ThermoMap Thermal Imaging Report

Patient ID: CASE_02

Name: Rohit Iyer

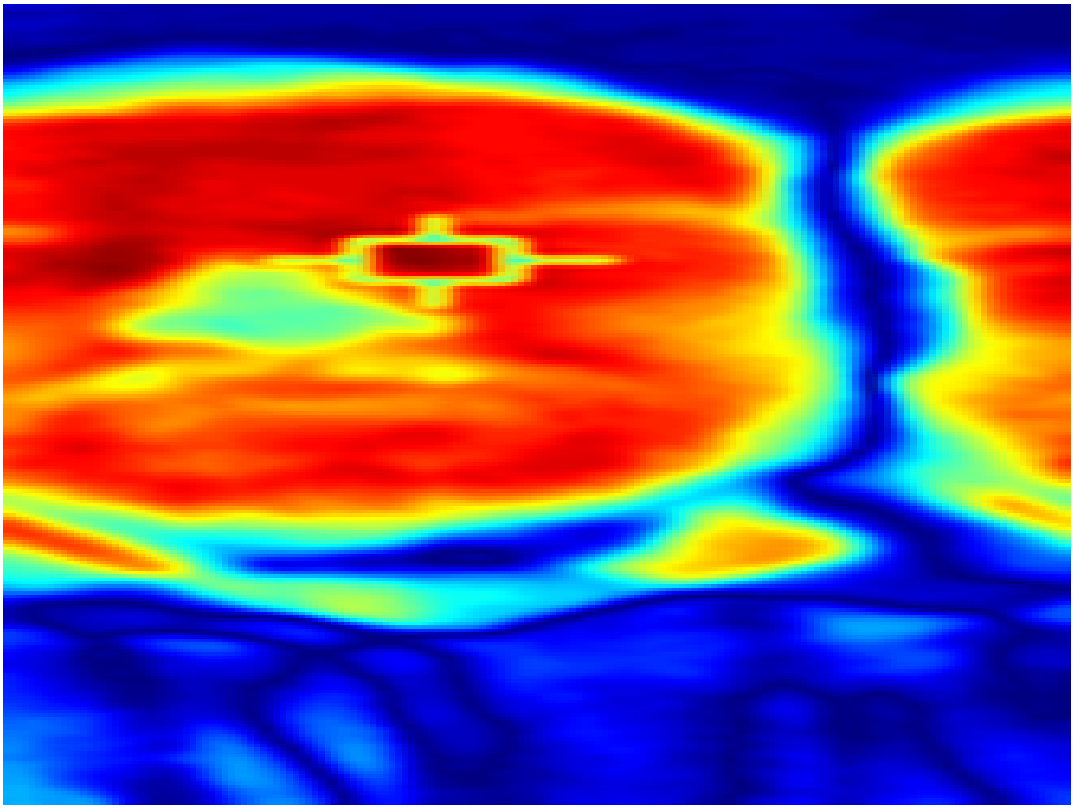
Age: 30

Gender: M

Risk Level: high

Notes: History of peripheral neuropathy, undergoing regular foot monitoring.

