ThermoMap Thermal Imaging Report

Patient ID: CASE_03

Name: Anita Nair

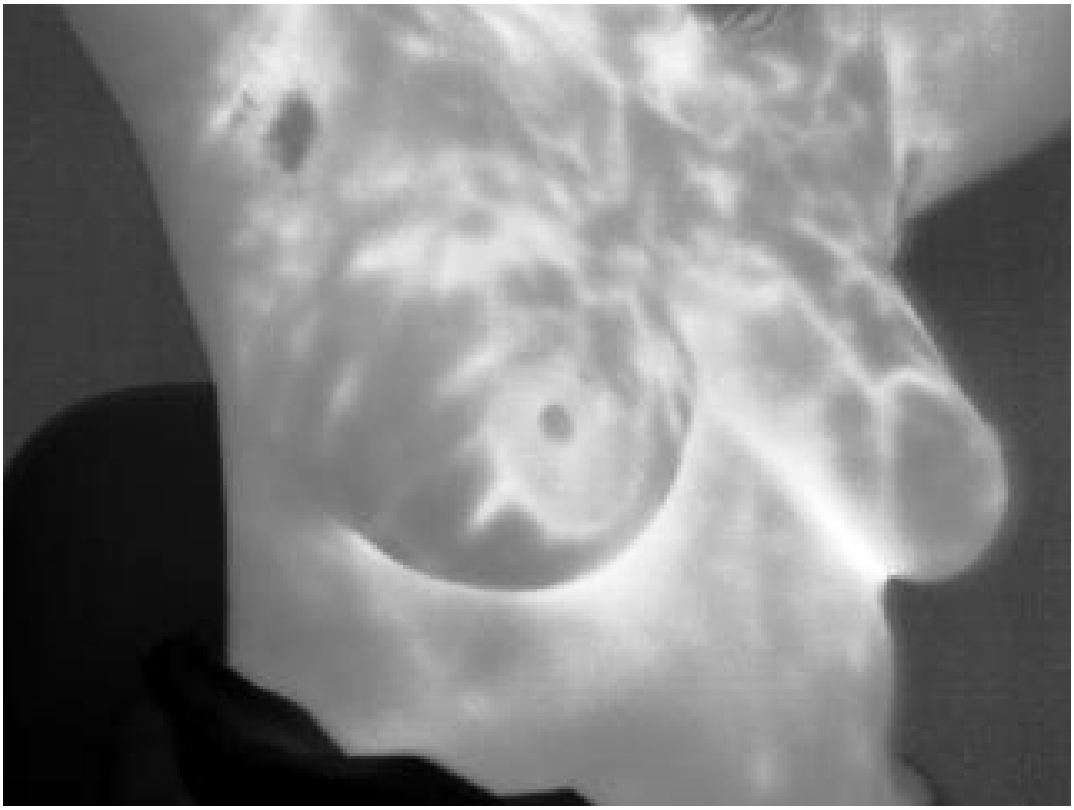
Age: 34

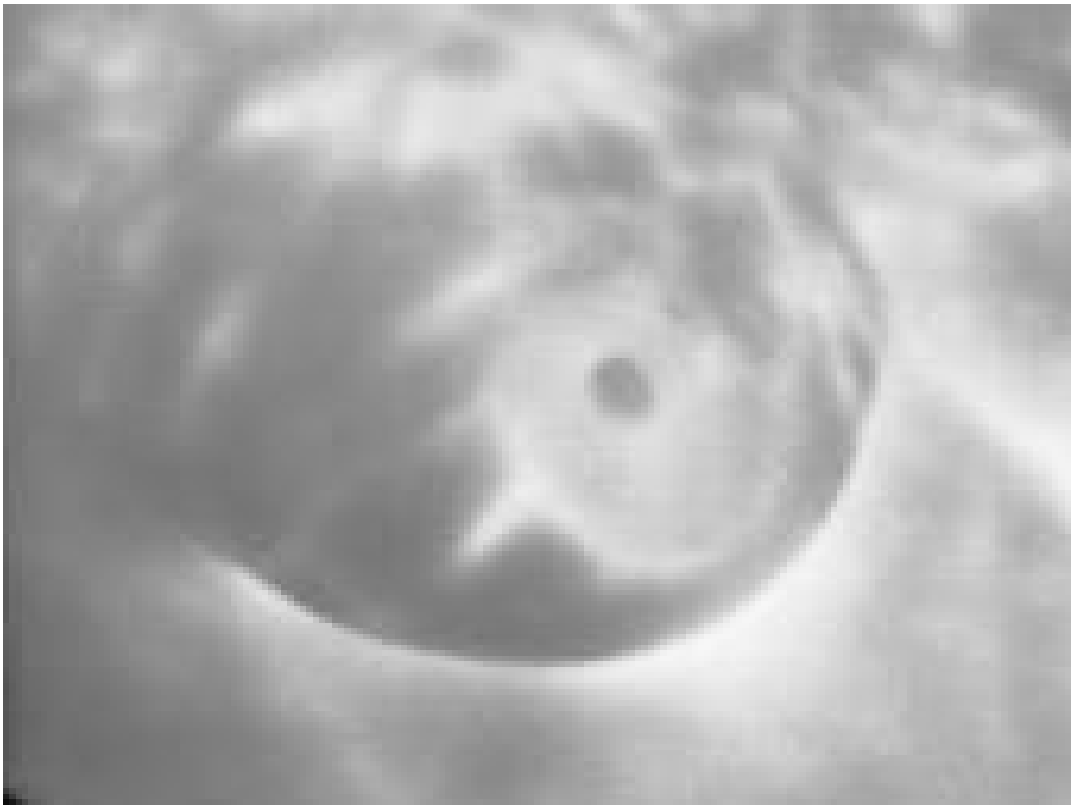
Gender: F

Risk Level: high

Notes: Known diabetic, referred for thermal foot and breast screening.

