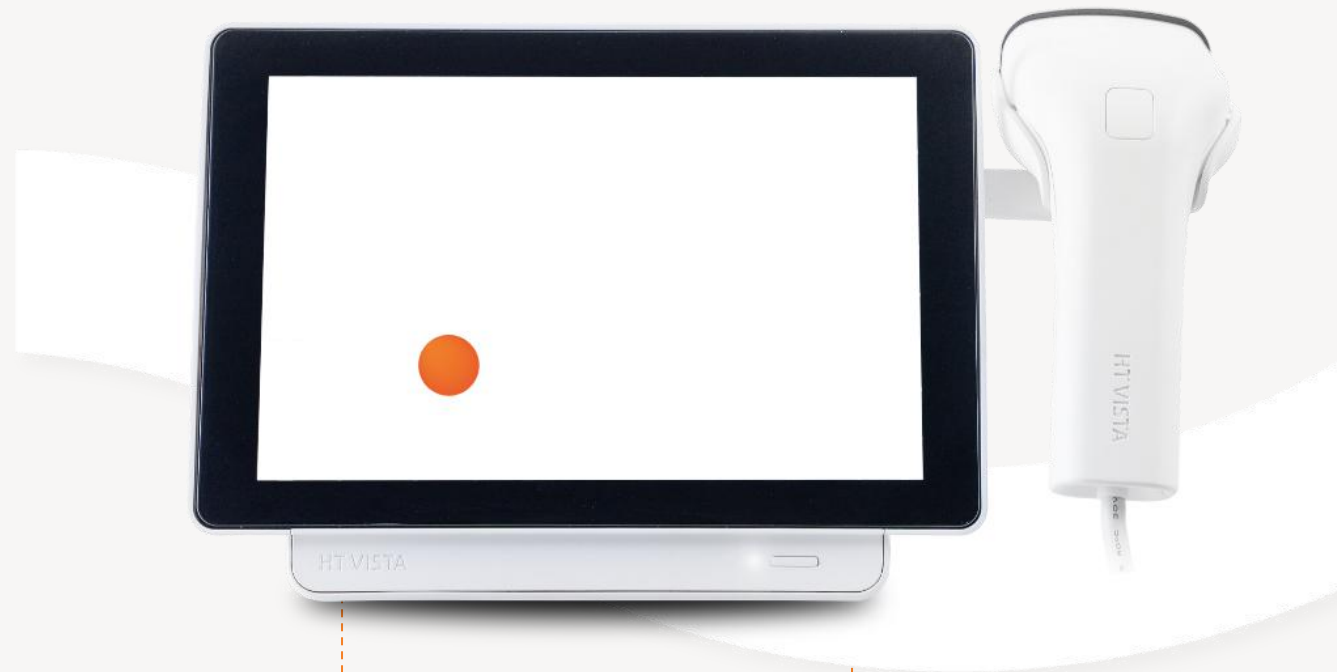


Team training



HT Vista
By HTVET



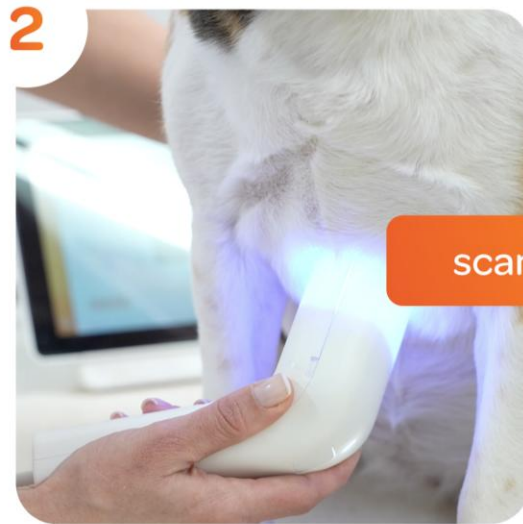
Non-Invasive Cancer Detection for Lumps & Bumps in Dogs

HT Vista helps veterinary teams 'rule out' cancer without invasive procedures and 'rule in' malignancy when results indicate.

