ThermoMap Thermal Imaging Report

Patient ID: CASE_01

Name: Rahul Singh

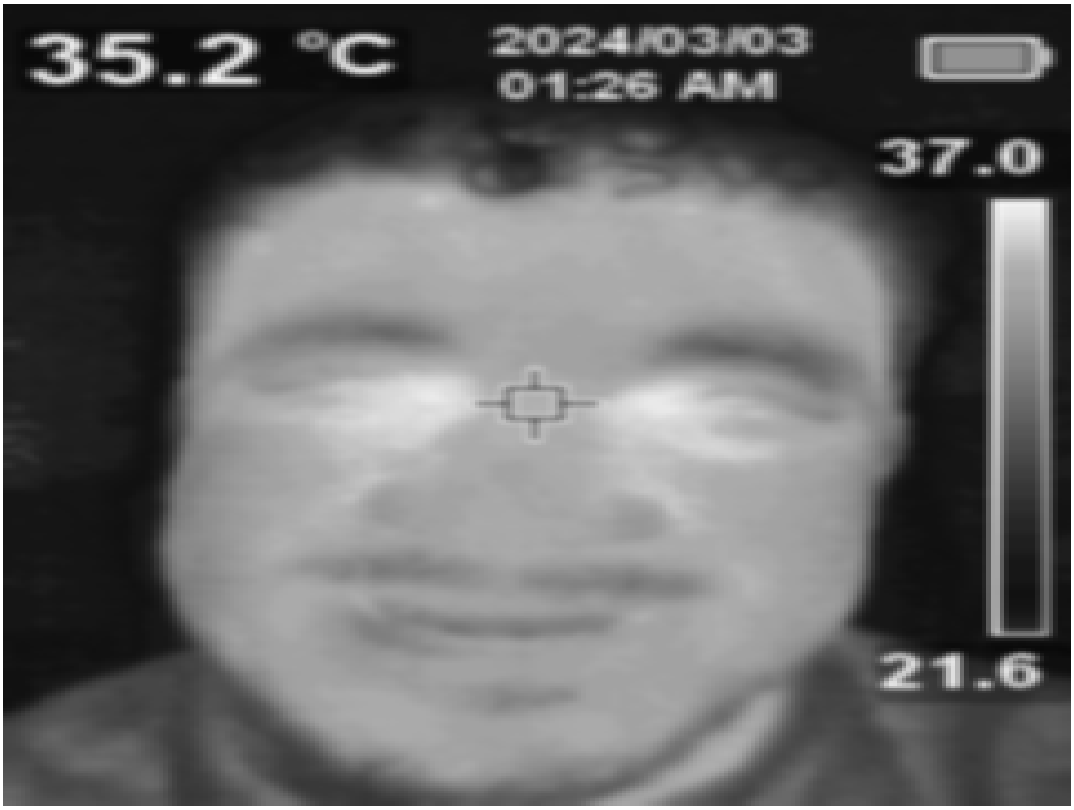