Breast Thermal Analysis





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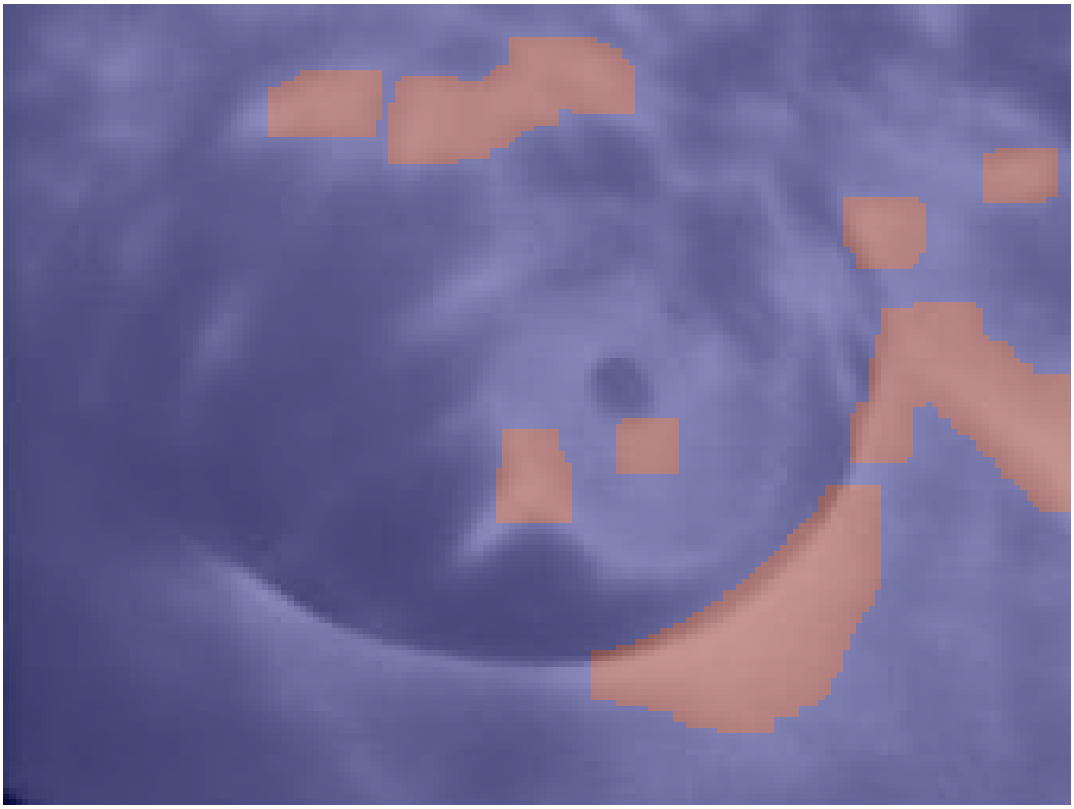