The Process



Prep



scan



Get Results

3 quick steps

SCANNING GUIDE

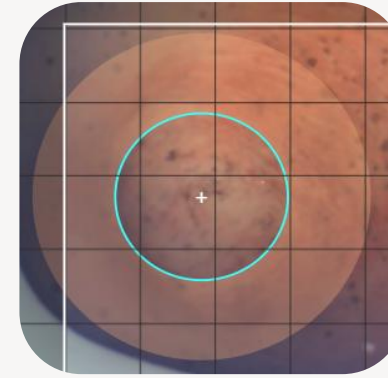
4 key steps



CLIPPING



SCANNING



MARKING

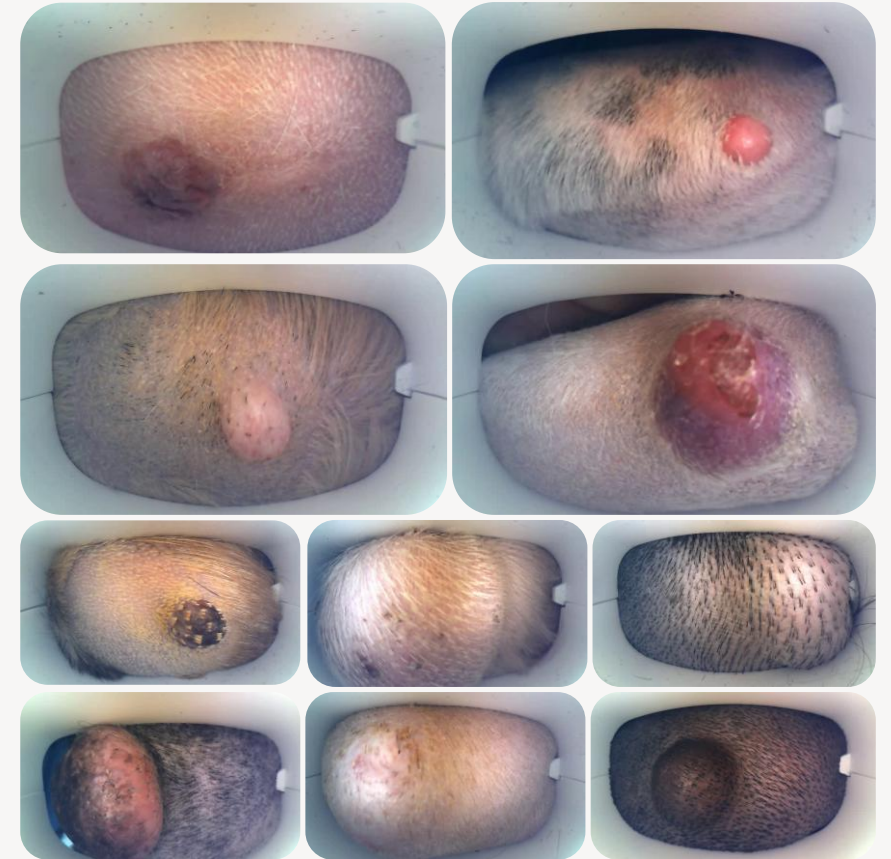


ANALYZING

for a high-quality scan

Clipping

1. Palpate
2. Clip
3. Placement
 - Do I have enough in each box?
 - Do I need to move?
 - Do I need to clip better?

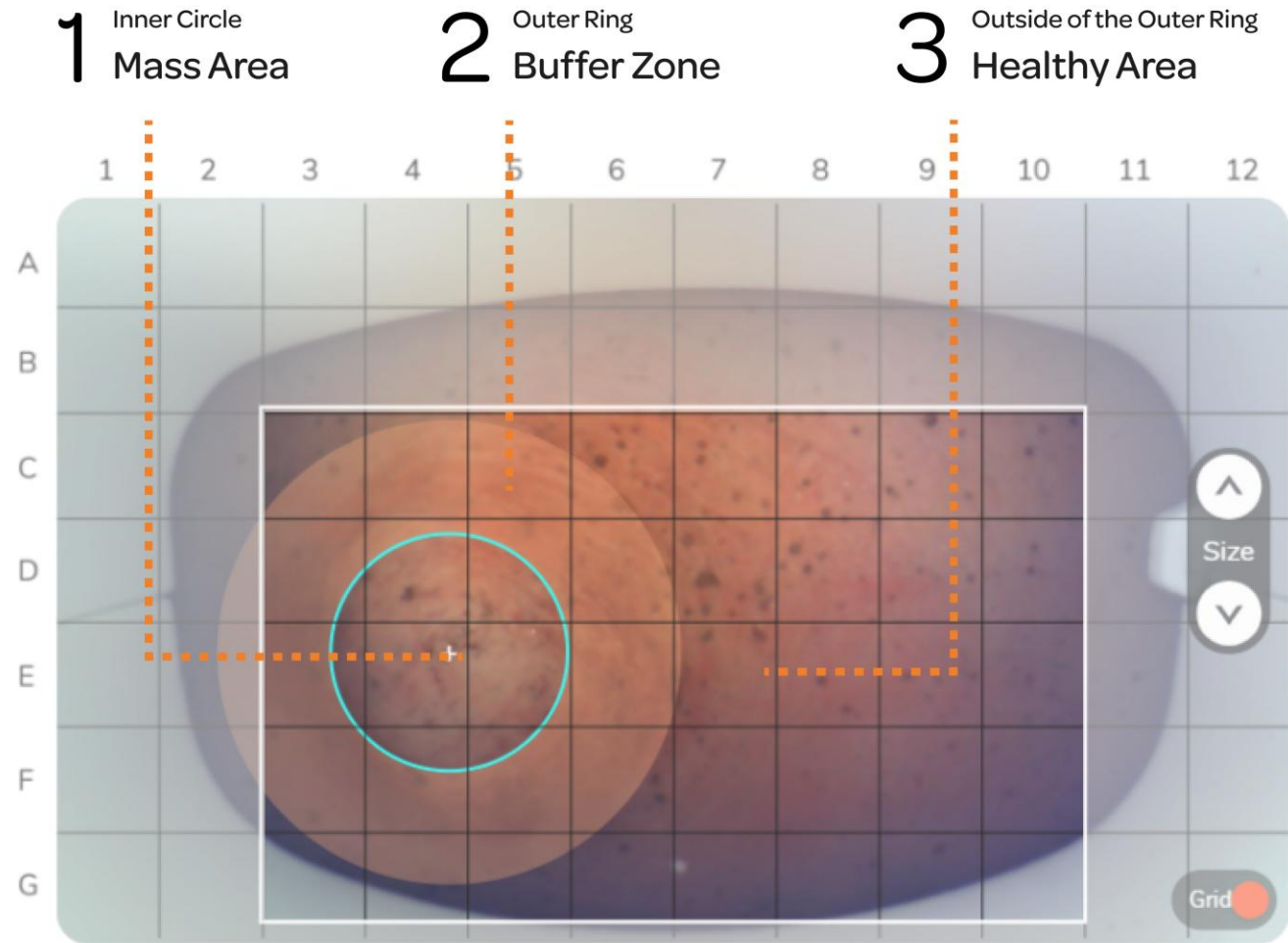


Scanning



Marking

Marking
3 Key Areas



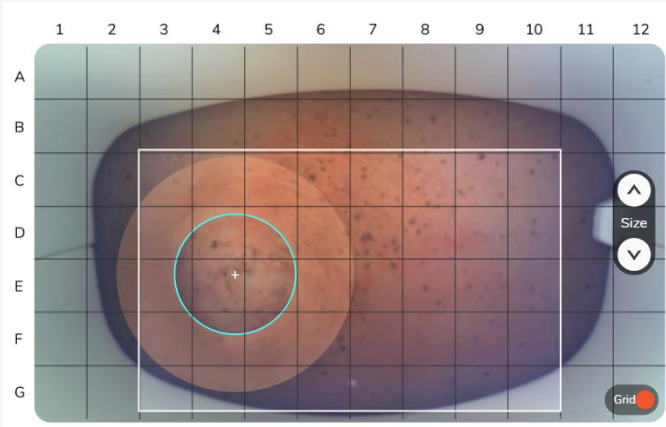
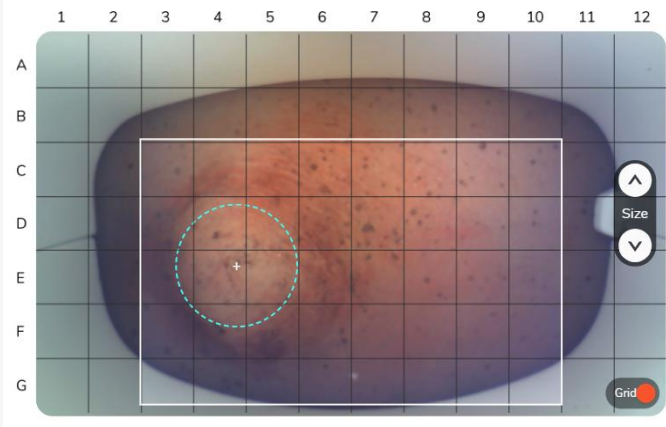
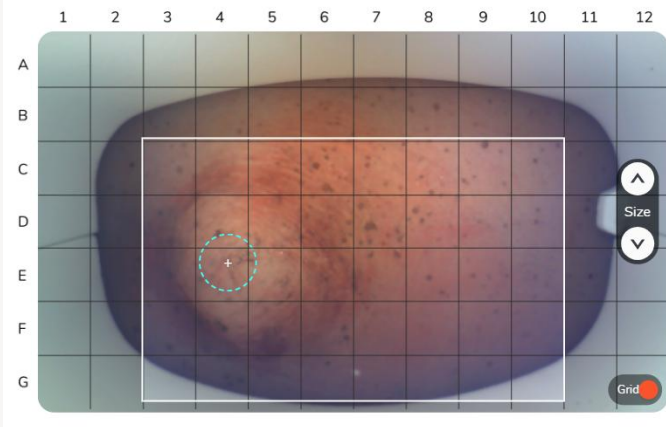
Only areas **1 & 3** are analyzed by the AI-algorithm

How To Mark Your Scan

1. Touch the **centre of the mass** area to start marking.

2. Adjust the circle's size using the arrows on the right, ensuring it includes **mass tissue only**. The inner circle should be as big as possible and include as much mass tissue as possible, without containing any healthy tissue.

3. Adjust the outer ring radius to cover the margins of the mass. Ensure the area outside the outer ring includes **healthy skin only**.



Press 'next' and **review your marking** before pressing 'analyze'.