Age: 70

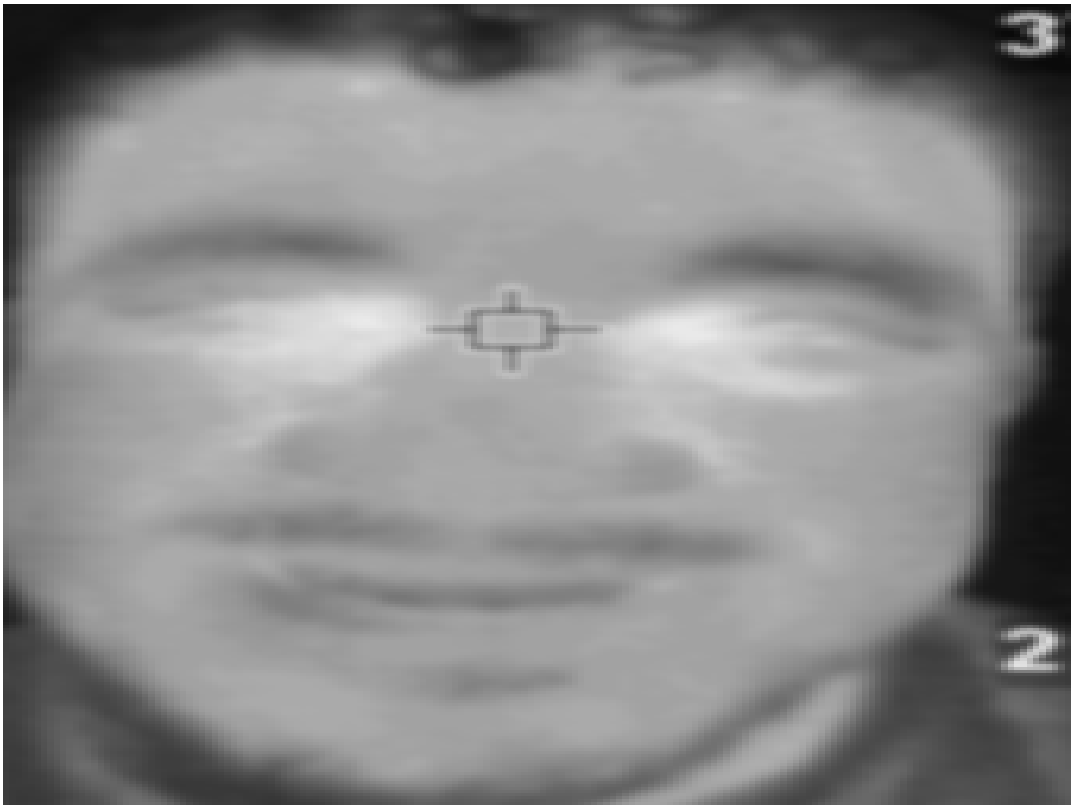
Gender: M

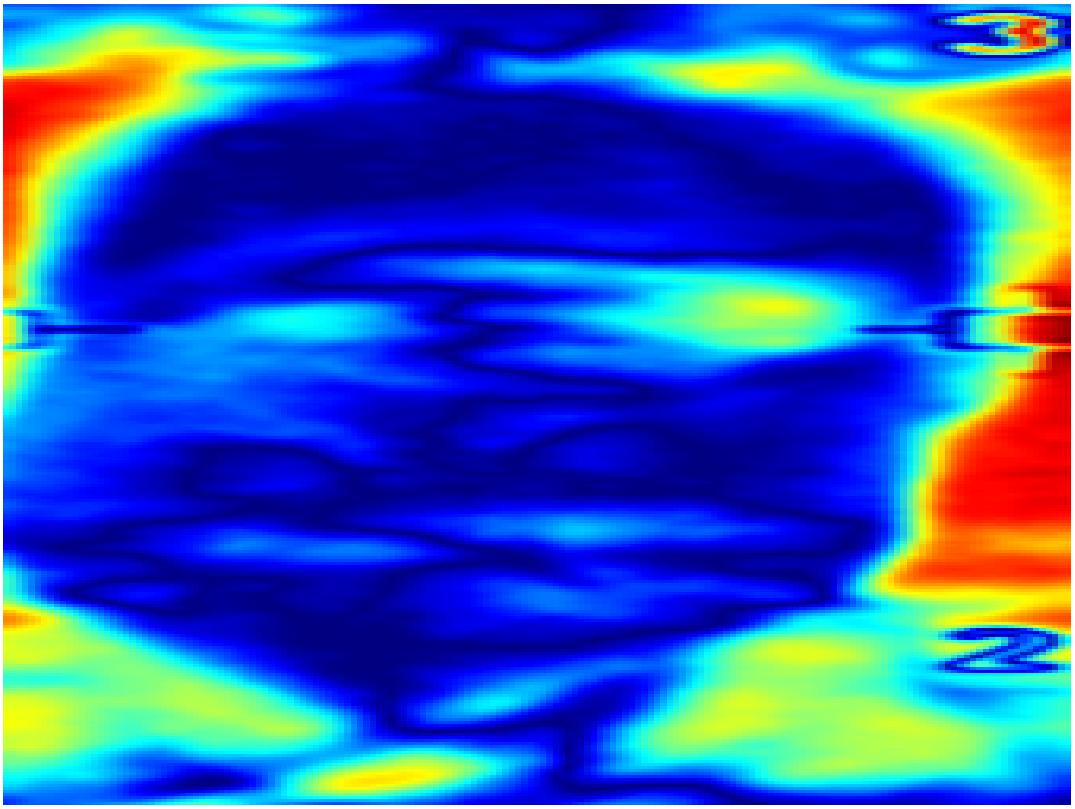