Face Thermal Analysis



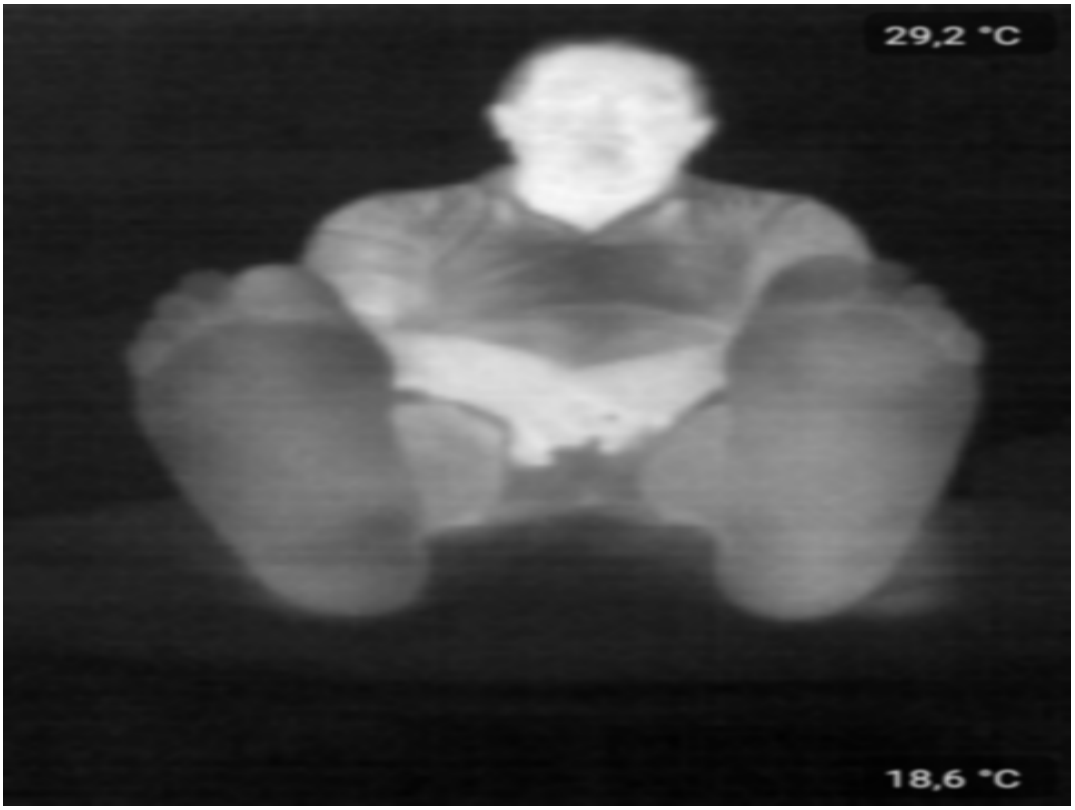
Face Summary

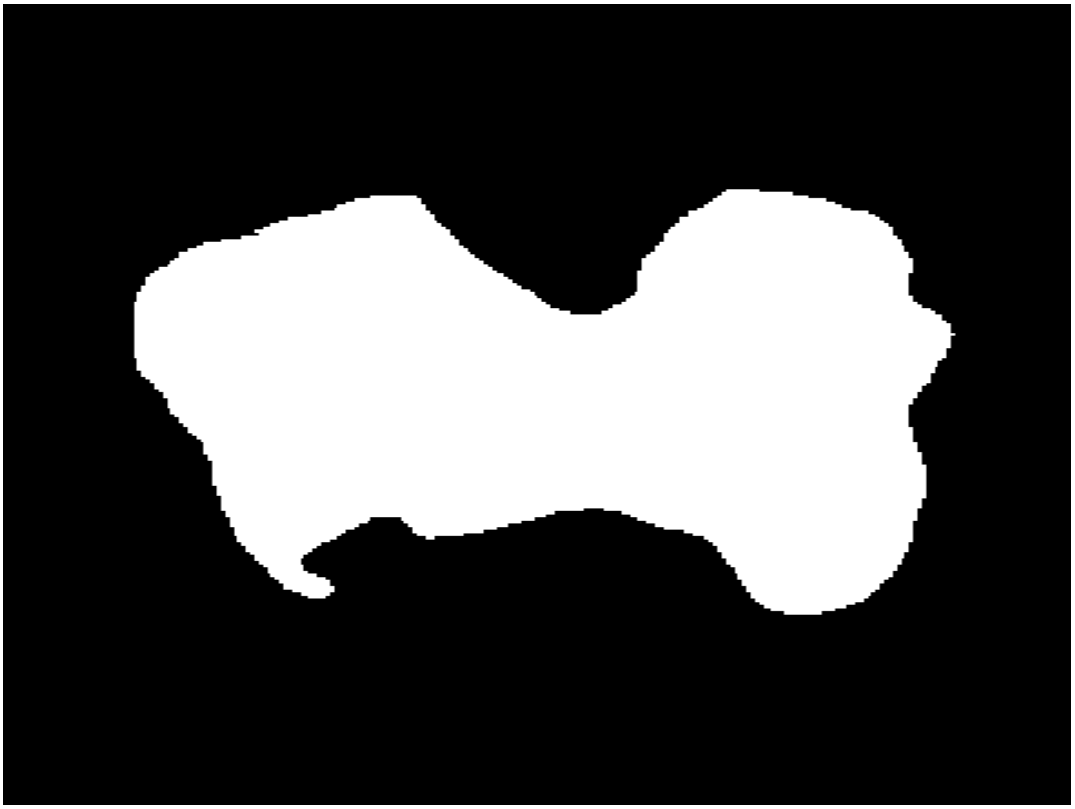
File	img20231126_205556.bmp

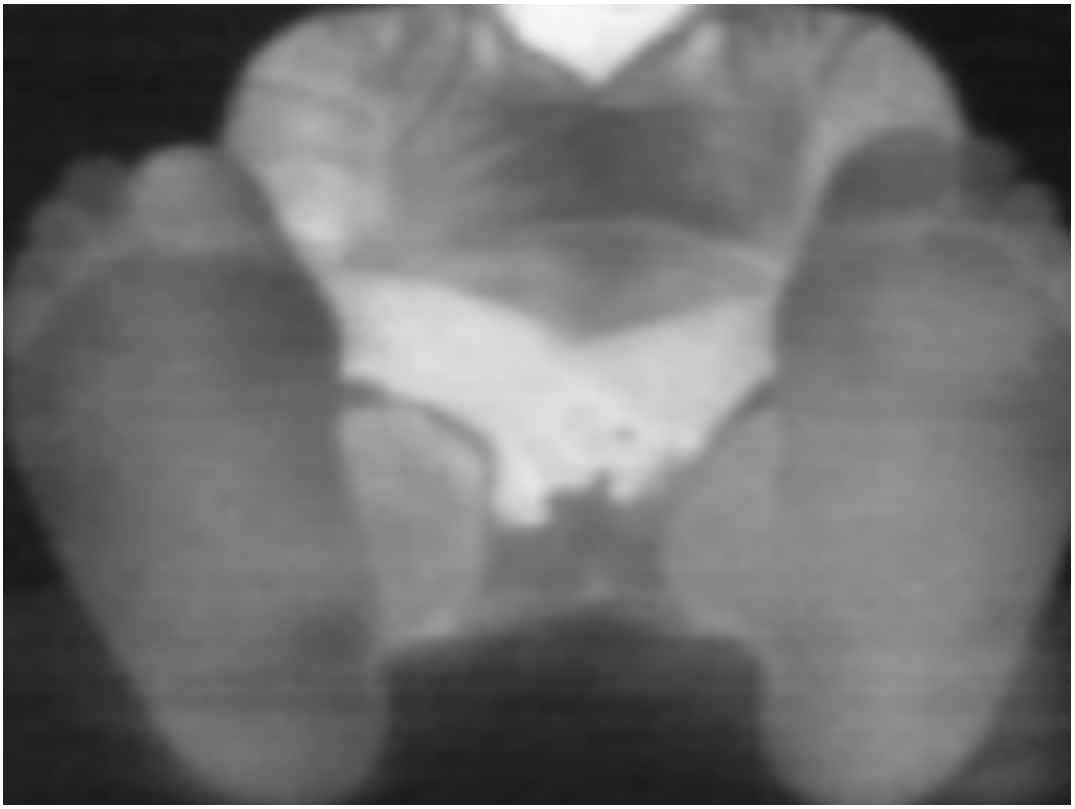
GLOBAL FACE FEATURES	
Mean Temp	102.52
Max Temp	248.00
Min Temp	1.00
Median	106.00
Variance	5759.09
Gradient Strength	35.677
Face Asymmetry Score	105.600
Cheek Side Diff	68.894
REGION FEATURES	
forehead	
Mean	122.43
Max	236.00
Min	8.00
Var	8633.86
left_cheek	
Mean	36.60
Max	209.00
Min	5.00
Var	2314.50
right_cheek	
Mean	176.63
Max	248.00
Min	13.00
Var	2474.99
nose	
Mean	162.14
Max	245.00
Min	23.00
Var	3274.61
mouth	
Mean	122.04
Max	229.00
Min	64.00
Var	1293.77
HOTSPOTS	
Count	9
Area Ratio	0.0607