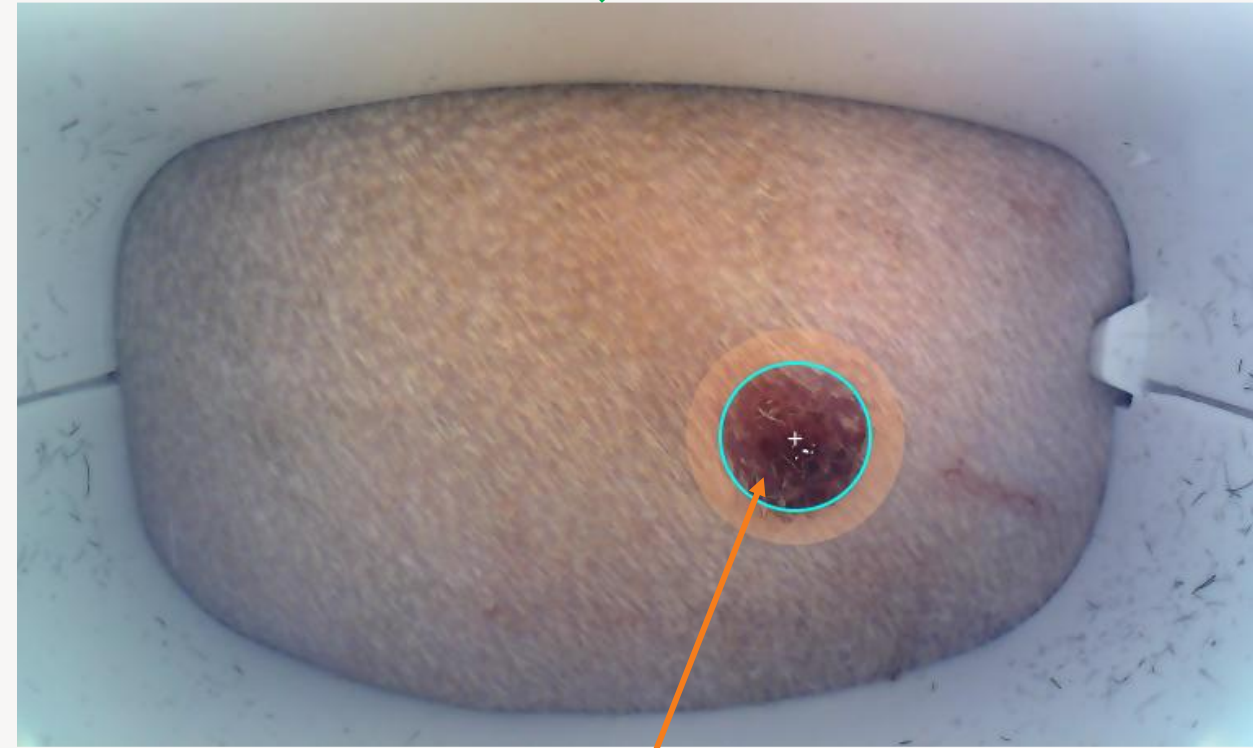
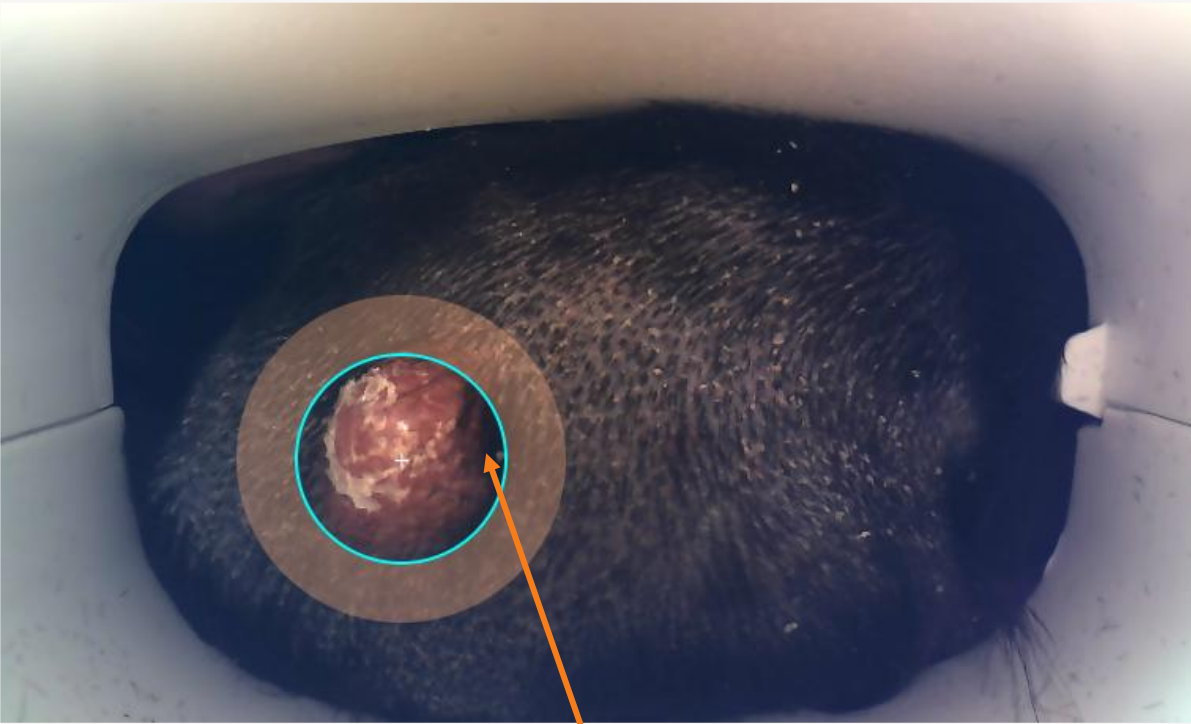
Auto Marking

Mass Location Prediction

In select cases, based on thermal activity, the scan will automatically predict the location of the mass. This can be accepted or further edited.



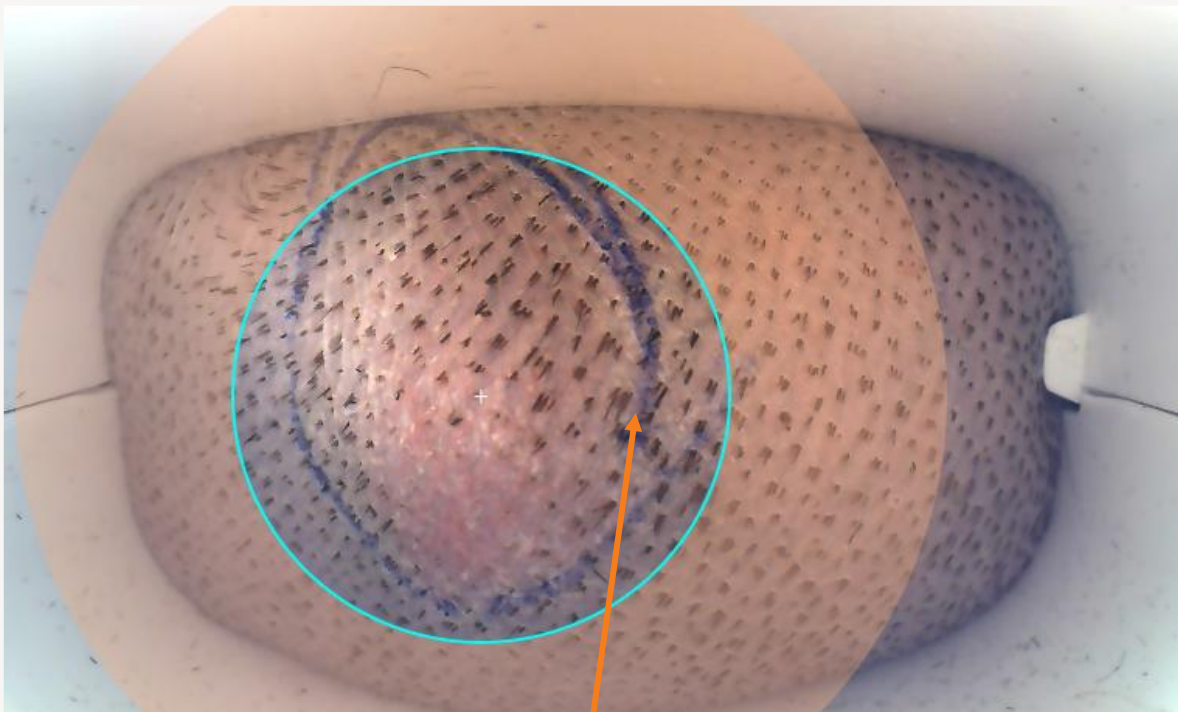
Dermal masses



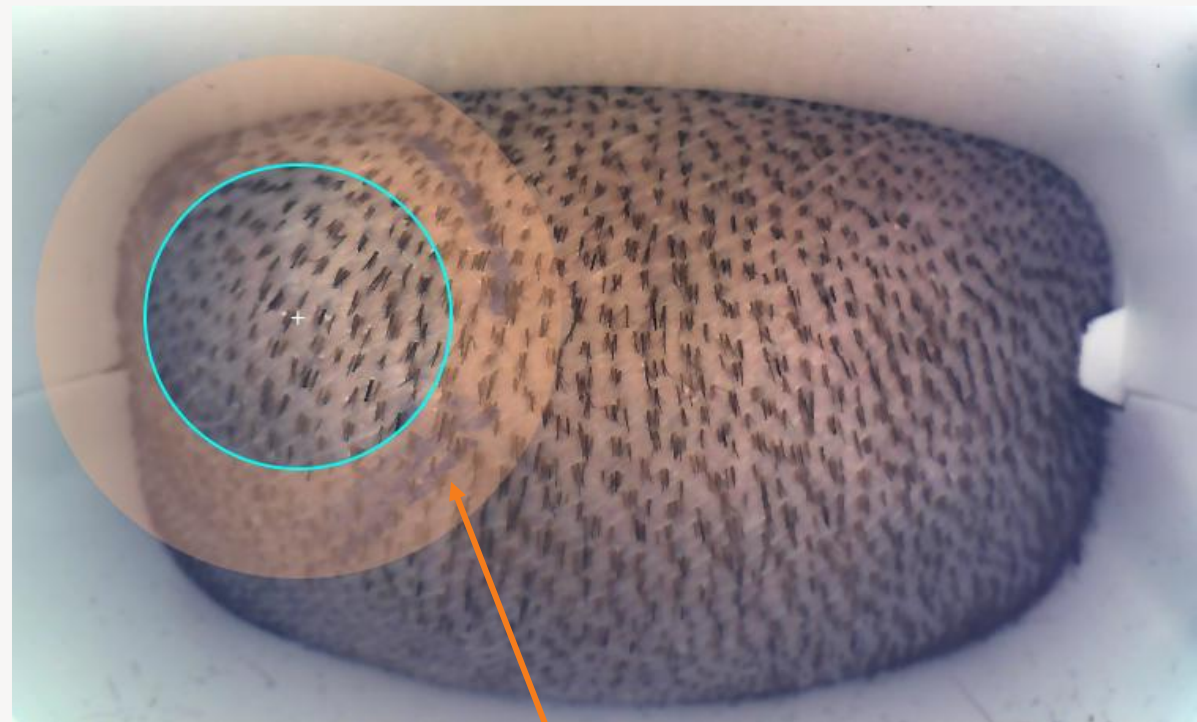
The inner ring contains the mass border. The circle should be reduced to be within the mass border.

