Ki-67 Proliferation Assessment Report

Patient Information

Analysis ID	9d3a9f35
Analysis Timestamp	2025-11-28T17:29:22.877087
Patient Name	PT-BATCH Case 4
Patient ID	PT-BATCH-004
Age	N/A
Gender	-
Contact	
Exam Date	2025-11-28
Physician	Batch Analysis
Clinical Notes	Batch upload - File: 98.png

Cell Detection Visualization

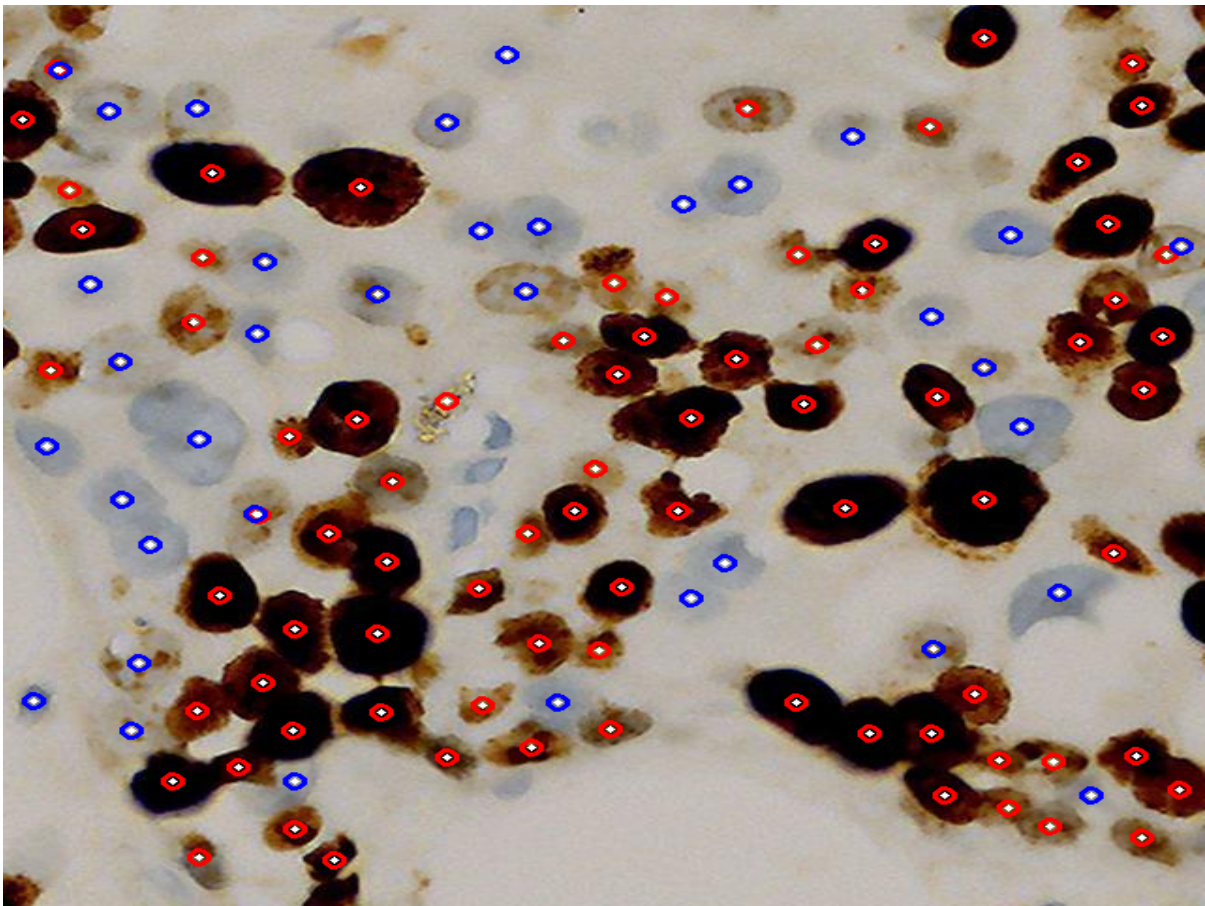Figure: Cell detection visualization with Ki-67 positive cells (green) and Ki-67 negative cells (red)

Analysis Results Summary

Metric	Value
Positive Cells (Ki-67+)	80
Negative Cells (Ki-67-)	36
Total Cells Detected	116
Ki-67 Proliferation Index	68.97%
Diagnosis Classification	Malignant
Risk Level	High Risk
Malignancy Status	Malignant

Manual (Ground Truth) Baseline

Positive Cells	85
Negative Cells	43
Total Cells	128
Ki-67 Index	66.41%
Classification	Malignant
Risk Level	High Risk

Quality Control Summary

Flagged for Review	No
Reason	Within acceptable tolerance
Positive Cell Δ	-5
Negative Cell Δ	-7
Total Cell Δ	-12
Ki-67 Δ	2.56
Ki-67 Δ (%)	3.85
Classification Match	Yes

Clinical Interpretation

Ki-67 index $\geq$ 30% indicates high proliferative activity, consistent with malignant characteristics. Requires aggressive treatment protocols and close monitoring.

Clinical Recommendation

Immediate oncological consultation recommended. Consider chemotherapy, targeted therapy, and surgical intervention. Regular follow-up essential.

Detection Statistics

Cell Type	Count	Percentage
Ki-67 Positive Cells	80	69.0%
Ki-67 Negative Cells	36	31.0%

Reference Information

Ki-67 Proliferation Index Interpretation Guidelines:
• <5%: Very Low Proliferation (Benign)
• 5-10%: Low Proliferation (Low Malignant Potential)
• 10-20%: Moderate Proliferation (Borderline Malignant)
• >20%: High Proliferation (Malignant)

Note: This report is generated by an AI-assisted analysis system. Results should be reviewed by a qualified pathologist and correlated with clinical findings.