Risk Level: high

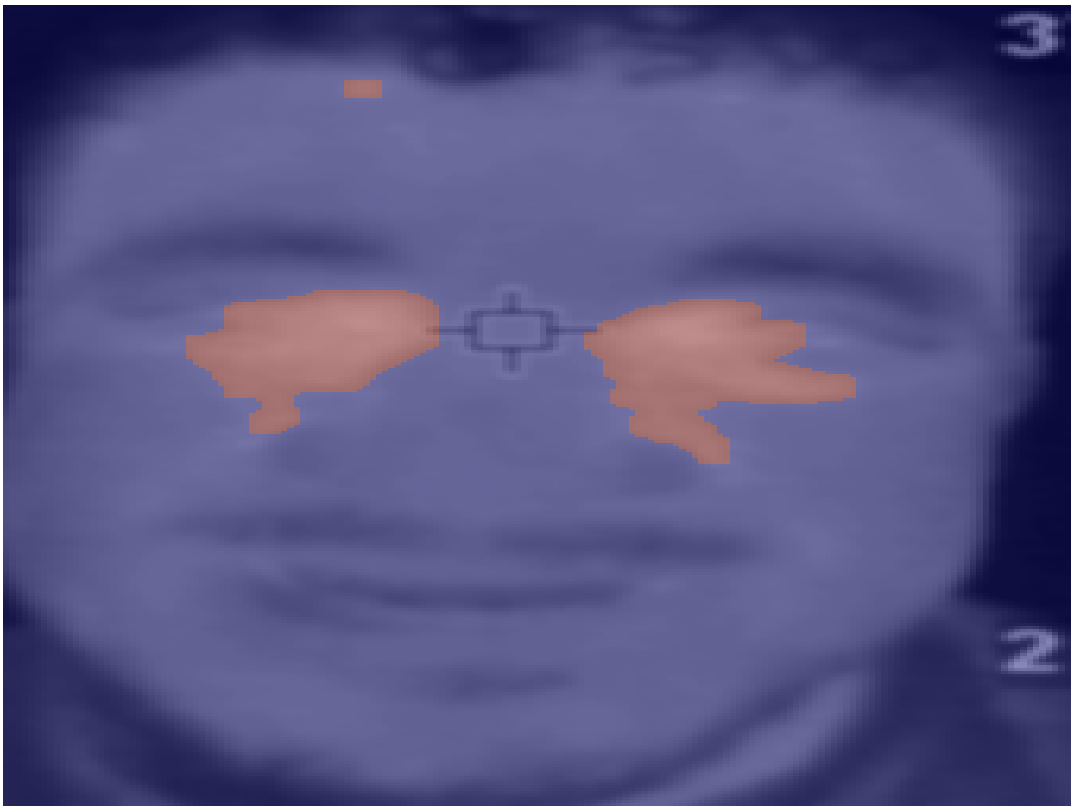
Notes: At-risk patient with prior abnormal thermal findings.