The Inner ring contains mass only. The mass border is inside the buffer zone.

Subcutaneous & Large Masses



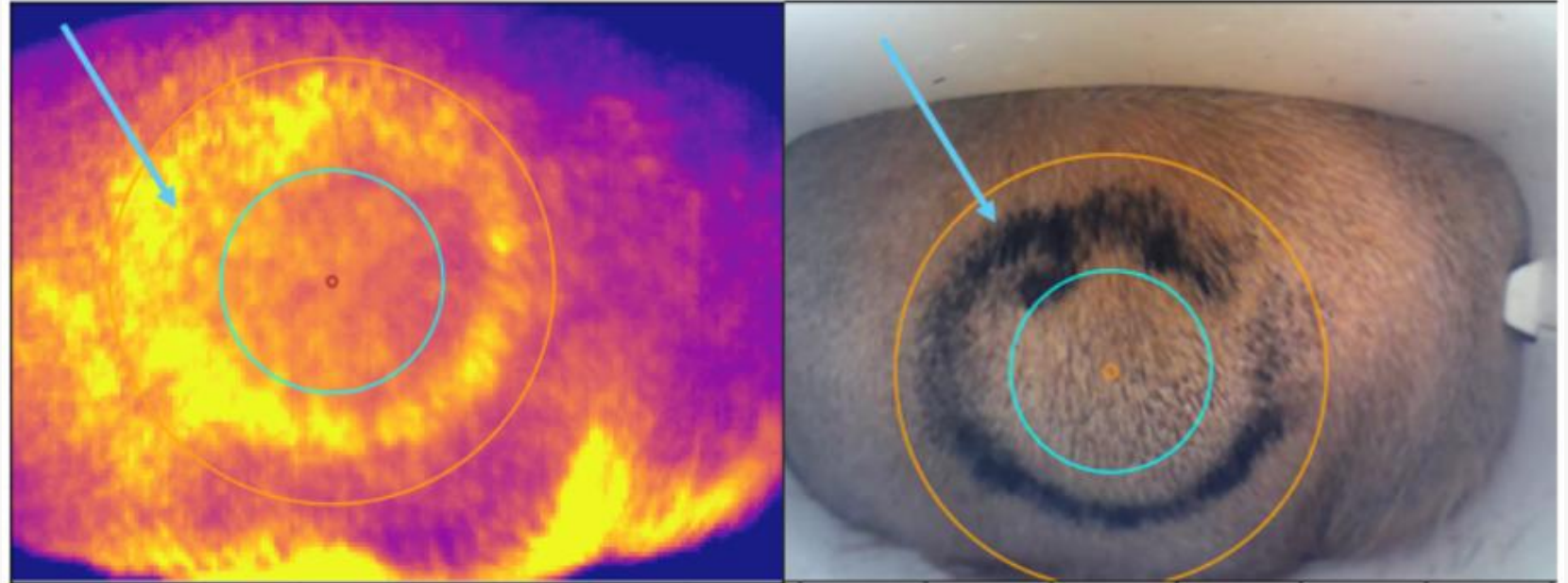
Pen is inside the inner ring. Pen must be covered by the border zone