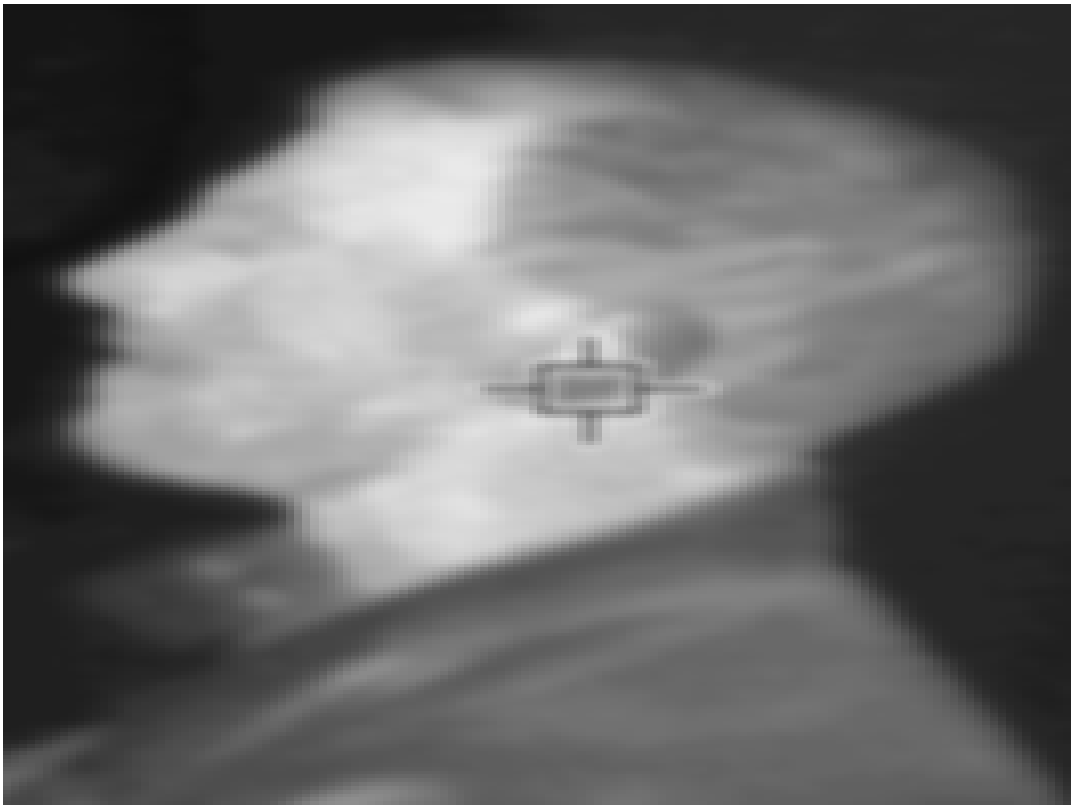
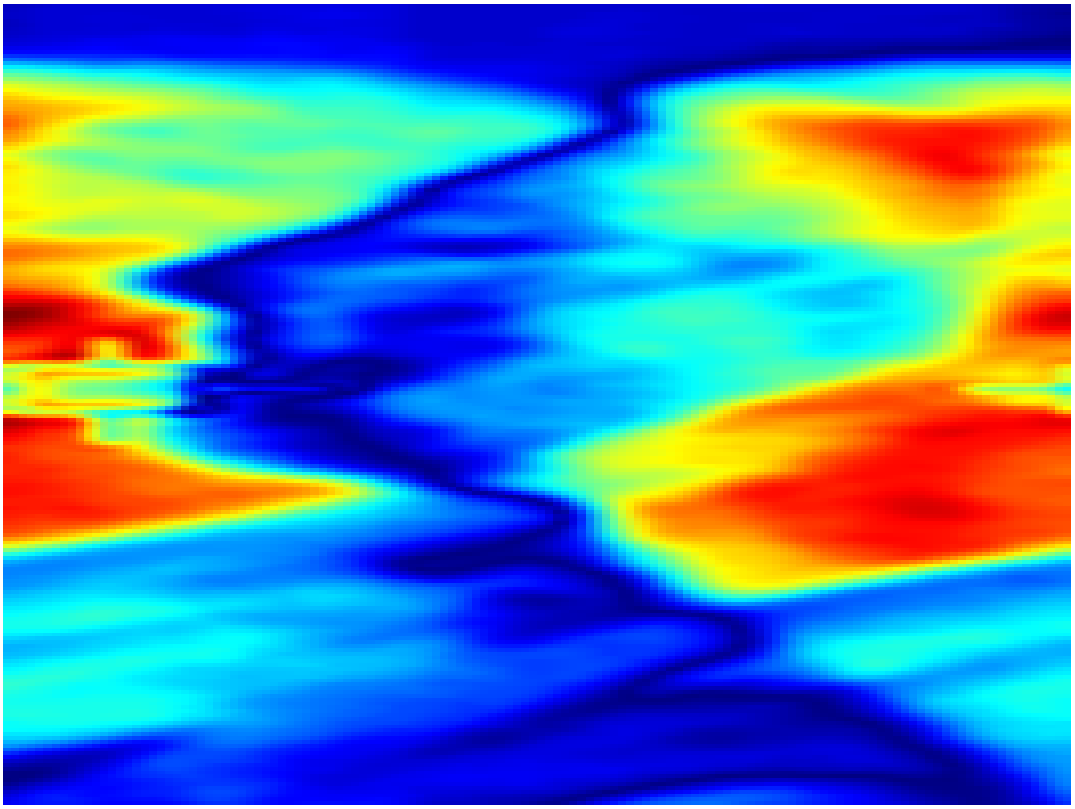