Face Thermal Analysis









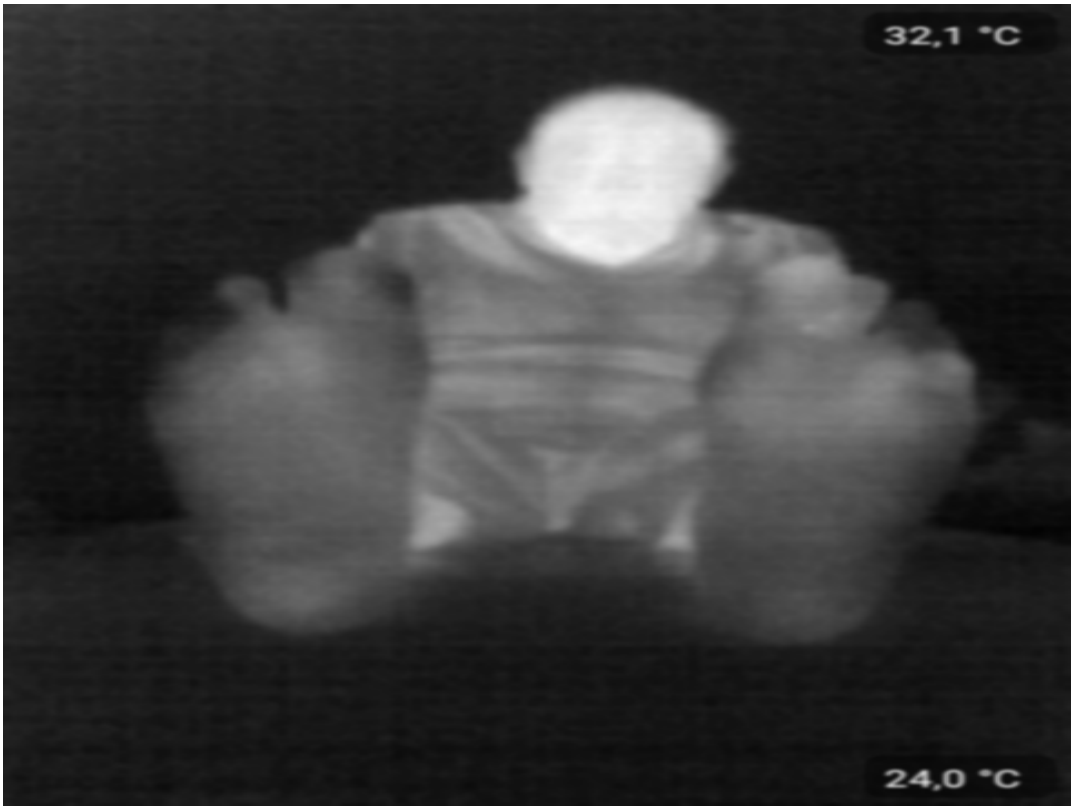
Face Summary

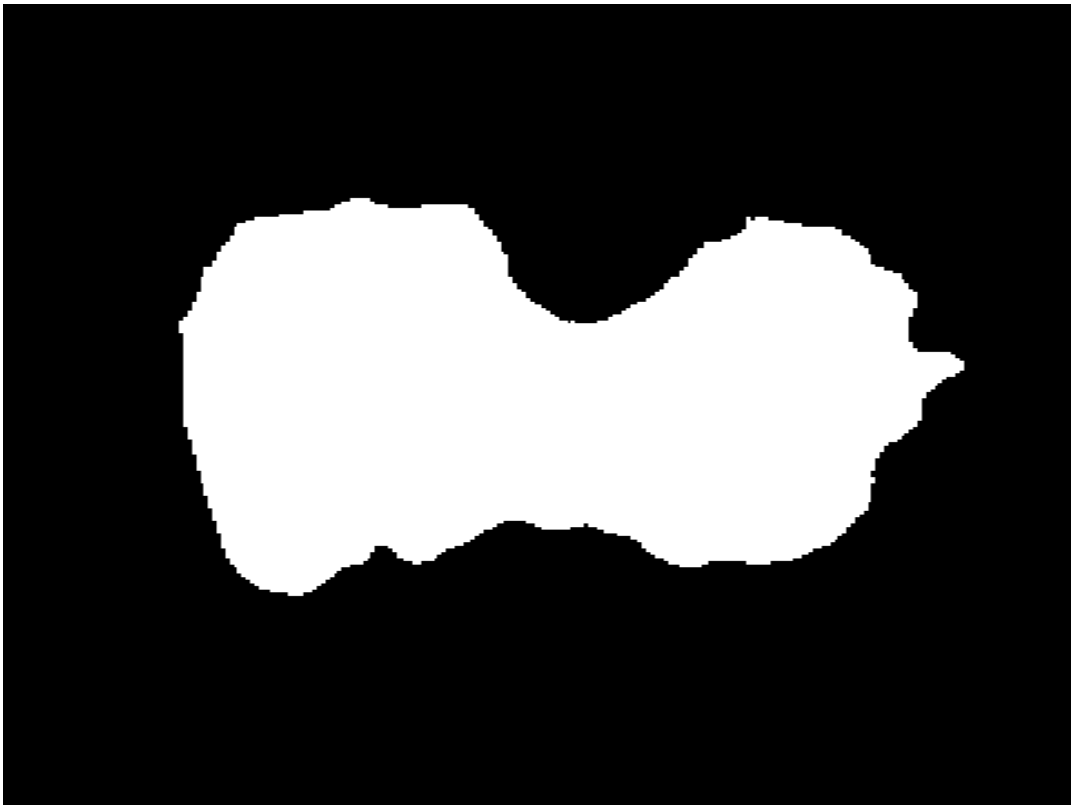
File	img20240303_012617.bmp

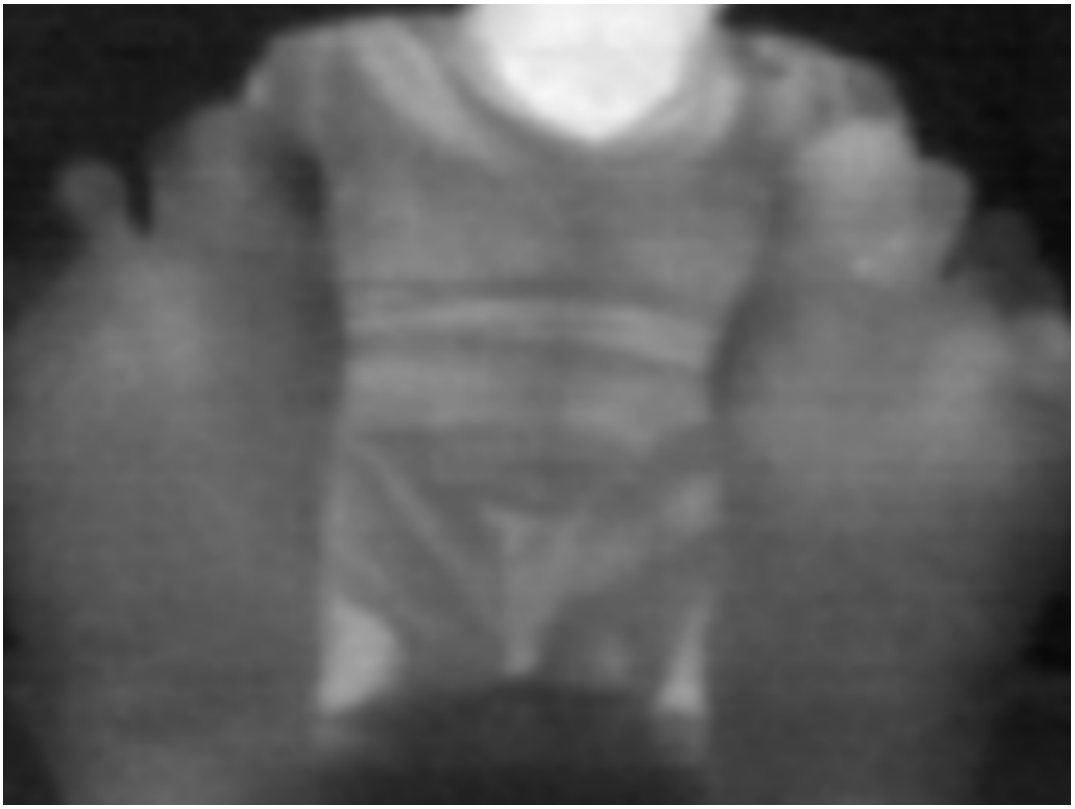
GLOBAL FACE FEATURES	
Mean Temp	137.38
Max Temp	234.00
Min Temp	10.00
Median	156.00
Variance	2141.60
Gradient Strength	29.765
Face Asymmetry Score	41.622
Cheek Side Diff	6.478
REGION FEATURES	
forehead	
Mean	157.94
Max	196.00
Min	43.00
Var	737.40
left_cheek	
Mean	168.46
Max	234.00
Min	105.00
Var	457.41
right_cheek	
Mean	160.80
Max	233.00
Min	24.00
Var	986.73
nose	
Mean	171.95
Max	233.00
Min	119.00
Var	270.04
mouth	
Mean	150.92
Max	173.00
Min	118.00
Var	146.40
HOTSPOTS	
Count	3
Area Ratio	0.0518