Pen is in the buffer zone only

Subcutaneous Masses

- Blue pen ink
- No red or black ink or markers
- Minimal

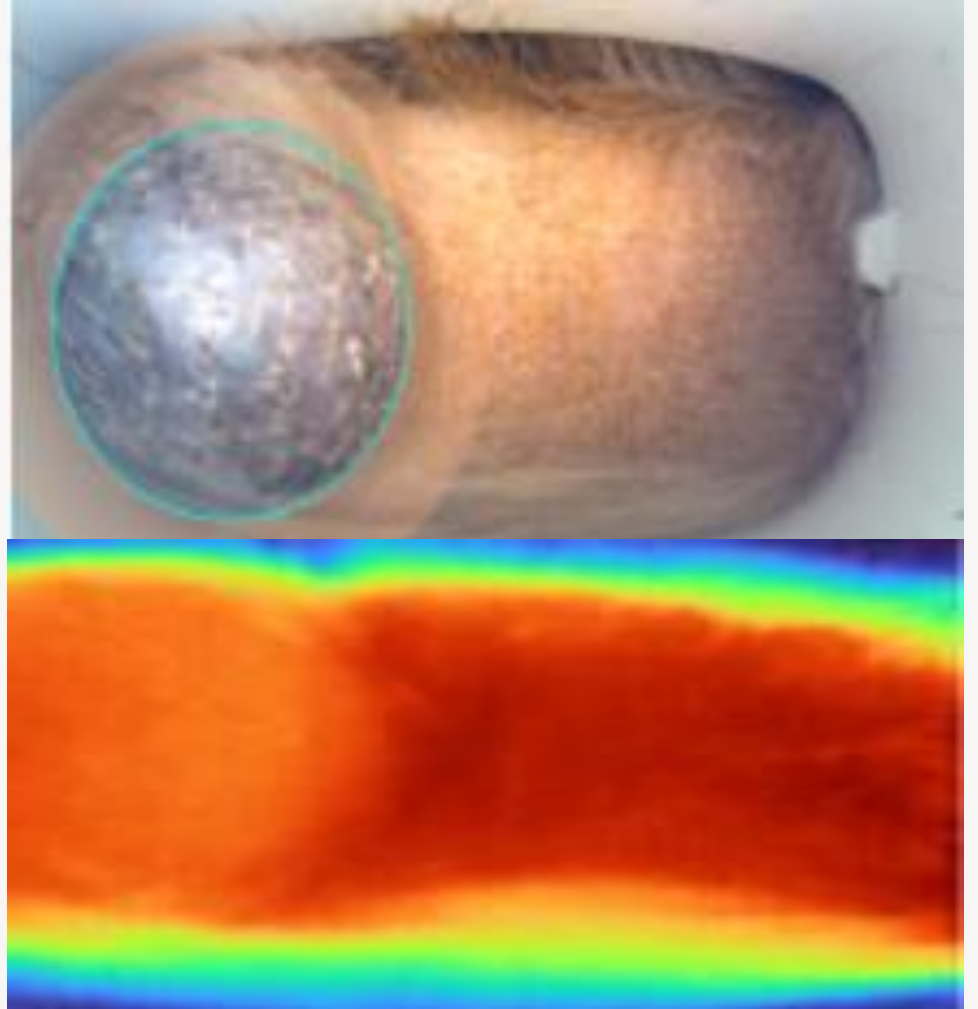


Mass on a Limb or Tail



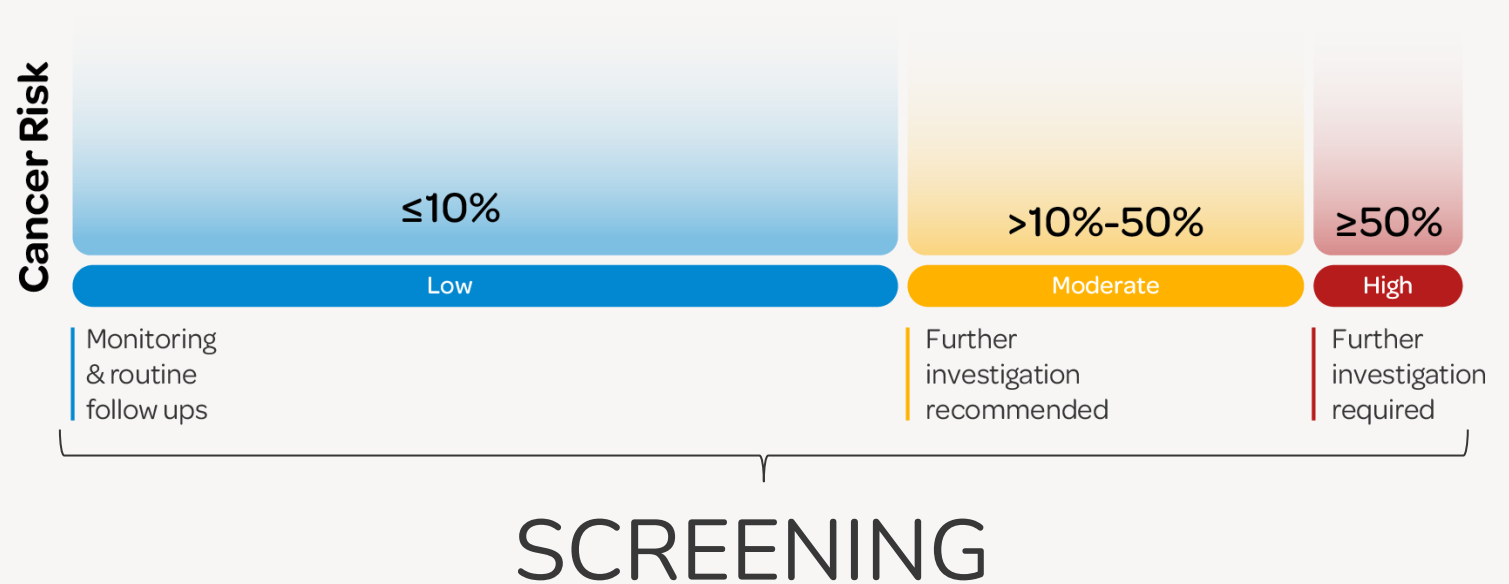
Place the scanner over the mass, horizontal to the limb.

If there are large air gaps, cover these areas with a dark fabric to ensure the tissue can be sufficiently heated.



Screening Results


- All masses go through a **Screening** process.
- Model: **Sen 90%** ; **NPV 98%**
- Each mass gets a **Cancer Risk Value & Level**
- Cancer Risk is based on **Malignant Probability (in %)**
- 3 Groups
 - **Low-Risk** $\leq 10\%$
 - **Moderate-Risk** $>10\%-50\%$
 - **High-Risk** $\geq 50\%$
- Recommendation is based on Cancer Risk Level



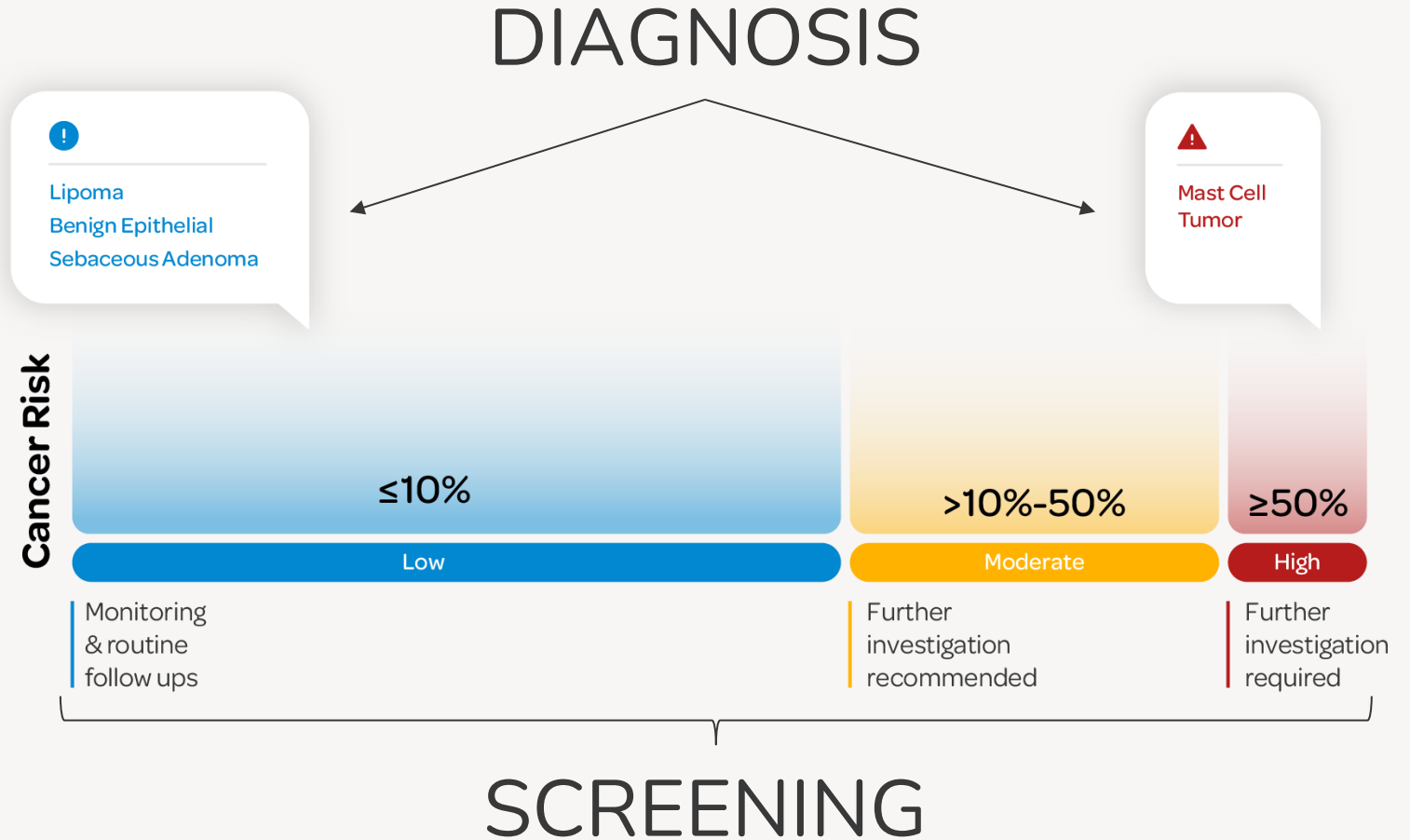
Diagnostic Results

- 20% of masses will also go through a **Diagnostic** Process.
- Two conditions need to be met: **Specificity** and the **Cancer Risk Value**
 1. Specificity $\geq 90\%$
 2. Cancer Risk Value
 - Low-Risk
 - High-Risk