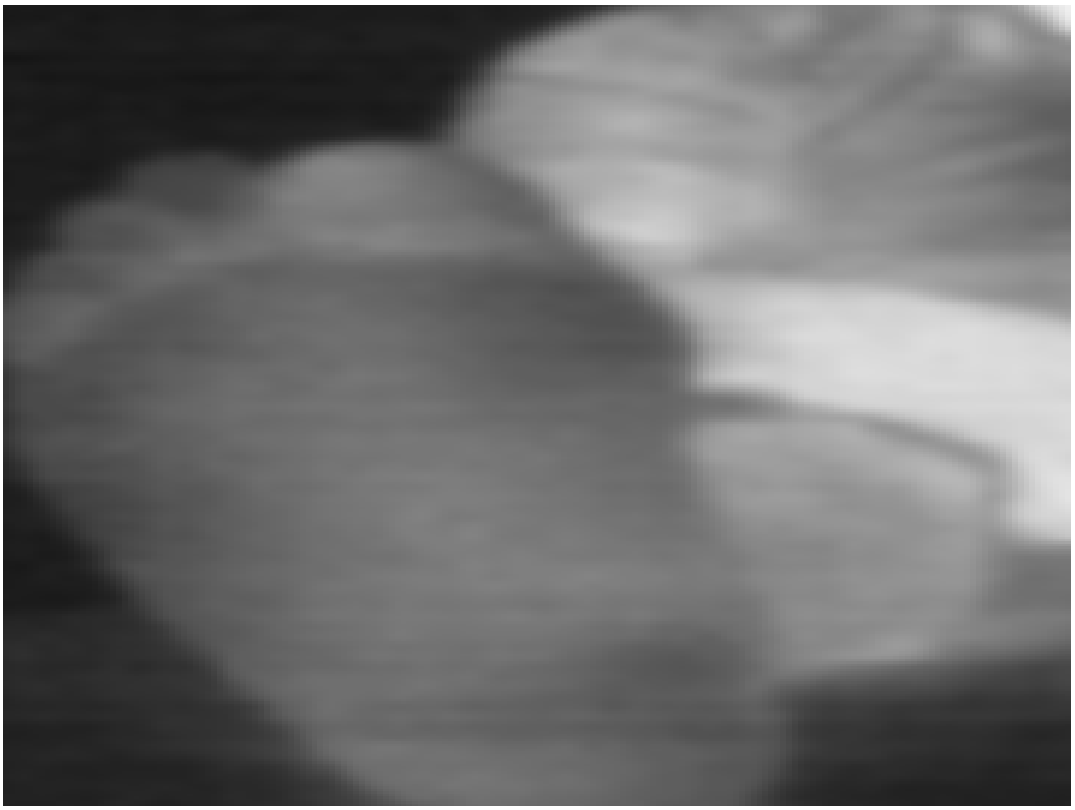
Largest Area	1352.50
Largest Centroid	(99, 54)

