

Risk-Based Pathway for Outpatient Penicillin Allergy Evaluations

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Table E1. Predictors of adverse drug reactions and hypersensitivity reactions

Adverse Drug Reactions	Odds ratio [95% CI]*	P-value
Age	1.01 [0.99, 1.03]	0.48
Female	2.67 [1.00, 7.10]	0.05
White	1.28 [0.46, 3.55]	0.64
Number of other drug allergies		
1	2.43 [0.89, 6.60]	0.08
2	1.31 [0.36, 4.73]	0.68
≥ 3	3.74 [1.46, 9.57]	0.006
Incident reaction 1 year ago or less	2.19 [0.73, 6.52]	0.16
Aminopenicillin as penicillin culprit	0.87 [0.38, 2.01]	0.74
Respiratory symptoms with incident reaction	1.28 [0.35, 4.67]	0.71
Angioedema with incident reaction	1.14 [0.41, 3.23]	0.80
Unknown incident reaction	0.55 [0.15, 1.99]	0.37
Evaluation method direct challenge	1.23 [0.50, 3.05]	0.65
Hypersensitivity Reactions	Odds ratio [95% CI]*	P-value
Age	1.00 [0.98, 1.03]	0.81
Female	2.91 [0.83, 10.26]	0.10
White	2.33 [0.51, 10.80]	0.28
Number of other drug allergies		
1	3.85 [1.12, 13.27]	0.03
2	1.79 [0.38, 8.53]	0.47
≥ 3	3.17 [0.91, 11.11]	0.07
Incident reaction 1 year ago or less	2.64 [0.77, 9.12]	0.12
Aminopenicillin as penicillin culprit	1.07 [0.40, 2.88]	0.90
Respiratory symptoms with incident reaction	2.82 [0.74, 10.73]	0.13
Angioedema with incident reaction	1.23 [0.33, 4.57]	0.76
Unknown incident reaction	0.30 [0.04, 2.42]	0.26
Evaluation method direct challenge	1.73 [0.59, 5.06]	0.32
Non-Hypersensitivity Reactions (side	Odds ratio [95% CI]*	P-value

effects and subjective symptoms)		
Age	1.01 [0.98, 1.04]	0.44
Female	2.33 [0.50, 10.77]	0.28
White	0.70 [0.19, 2.67]	0.60
Number of other drug allergies		
1	0.91 [0.15, 5.66]	0.92
2	0.69 [0.07, 6.96]	0.75
≥ 3	3.76 [0.95, 14.96]	0.06
Incident reaction 1 year ago or less	1.19 [0.14, 10.25]	0.88
Aminopenicillin as penicillin culprit	0.57 [0.12, 2.71]	0.48
Angioedema with incident reaction	1.05 [0.22, 5.07]	0.95
Unknown incident reaction	1.05 [0.21, 5.18]	0.95
Evaluation method direct challenge	0.72 [0.15, 3.44]	0.68

*Multivariable logistic regression model results