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| **TABLE I:** Application of PARS, Published API, and mAPI Criteria to CCAAPS and IOW Cohorts for allergic asthma and non-allergic asthma.**Allergic asthma** |
|  | **Sensitivity** | **Specificity** | **PPV** | **NPV** | **LR+** | **LR-** | **AUC (95%CI)** |
| **CCAAPS** |  |  |  |  |  |  |  |
| PARS\*  | 0.72 | 0.77 | 0.31 | 0.95 | 3.17 | 0.36 | 0.82 (0.77 – 0.87) |
| mAPI  | 0.51 | 0.87 | 0.35 | 0.92 | 3.79 | 0.57 | 0.69 (0.63 – 0.75) |
| Loose API Index  | 0.61 | 0.81 | 0.31 | 0.93 | 3.18 | 0.49 | 0.71 (0.65 – 0.77) |
| Stringent API Index  | 0.35 | 0.93 | 0.43 | 0.91 | 5.26 | 0.69 | 0.64 (0.59 – 0.70) |
| **IOW** |  |  |  |  |  |  |  |
| PARS# | 0.83 | 0.78 | 0.23 | 0.98 | 3.77 | 0.21 | 0.87 (0.84 – 0.91) |
| mAPI | 0.42 | 0.94 | 0.35 | 0.95 | 6.65 | 0.62 | 0.68 (0.63 – 0.73) |
| Loose API Index  | 0.62 | 0.86 | 0.27 | 0.97 | 4.61 | 0.44 | 0.74 (0.69 – 0.79) |
| Stringent API Index | 0.38 | 0.95 | 0.39 | 0.95 | 7.97 | 0.65 | 0.66 (0.61 – 0.72) |
| **Non-allergic asthma** |
| **CCAAPS** |  |  |  |  |  |  |
| PARS\*  | 0.58 | 0.77 | 0.11 | 0.97 | 2.57 | 0.54 | 0.71 (0.60 – 0.83) |
| mAPI  | 0.38 | 0.87 | 0.12 | 0.97 | 2.80 | 0.72 | 0.62 (0.52 – 0.72) |
| Loose API Index  | 0.46 | 0.81 | 0.10 | 0.97 | 2.40 | 0.67 | 0.63 (0.53 – 0.74) |
| Stringent API Index  | 0.29 | 0.93 | 0.18 | 0.96 | 4.36 | 0.76 | 0.61 (0.52 – 0.71) |
| **IOW** |  |  |  |  |  |  |  |
| PARS\* | 0.62 | 0.84 | 0.18 | 0.98 | 3.81 | 0.45 | 0.74 (0.67 – 0.80) |
| mAPI | 0.26 | 0.94 | 0.19 | 0.96 | 4.06 | 0.79 | 0.60 (0.54 – 0.65) |
| Loose API Index  | 0.42 | 0.86 | 0.16 | 0.96 | 3.14 | 0.67 | 0.64 (0.58 – 0.71) |
| Stringent API Index  | 0.29 | 0.95 | 0.26 | 0.96 | 6.07 | 0.75 | 0.62 (0.56 – 0.68) |

LR+, Positive likelihood ratio; LR-, negative likelihood ratio.

\*Cut point of 6, #Cut point of 4; chosen at maximal sensitivity and specificity