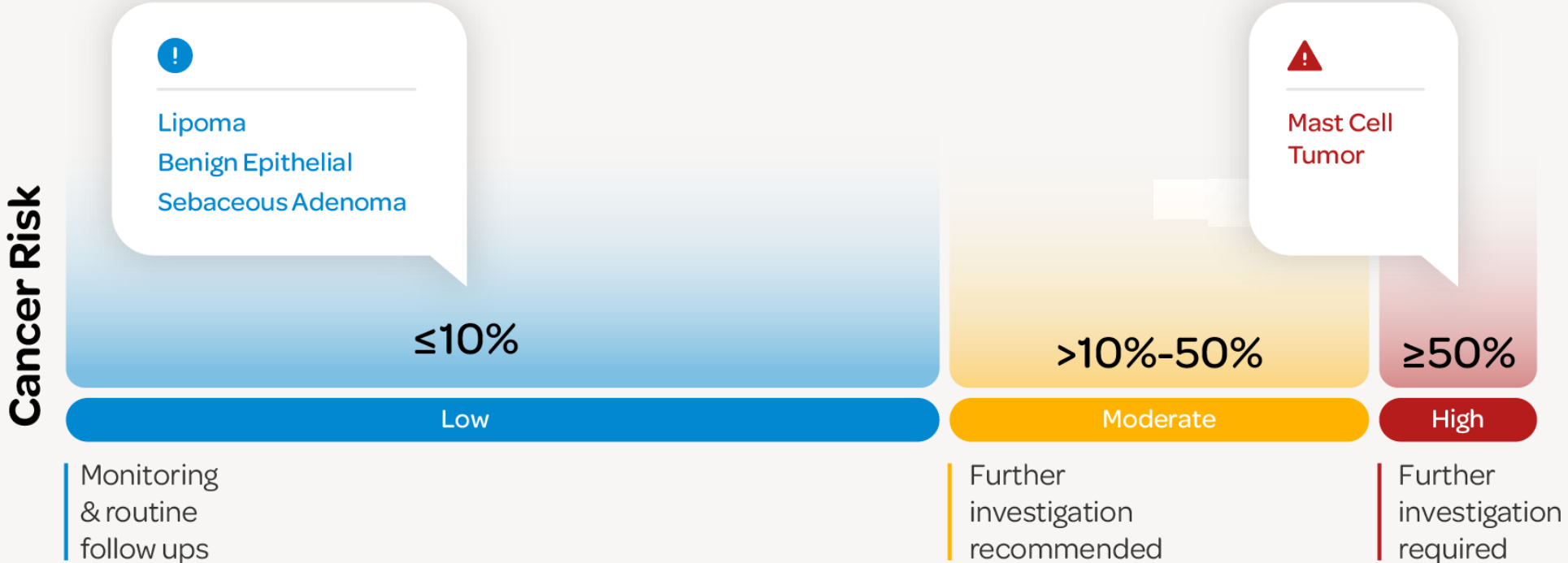
- Alerts

 **Low-Risk:** Lipoma; Benign Epithelial; Sebaceous Adenoma

 **High-Risk:** Mast Cell Tumor



Recommendations for next step



Result Dashboard- Low Cancer Risk


Princess

ID: 22345
Sex: Female
Breed: Anglo-Francais de Petite Venerie
Age: 2

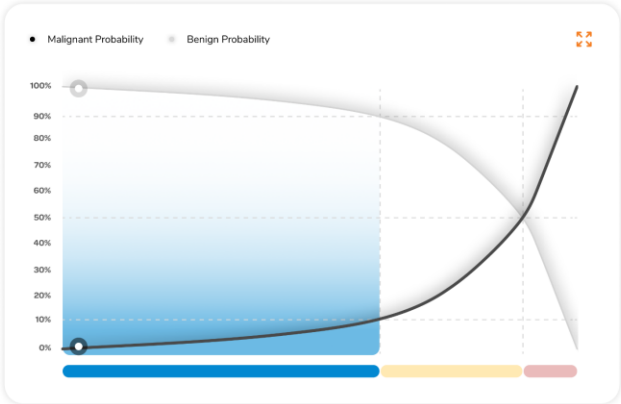
Scan Details

Scanned by: Docs Name
Mass Area: Right Pelvis
Mass ID: MS-34
Scan ID: SC-35
Date: Feb 6th '24
Time: 7:17 pm





Screening Findings

Cancer Risk Value: **1%** 

Cancer Risk Level: **Low**



Imaging

-  Optic Image 
-  Thermal Image 

Diagnostic Findings

Lipoma

Recommendation

Monitoring and routine follow-ups

Interpretation

The mass demonstrates 99% probability of being benign based on similar HDI characteristics observed in other benign cases. This indicates a high probability that the mass is benign, therefore, the mass can be safely monitored with routine follow-ups.

Additionally, the mass was identified as a Lipoma with high specificity, based on similar HDI characteristics observed in comparable cases.

Result Dashboard- Moderate Cancer Risk

Result Dashboard

HTVista

Princess

ID: 22345
Sex: Female
Breed: Anglo-Francais de Petite Venerie
Age: 2

Scan Details

Scanned by: Docs Name
Mass Area: Right Pelvis
Mass ID: MS-34
Scan ID: SC-35
Date: Feb 6th '24
Time: 7:17 pm

Screening Findings

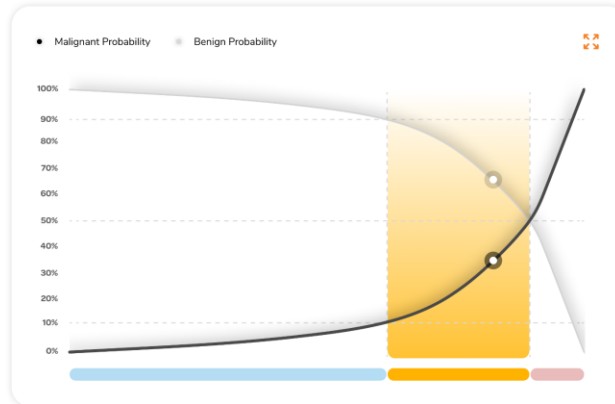
Cancer Risk Value

35%



Cancer Risk Level

Moderate



Imaging



Optic Image



Thermal Image



Diagnostic Findings

N/A

Recommendation

Further investigation recommended

Interpretation

The mass has 35% probability of malignancy and 65% probability of being benign based on HDI characteristics observed in similar cases. As the probability of the mass being benign has fallen below 90%, further investigation is recommended.

Result Dashboard- High Cancer Risk

Result Dashboard

HTVista

Princess


ID: 22345
Sex: Female
Breed: Anglo-Francais de
Petite Venerie
Age: 2

Scan Details

Scanned by: Docs Name
Mass Area: Right Pelvis
Mass ID: MS-34
Scan ID: SC-35
Date: Feb 6th '24
Time: 7:17 pm

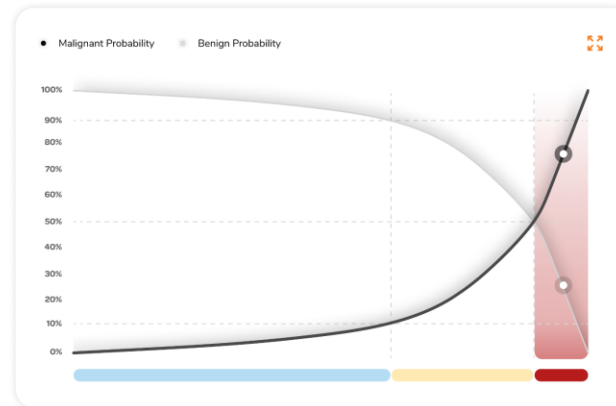
Screening Findings

Cancer Risk Value

75% 

Cancer Risk Level

High



Imaging



Optic Image



Thermal Image

Diagnostic Findings

Mast Cell Tumor

Recommendation

Further investigation required

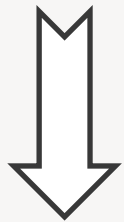
Interpretation

The mass shows 75% probability of being malignant based on similar HDI characteristics observed in other cases. This indicates a high probability that the mass is malignant, therefore, further investigation of this mass is required.

Additionally, the mass was identified as a Mast Cell Tumor with high specificity, based on similar HDI characteristics observed in comparable cases.

