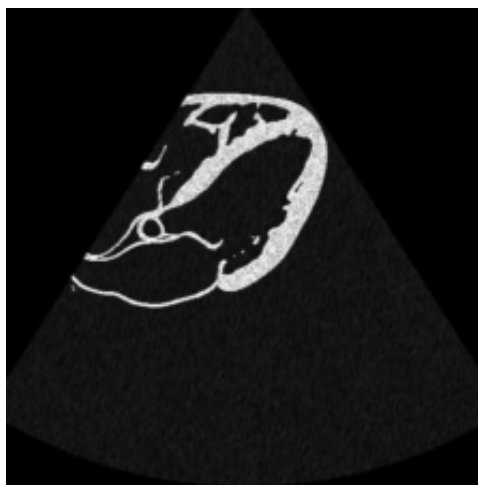
```

{"position":{"x":-20,"y":-30,"z":0},"rotation":{"x":-15,"y":0,"z":0}}

```

Metric	Value
numeric	-3.0000
keywords	0.0000
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>
Fan tilt and probe rotate slightly to align the long axis view.
</reasoning>
<answer>
{"position":{"x":102,"y":153,"z":47},"rotation":{"x":20,"y":-15,"z":30}}
</answer>
```

**Extracted Reasoning:**

Fan tilt and probe rotate slightly to align the long axis view.

**Extracted Answer:**

```
{"position":{"x":102,"y":153,"z":47},"rotation":{"x":20,"y":-15,"z":30}}
```

Metric	Value
numeric	-3.0000
keywords	0.5000
xml	0.5000

**Completion -1.0**

**Full Model Output:**

```
<reasoning>
Slide the probe slightly upwards and rotate it to the left.
</reasoning>
<answer>
{"position":{"x":0,"y":-80,"z":0},"rotation":{"x":0,"y":-30,"z":0}}
</answer>
```

**Extracted Reasoning:**

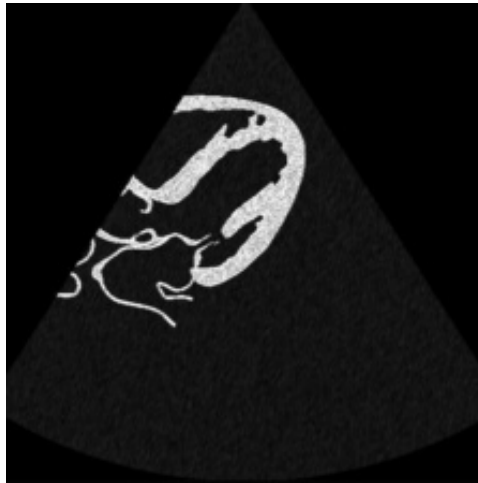
Slide the probe slightly upwards and rotate it to the left.

**Extracted Answer:**

```
{"position":{"x":0,"y":-80,"z":0},"rotation":{"x":0,"y":-30,"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 -1.5

### Full Model Output:

```
<reasoning>
The ultrasound image is rotated and needs to be adjusted to align the
heart's long axis.
</reasoning>
<answer>
```

```
{"position":{"x":0,"y":0,"z":0},"rotation":{"x":0,"y":0,"z":45}}
</answer>
```

**Extracted Reasoning:**

The ultrasound image is rotated and needs to be adjusted to align the heart's long axis.

**Extracted Answer:**

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

Metric	Value
numeric	-3.0000
keywords	0.0000
xml	0.5000

**Completion -1.0**

**Full Model Output:**

```
<reasoning>
The image looks like a transverse view, so I need to tilt the probe
slightly clockwise to get a parasternal long-axis view.
</reasoning>
<answer>
{"position":{"x":-20,"y":0,"z":0},"rotation":{"x":0,"y":-30,"z":0}}
</answer>
```

**Extracted Reasoning:**

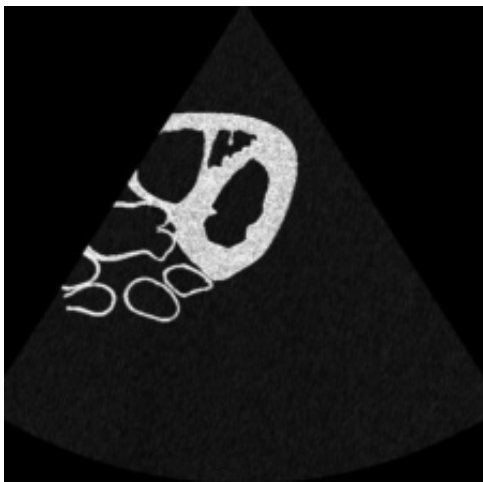
The image looks like a transverse view, so I need to tilt the probe slightly clockwise to get a parasternal long-axis view.

**Extracted Answer:**

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

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 -2.0**

**Full Model Output:**

The probe shows a right parasternal view, which is commonly aligned for a PLAX view.