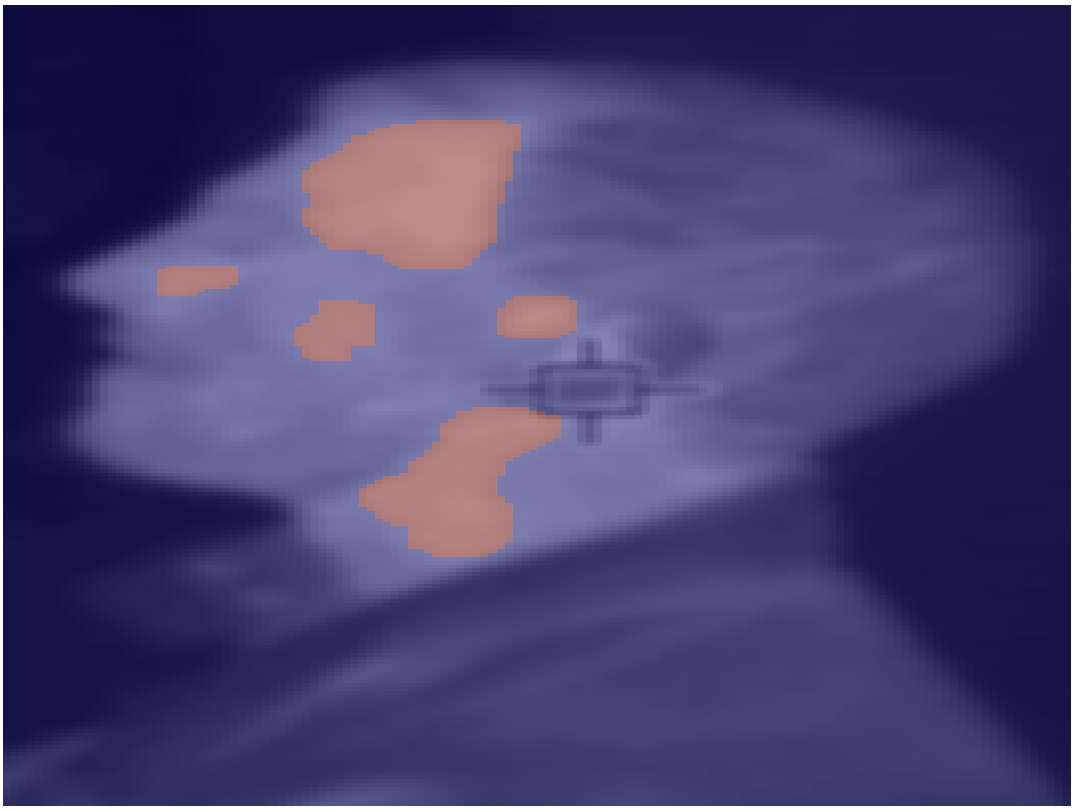
Breast Summary

File	IIR0007_oblright.jpg
Pose	right_oblique
Asymmetry Score	30.1364
TEMPERATURE FEATURES	
Mean Temperature	174.08
Max Temperature	247.00
Min Temperature	12.00
Median Temperature	177.00
Variance	1113.80
Gradient Strength	30.136
Nipple-Line Temperature Difference	58.66
HOTSPOTS	
Count	8
Area Ratio	0.1175
Largest Area	998.00
Largest Centroid	(119, 112)