Stats Made Easy

SCREENING



DIAGNOSTIC

90%

SENSITIVITY

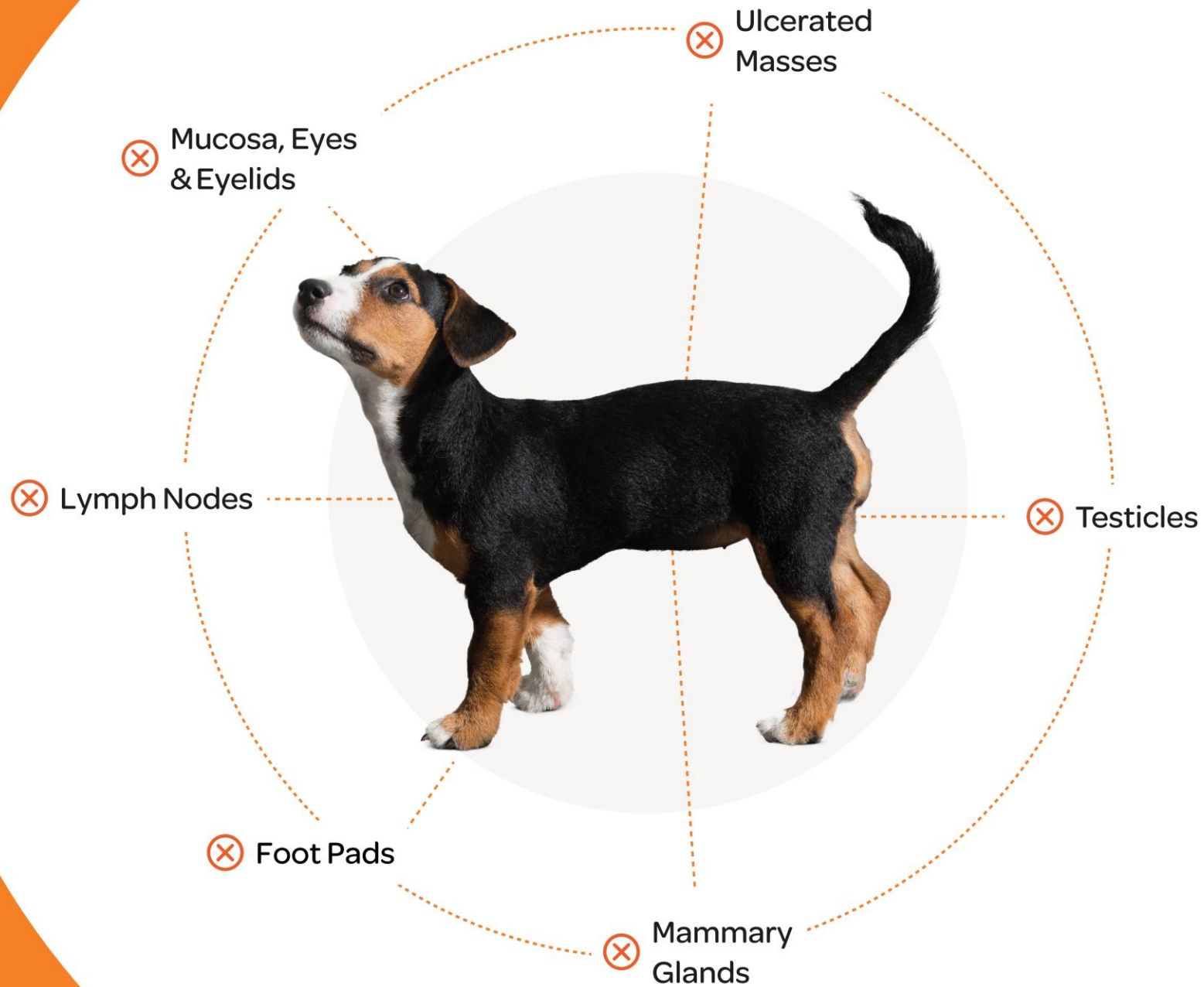
98%

NPV

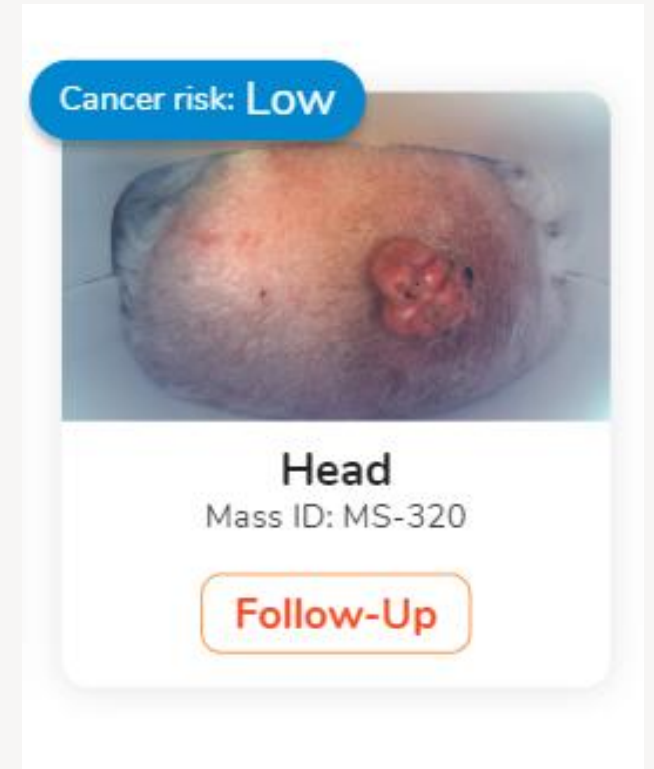
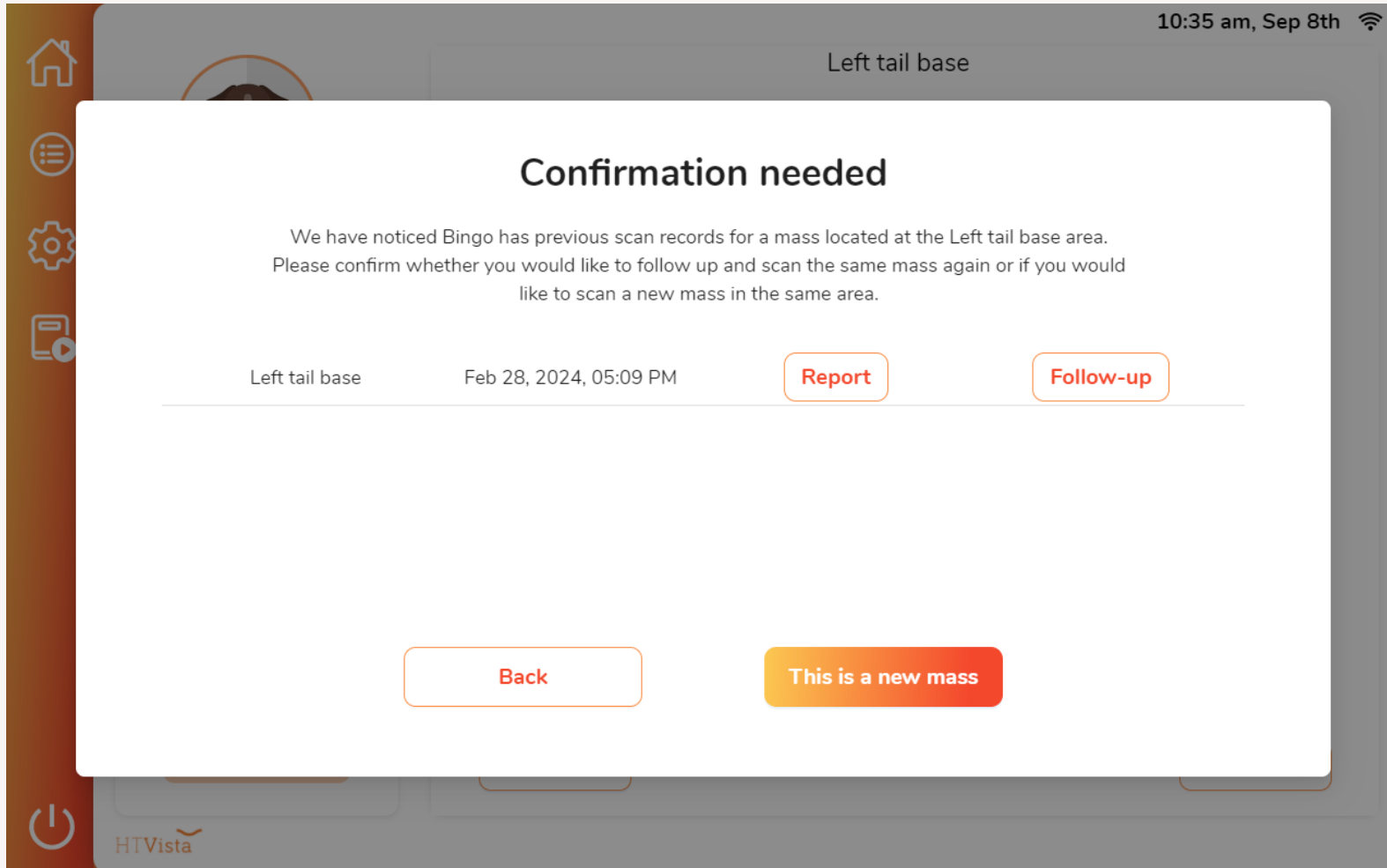
90%

