

INDICATION

Used to assess and rapidly risk stratify neutropenic fevers in patients undergoing chemotherapy

INTERPRETATION

NCI RISK CATEGORY	ANC
0	Within normal limits ($\geq 2,000$ cells/mm 3)
1	$\geq 1,500$ to $< 2,000$ cells/mm 3
2 Mild Neutropenia	$\geq 1,000$ to $< 1,500$ cells/mm 3
3 Moderate Neutropenia	≥ 500 to $< 1,000$ cells/mm 3
4 Severe Neutropenia	< 500 cells/mm 3

NCI: National Cancer Institute neutropenia grades

CALCULATION

$$\text{ANC}_{\text{cells}/\text{mm}^3} = 10 \times \text{WBC} \times 10^9 \text{ cells/L} \times (\% \text{ Polymorphonuclear Neutrophils (PMNs)} + \% \text{ bands})$$