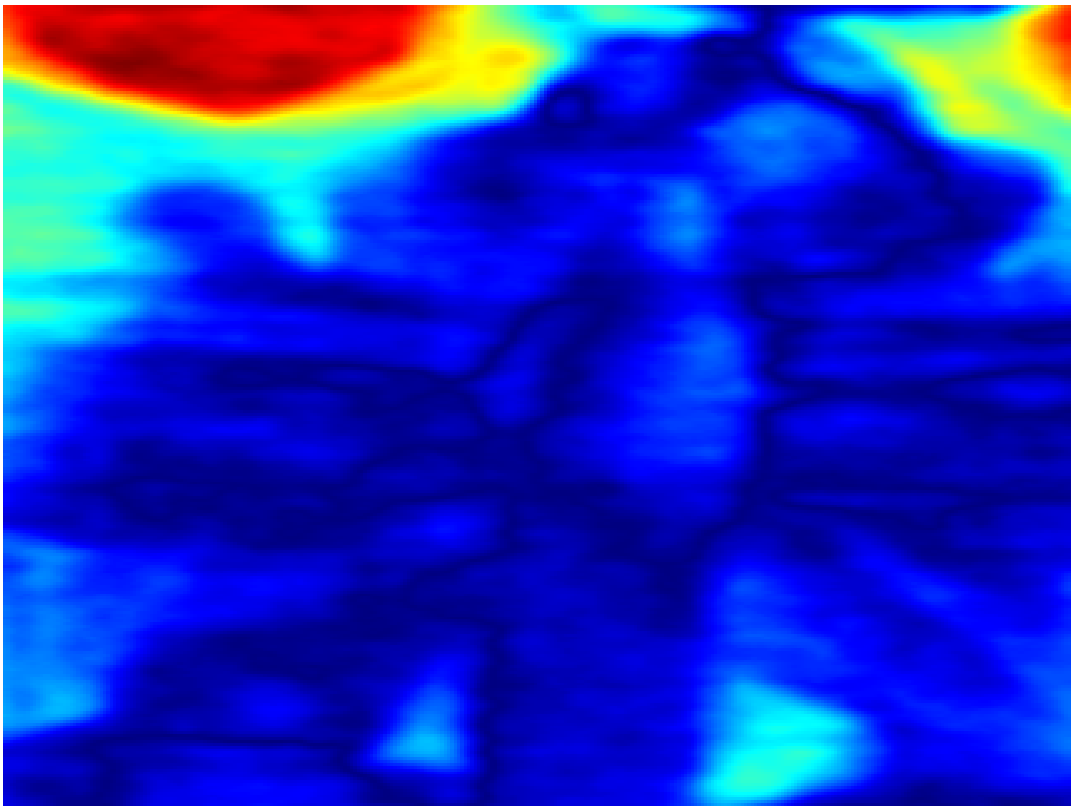
Largest Area	1215.50
Largest Centroid	(110, 120)

