

MASCC Risk Index

A validated clinical risk index calculator for stratifying adult cancer patients with febrile neutropenia for outpatient management.

<https://example.com/1762583716457>

Overview

The MASCC Risk Index (Multinational Association for Supportive Care in Cancer Risk Index) is a widely validated clinical scoring system designed to stratify adult cancer patients with chemotherapy-induced febrile neutropenia (FN) into low-risk and high-risk categories for serious medical complications. Developed by the MASCC, the index is a crucial tool for guiding clinical decisions, specifically determining the appropriateness of outpatient management with oral antibiotics versus mandatory hospital admission for intravenous antibiotics.

Key Features and Capabilities

The "software" is typically implemented as a free, interactive calculator on various medical reference platforms (e.g., MDCalc, QxMD, EBMcalc) and mobile applications. The score is calculated based on eight clinical factors assessed at the onset of fever:

Burden of Illness (Symptom Severity): None/mild (+5), Moderate (+3), Severe (0)

Hypotension: Systolic blood pressure ≥ 90 mmHg (+5), < 90 mmHg (0)

Active COPD: No (+4), Yes (0)

Type of Cancer: Solid tumor (+4), Hematologic (no prior fungal infection) (+4), Hematologic (prior fungal infection) (0)

Dehydration Requiring IV Fluids: No (+3), Yes (0)

Status at Onset of Fever: Outpatient (+3), Inpatient (0)

Age: < 60 years (+2), ≥ 60 years (0)

Interpretation and Use

The maximum possible score is 26. A score of ≥ 21 points indicates a low risk for serious complications, suggesting the patient may be suitable for outpatient management with oral antibiotics. A score of < 21 points indicates a high risk, generally requiring hospital admission for IV antibiotics. The index has been endorsed by major societies like the Infectious Diseases Society of America (IDSA).

Target Users

The primary users are oncologists, emergency medicine physicians, infectious disease specialists, and other healthcare providers managing cancer patients with febrile neutropenia.

Key Features

- Risk stratification for febrile neutropenia (FN)
- Outpatient management suitability assessment
- Calculation of MASCC score (0-26 points)
- Validated clinical scoring system
- Guidance for empiric antibiotic therapy

Pricing

Model: free

The MASCC Risk Index is a free-to-use clinical scoring system. Its digital calculator implementations are provided for free on various medical reference websites and mobile applications (e.g., MDCalc, QxMD).

Target Company Size: startup, small, medium, enterprise

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