Face Thermal Analysis







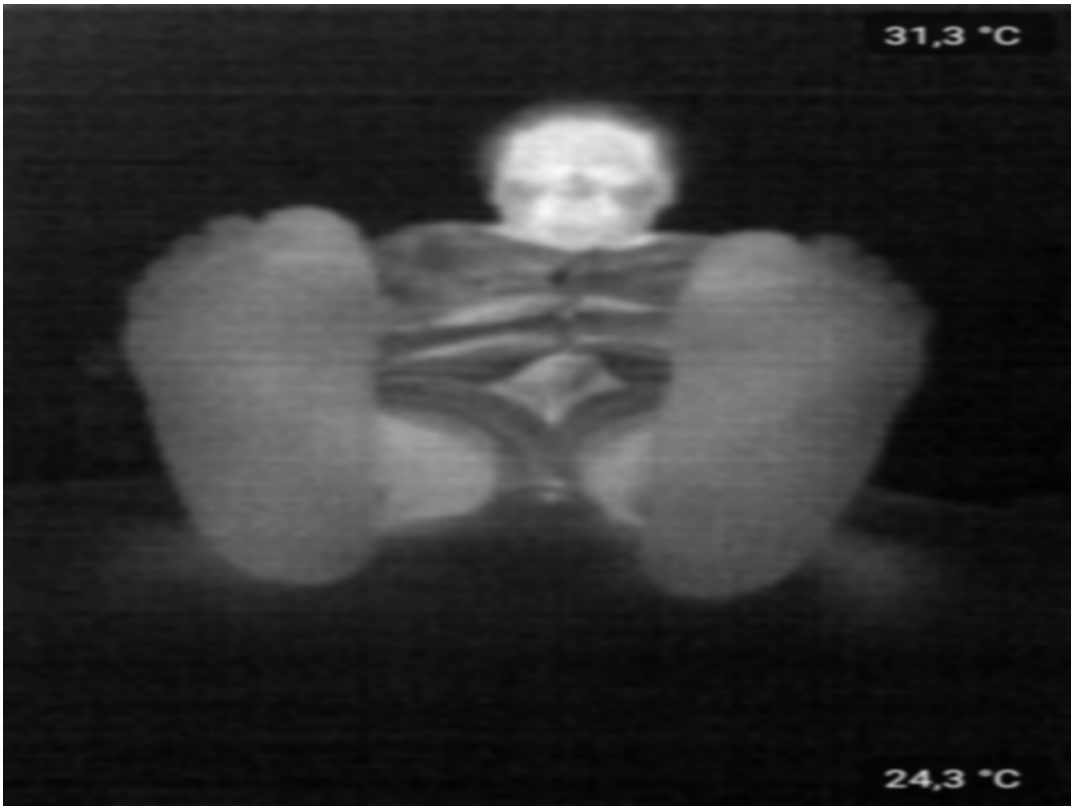
Face Summary

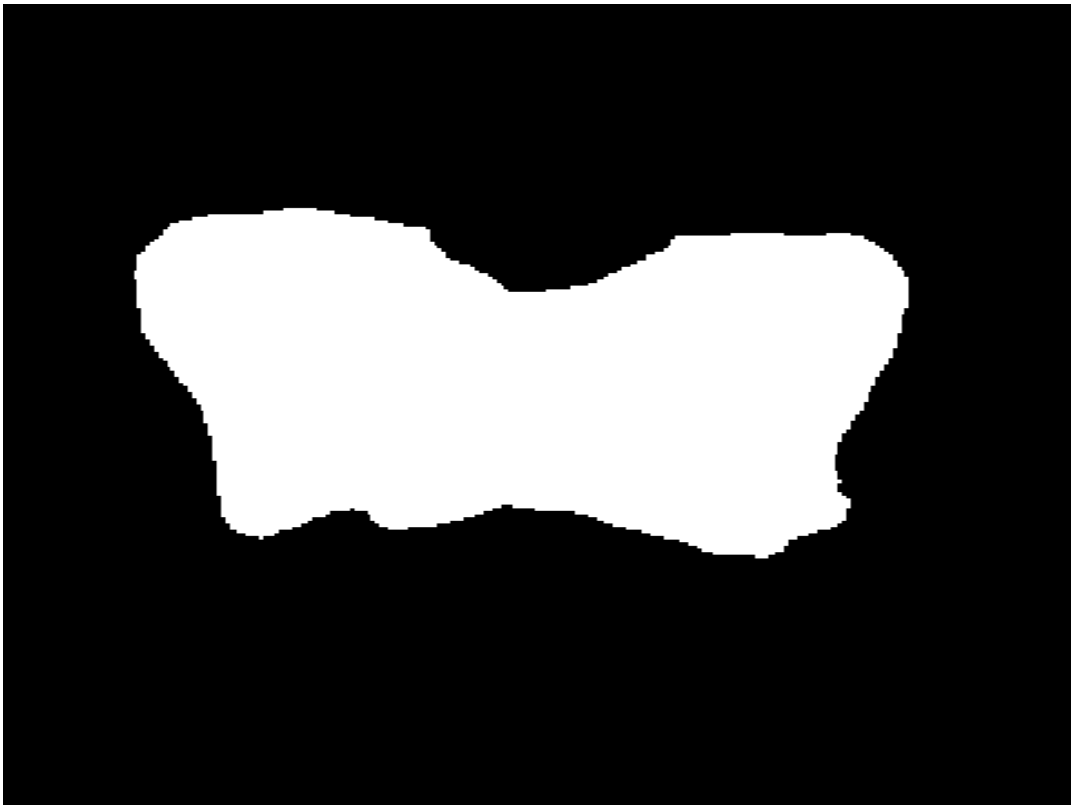
File	img20240303_015247.bmp

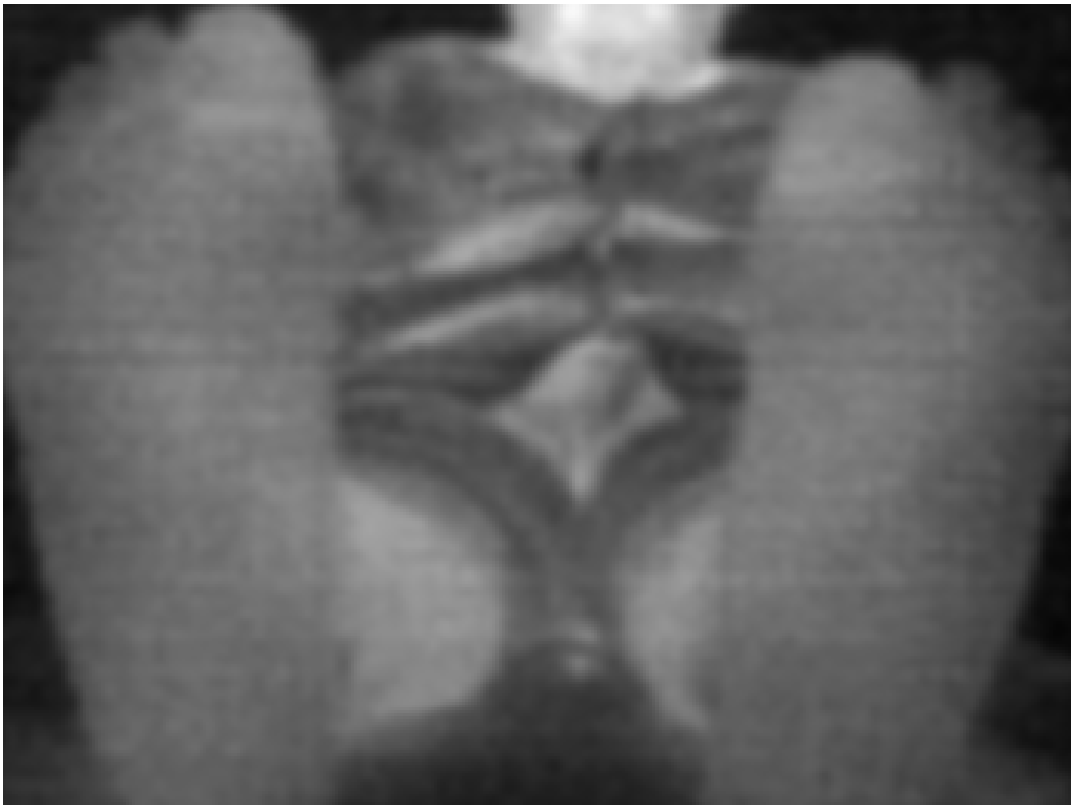
GLOBAL FACE FEATURES	
Mean Temp	104.49
Max Temp	234.00
Min Temp	17.00
Median	103.00
Variance	3668.12
Gradient Strength	30.865
Face Asymmetry Score	74.733
Cheek Side Diff	10.891
REGION FEATURES	