SPECIFICITY

Not Suitable For



Follow Up Scans



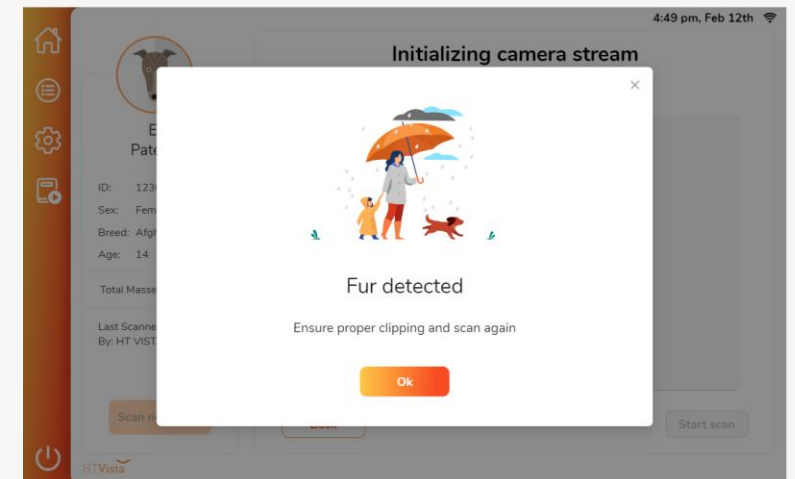
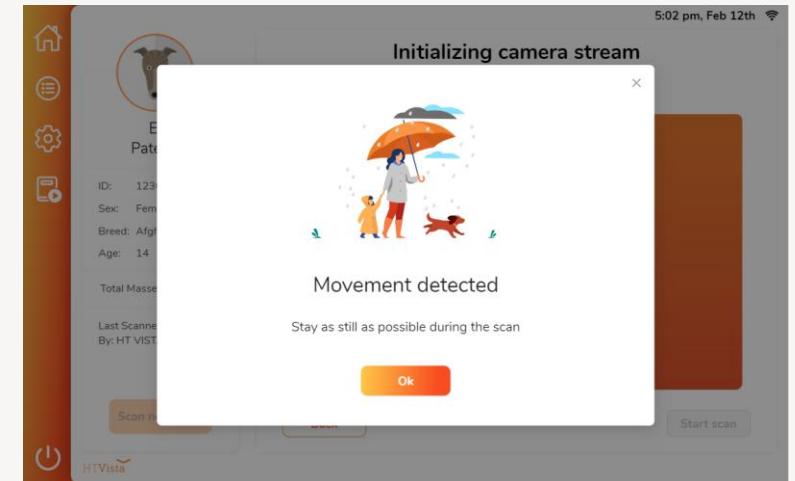
When performing a follow up scan, please use the **Follow-Up** button

Real Time Feedback

Re-scanning a mass is only advised in cases of:

- Movement-related interruptions
- Fur detection
- Post-marking rejections.

The system will allow you to re-scan immediately.



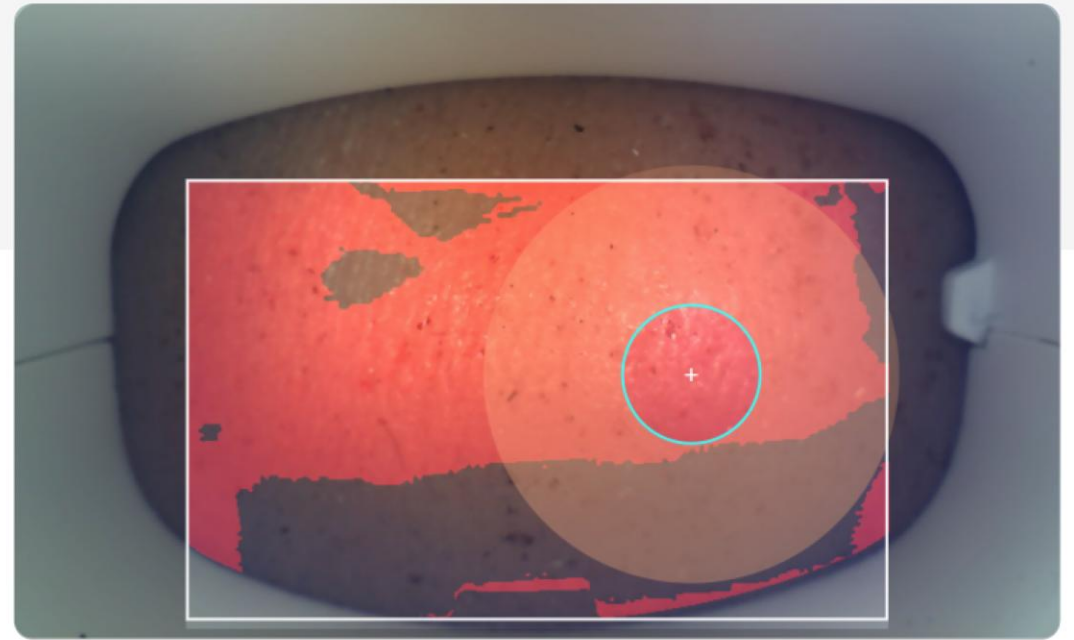
Post Marking Signal Quality Check

Red Mask Covering the
Healthy Area

⊗ Sorry, we cannot analyze your scan
The healthy area contains too much fur



Red Mask Covering the
Mass Area



Tips for a Successful HT Vista Integration



No More
"Wait & See"



Nurses & Technician
Led Process



Scan Before Full
Vet Consultation



HT Vista
Champion & Team
Training



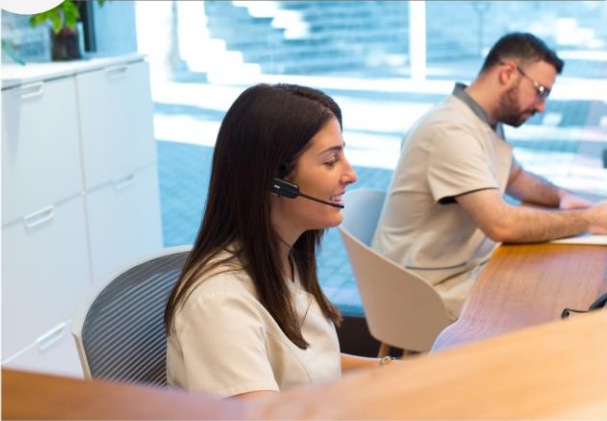
Device Location
& Stable Wi-Fi
Connection



Pet Owner
Education &
Communication

Lumps & Bumps Screening - A Nurse/Technician-Led Process

1 Receptionist →



Routine Vet Appointment Booking

2 Nurse/Technician Screening →



Patient Evaluation
Lump Identification
Fur Clipping
Lump Scanning with HT Vista

3 Full Vet Consultation →



Clinical examination
Result Evaluation
Shared Decision-Making



Low



Moderate



High



Suggested Workflow for Lumps & Bumps

Contact us for any question

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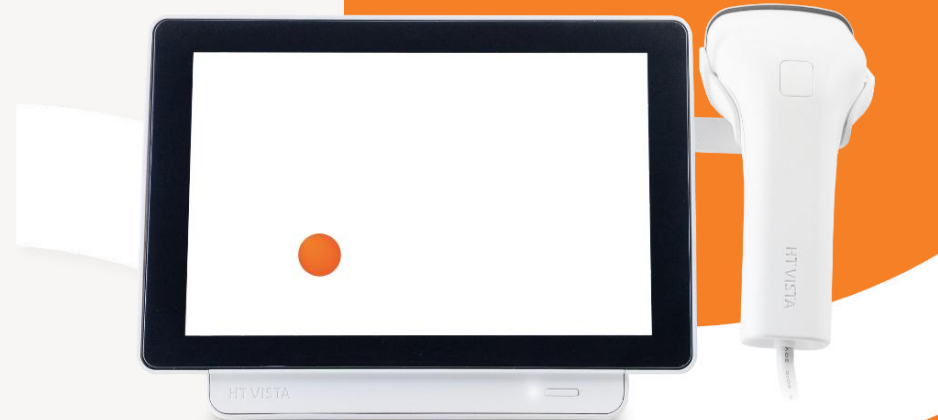
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HTVET Support



support@htbioimaging.com

Let's Scan...