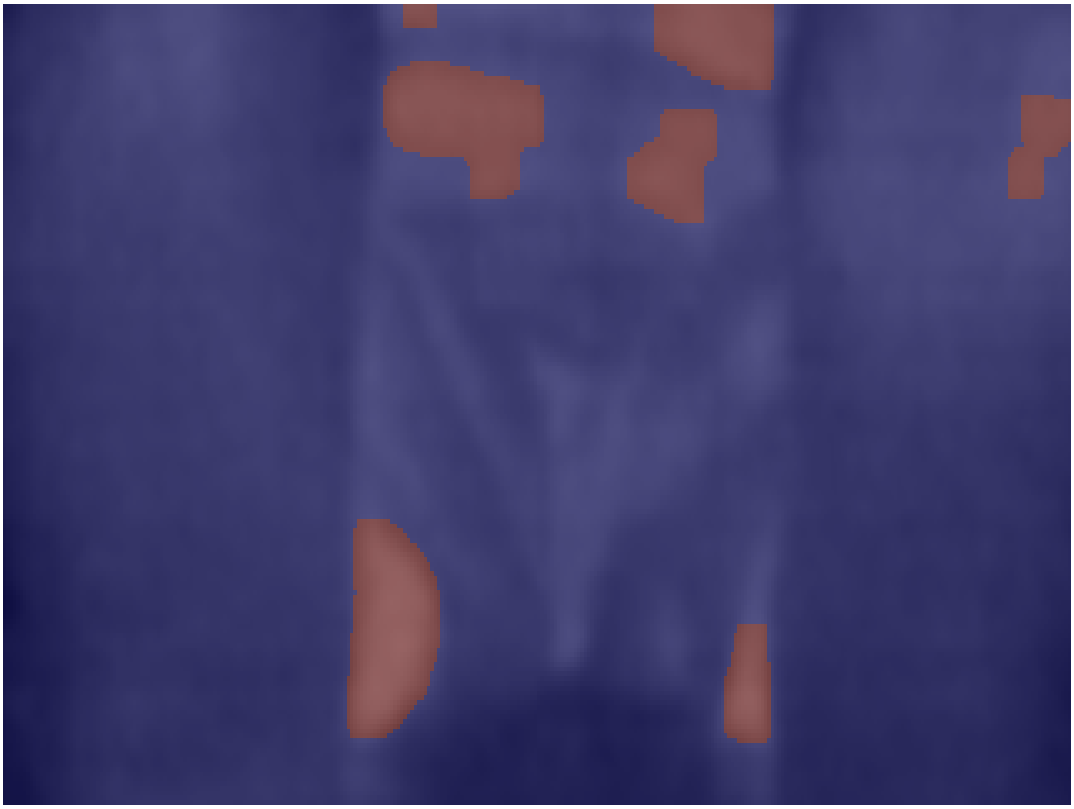
Feet Thermal Analysis











Feet Summary

File	diabetic/thermal/R0_0080.png
Group	diabetic/thermal
GLOBAL FEET ROI BOX	(np.int64(79), np.int64(155), np.int64(431), np.int64(472))
LEFT FOOT (whole)	
Mean Temp	88.82
Max Temp	210.00
Min Temp	19.00
Median	94.00
Variance	1038.46
Gradient Strength	14.722
RIGHT FOOT (whole)	
Mean Temp	99.35
Max Temp	247.00
Min Temp	9.00
Median	104.00
Variance	1749.16
Gradient Strength	15.648
ASYMMETRY (whole feet)	

Mean L-R difference score	39.375
PLANTAR HOTSPOTS (bottom of feet)	
Count	7
Area Ratio	0.0623
Largest Area	960.50
Largest Center	(115, 130)

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.