forehead	
Mean	129.81
Max	234.00
Min	22.00
Var	3723.97
left_cheek	
Mean	162.92
Max	229.00
Min	18.00
Var	3176.59
right_cheek	
Mean	124.13
Max	216.00
Min	35.00
Var	2318.41
nose	
Mean	187.78
Max	229.00
Min	108.00
Var	540.31
mouth	
Mean	121.75
Max	218.00
Min	72.00
Var	1388.40
HOTSPOTS	
Count	5
Area Ratio	0.0545

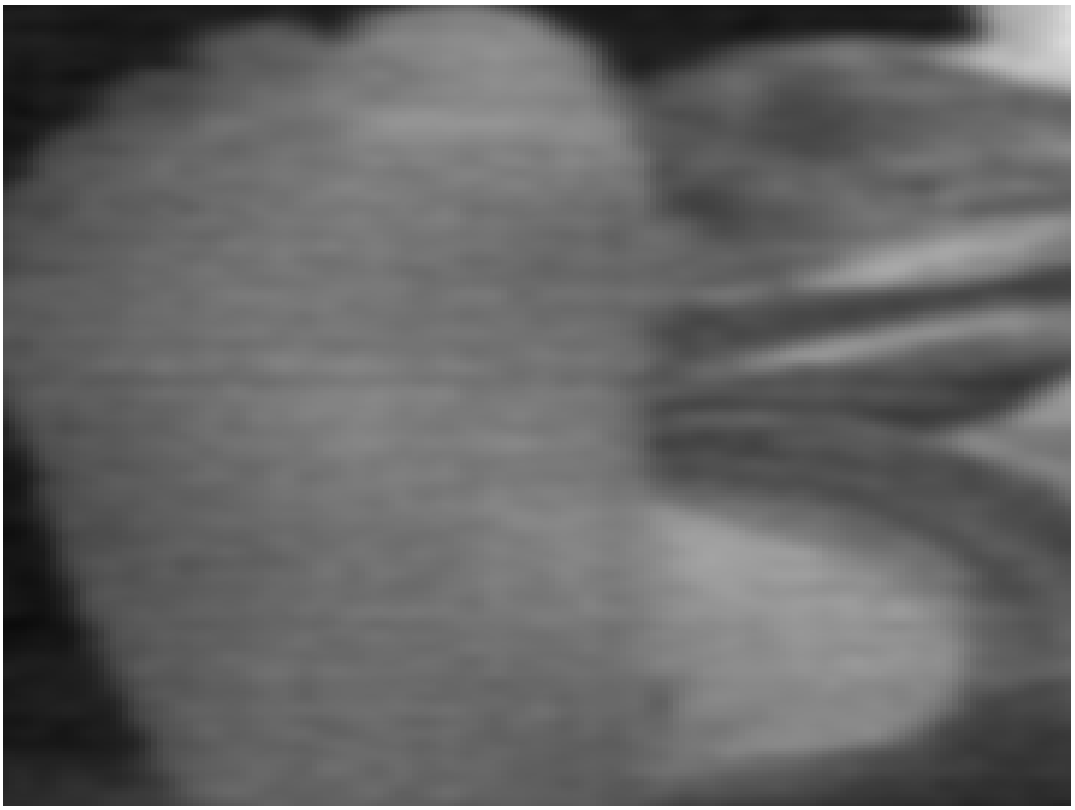
Largest Area	769.50
Largest Centroid	(50, 48)