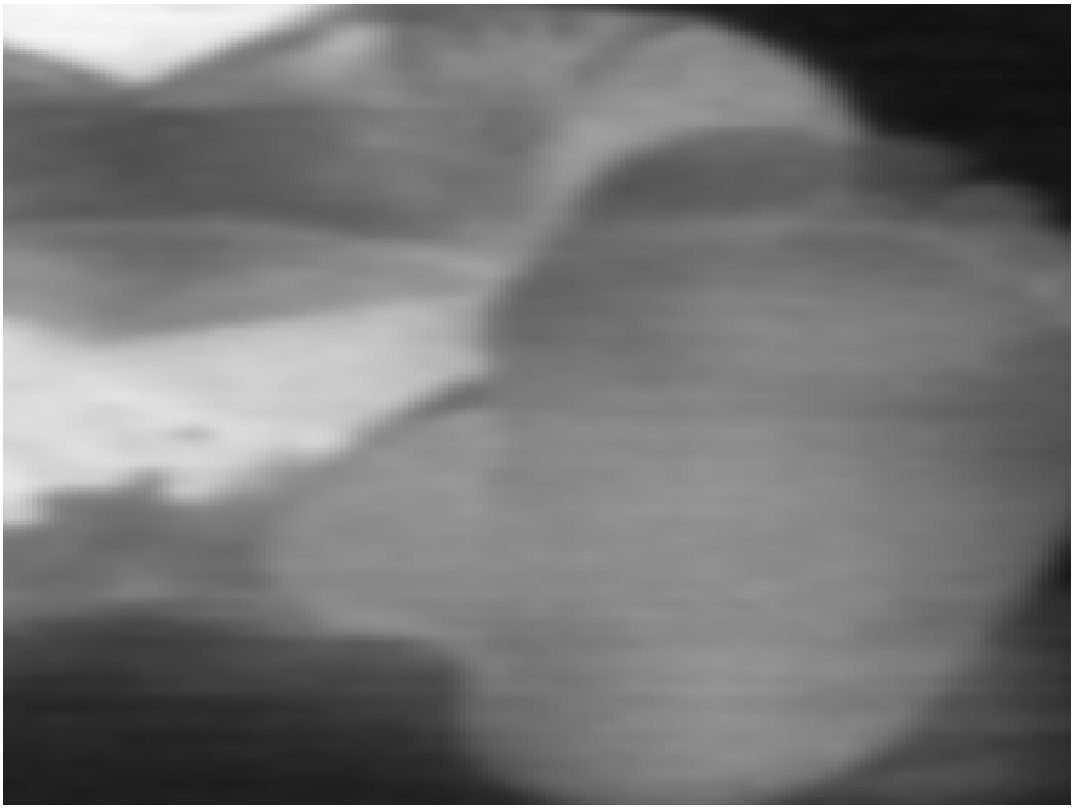
Feet Thermal Analysis

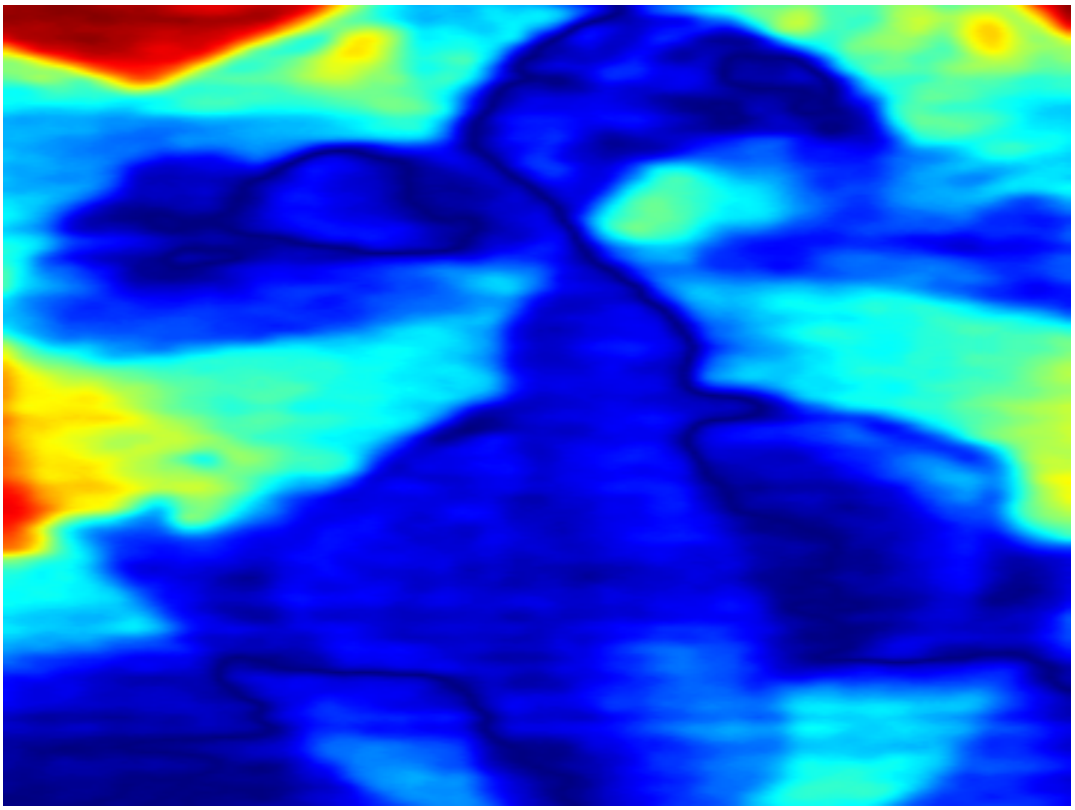












Feet Summary

File	diabetic/thermal/R0_0016.png
Group	diabetic/thermal
GLOBAL FEET ROI BOX	(np.int64(59), np.int64(148), np.int64(427), np.int64(487))
LEFT FOOT (whole)	
Mean Temp	106.60
Max Temp	240.00
Min Temp	21.00
Median	109.00
Variance	2239.65
Gradient Strength	15.290
RIGHT FOOT (whole)	
Mean Temp	116.01
Max Temp	248.00
Min Temp	16.00
Median	120.00
Variance	2071.10
Gradient Strength	15.664
ASYMMETRY (whole feet)	

Mean L-R difference score	51.250
PLANTAR HOTSPOTS (bottom of feet)	
Count	1
Area Ratio	0.0583
Largest Area	4048.50
Largest Center	(178, 33)

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.