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

**Extracted Reasoning:**

N/A

**Extracted Answer:**

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

Metric	Value
numeric	-3.0000
keywords	0.0000

xml	0.0000
-----	--------

### Completion -1.5

#### Full Model Output:

```
<reasoning>slide the probe down, fan slightly upwards, rotate probe clockwise.</reasoning>
<answer>
{"position":{"x":100,"y":-50,"z":0},"rotation":{"x":90,"y":0,"z":10}}
</answer>
```

#### Extracted Reasoning:

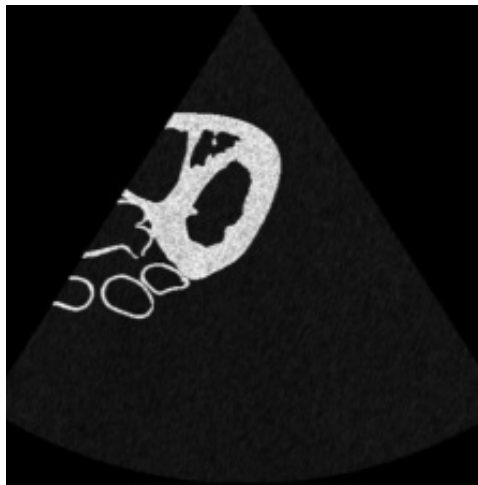
slide the probe down, fan slightly upwards, rotate probe clockwise.

#### Extracted Answer:

```
{"position":{"x":100,"y":-50,"z":0},"rotation":{"x":90,"y":0,"z":10}}
```

Metric	Value
numeric	-3.0000
keywords	0.5000
xml	0.0000

### 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 tilt it slightly upward.
</reasoning>
<answer>
{"position":{"x":20,"y":10,"z":-20},"rotation":{"x":-10,"y":0,"z":15}}
</answer>
```

#### Extracted Reasoning:

Slide probe to the left and tilt it slightly upward.

#### Extracted Answer:

```
{"position":{"x":20,"y":10,"z":-20},"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 slightly right and tilt it downward.
</reasoning>
<answer>
{"position":{"x":200,"y":100,"z":50},"rotation":{"x":0,"y":-30,"z":0}}
</answer>
```

#### Extracted Reasoning:

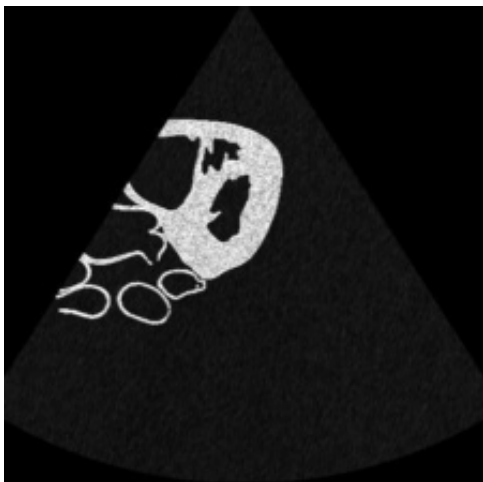
Slide the probe slightly right and tilt it downward.

#### Extracted Answer:

```
{"position":{"x":200,"y":100,"z":50},"rotation":{"x":0,"y":-30,"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>
Fan tilt and rotation
</reasoning>
<answer>
{"position":{"x":10,"y":15,"z":0},"rotation":{"x":0,"y":90,"z":0}}
</answer>
```

**Extracted Reasoning:**

Fan tilt and rotation

**Extracted Answer:**

{"position":{"x":10,"y":15,"z":0},"rotation":{"x":0,"y":90,"z":0}}

Metric	Value
numeric	-3.0000
keywords	0.5000

xml	0.5000
-----	--------

## Completion -2.0

### Full Model Output:

```
<answer>
{"position":{"x":0,"y":0,"z":0},"rotation":{"x":0,"y":0,"z":45}}
</answer>
```

### Extracted Reasoning:

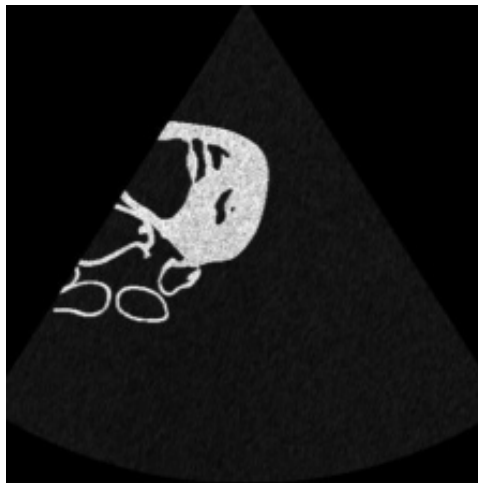
N/A

### Extracted Answer:

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

Metric	Value
numeric	-3.0000
keywords	0.0000
xml	0.0000

## 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":-0.03184080123901367},"rotation":{"x":38.0,"y":-9.0,"z":13.0}}

### Completion -1.0

#### Full Model Output:

```
<reasoning>
Slide the probe to the left and tilt upward.
</reasoning>
<answer>
{"position":{"x":-30,"y":0,"z":0},"rotation":{"x":0,"y":0,"z":40}}
</answer>
```

#### Extracted Reasoning:

Slide the probe to the left and tilt upward.

#### Extracted Answer:

```
{"position":{"x":-30,"y":0,"z":0},"rotation":{"x":0,"y":0,"z":40}}
```

Metric	Value
numeric	-3.0000
keywords	0.5000
xml	0.5000

### Completion -1.0

#### Full Model Output:

```
<reasoning>
roll probe 90 degrees and tilt slightly upwards
</reasoning>
<answer>
{"position":{"x":0,"y":0,"z":0},"rotation":{"x":0,"y":90,"z":-45}}
</answer>
```

#### Extracted Reasoning:

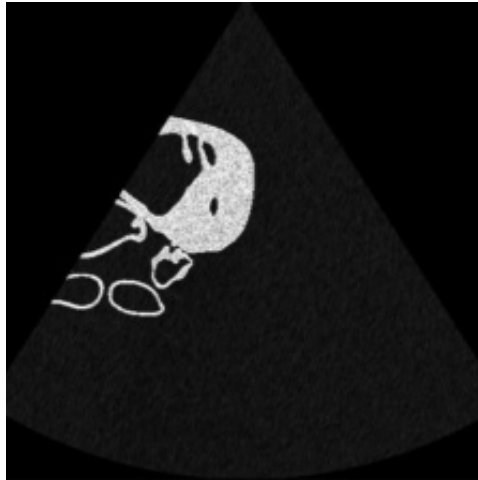
roll probe 90 degrees and tilt slightly upwards

#### Extracted Answer:

```
{"position":{"x":0,"y":0,"z":0},"rotation":{"x":0,"y":90,"z":-45}}
```

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":-0.003087759017944336},"rotation":{"x":38.0,"y":-11.0,"z":12.0}}

**Completion -1.5**

**Full Model Output:**

```
<reasoning>
The probe needs to be tilted more toward the patient's left side and
rotated slightly forward to see the PLAX view.
</reasoning>
<answer>
{"position":{"x":20,"y":100,"z":40},"rotation":{"x":10,"y":-5,"z":20}}
</answer>
```

**Extracted Reasoning:**

The probe needs to be tilted more toward the patient's left side and rotated slightly forward to see the PLAX view.

**Extracted Answer:**

```
{"position":{"x":20,"y":100,"z":40},"rotation":{"x":10,"y":-5,"z":20}}
```

Metric	Value
numeric	-3.0000

keywords	0.0000
xml	0.5000

### Completion -1.0

#### Full Model Output:

```
<reasoning>
Slide the probe slightly left and roll it slightly back to optimize
the PLAX view.
</reasoning>
<answer>
{"position":{"x":-10,"y":0,"z":5},"rotation":{"x":0,"y":-10,"z":0}}
</answer>
```

#### Extracted Reasoning:

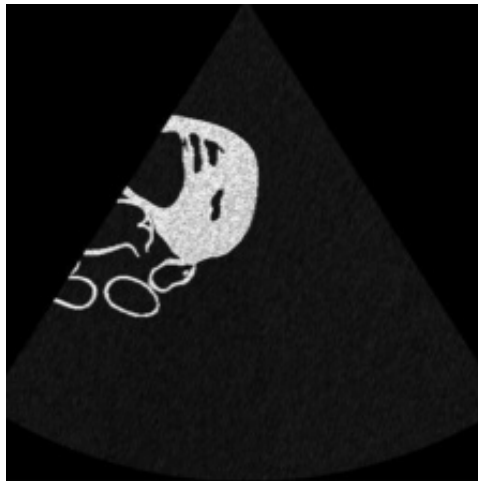
Slide the probe slightly left and roll it slightly back to optimize the PLAX view.

#### Extracted Answer:

```
{"position":{"x":-10,"y":0,"z":5},"rotation":{"x":0,"y":-10,"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 -1.5

#### Full Model Output:

```
<reasoning>
The probe should be angled slightly upward and rotated to the left to
achieve the parasternal long-axis view.
</reasoning>
<answer>
{"position":{"x":45,"y":75,"z":50},"rotation":{"x":180,"y":0,"z":25}}
</answer>
```

#### Extracted Reasoning:

The probe should be angled slightly upward and rotated to the left to achieve the parasternal long-axis view.

#### Extracted Answer:

```
{"position":{"x":45,"y":75,"z":50},"rotation":{"x":180,"y":0,"z":25}}
```

Metric	Value
numeric	-3.0000
keywords	0.0000
xml	0.5000

### Completion -1.0

#### Full Model Output:

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

#### Extracted Reasoning:

Slide the probe left and rotate slightly upwards.

#### Extracted Answer:

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

Metric	Value
numeric	-3.0000
keywords	0.5000

xml	0.5000
-----	--------