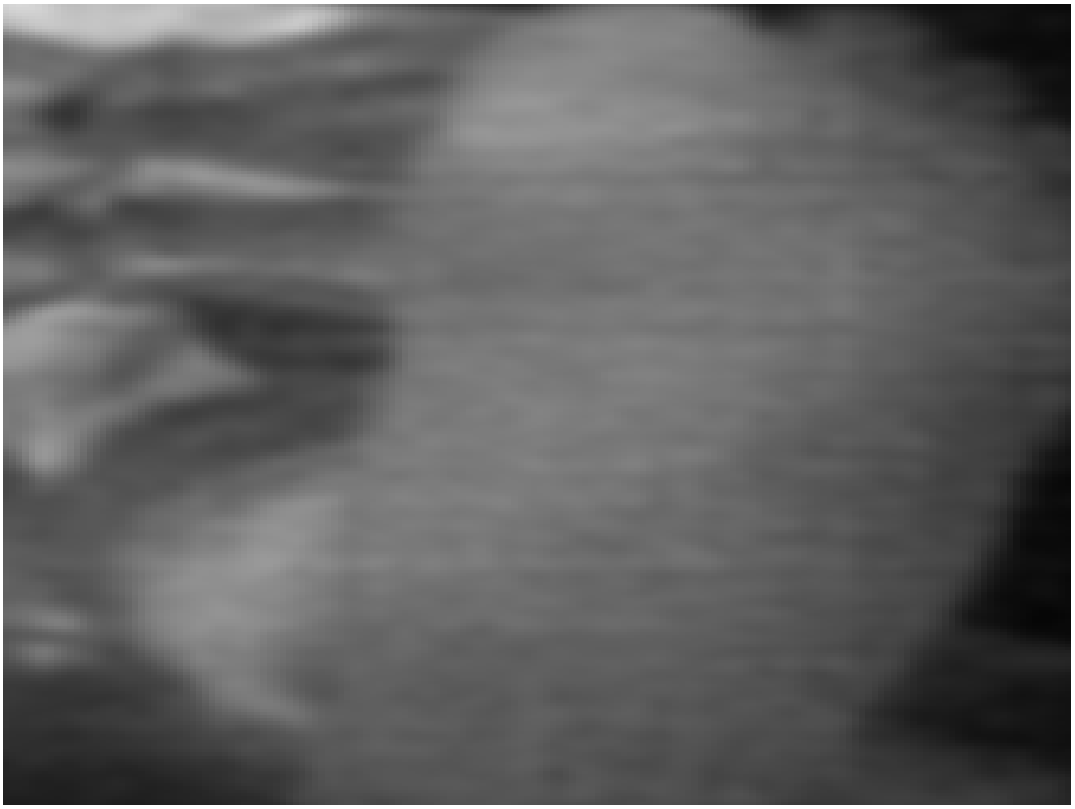
Feet Thermal Analysis

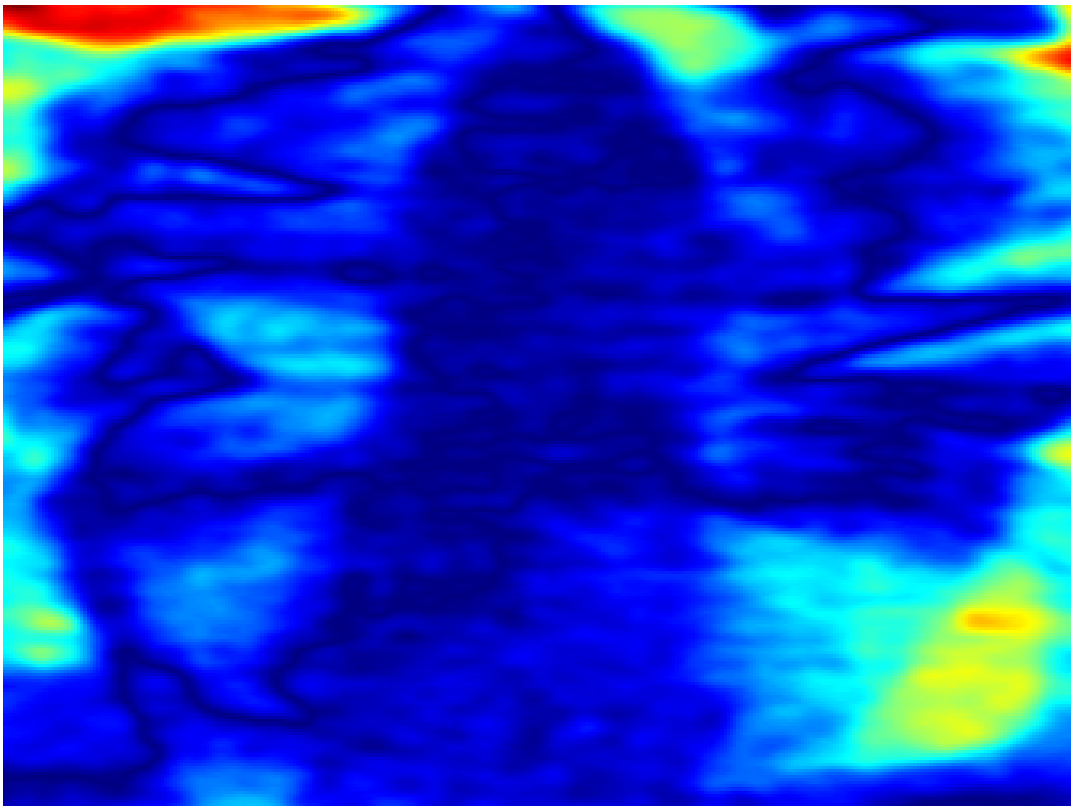


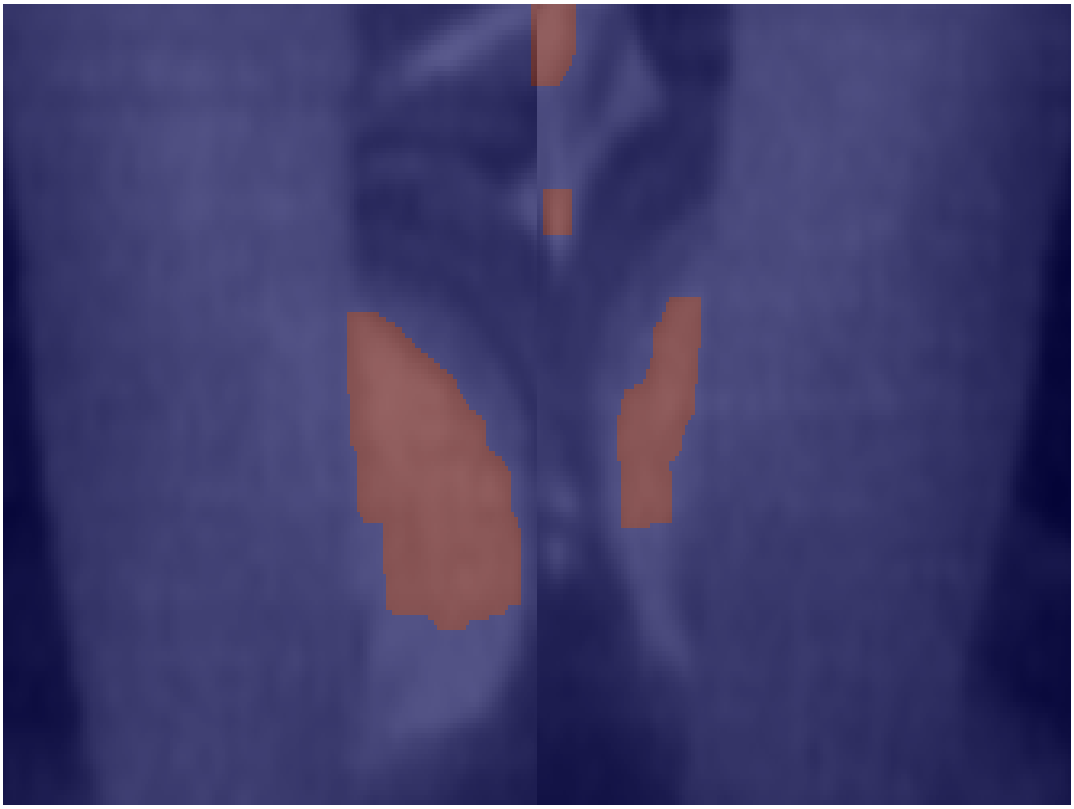












Feet Summary

File	diabetic/thermal/R2_0059.png
Group	diabetic/thermal
GLOBAL FEET ROI BOX	(np.int64(59), np.int64(163), np.int64(406), np.int64(442))
LEFT FOOT (whole)	
Mean Temp	100.08
Max Temp	219.00
Min Temp	11.00
Median	104.00
Variance	919.80
Gradient Strength	19.536
RIGHT FOOT (whole)	
Mean Temp	94.27
Max Temp	216.00
Min Temp	6.00
Median	96.00
Variance	960.59
Gradient Strength	18.861
ASYMMETRY (whole feet)	

Mean L-R difference score	30.048
PLANTAR HOTSPOTS (bottom of feet)	
Count	4
Area Ratio	0.0603
Largest Area	2185.50
Largest Center	(132, 92)

System Overview

ThermoMap is a multi-region thermal imaging analysis system that extracts non-diagnostic thermal insights from breast, facial, and plantar thermograms. The system combines classical image processing, thermal feature engineering, and deep learning-based segmentation for accurate region-of-interest detection and consistent thermal analysis.