## Prescription Patterns and trends IN the use of ICS-LABA Combinations in Indian children with asthma: The RAINBOW survey (Respicon 2024)

Subhasis Roy1, Srinivas Jakka2, Swapna Nair3, Vaishali Naik3, Meena Lopez3, Senthilnathan M.3, Jaideep Gogtay3

1Shaishab Clinic, Kolkata, India, 2Ankura Hospitals, Hyderabad, India, 3Department of Medical Affairs, Cipla Ltd., Mumbai, Maharashtra, India,

**Introduction**: Guidelines recommend use of combination of inhaled corticosteroid and long-acting beta-2 agonist (ICS-LABA) in children uncontrolled on ICS-alone. There is inadequate data on use of ICS-LABA in Indian children. This study aimed to characterize prescription trends of ICS-LABA for management of asthma in Indian children.

**Methods**: A digital cross-sectional survey was conducted among clinicians managing pediatric asthma across 19 Indian states between Aug'2023-Jun'2024.

**Results**: 454 clinicians (55.7% respiratory physicians, 44.3% pediatricians) participated in the survey. 62.7% pediatricians and 24.11% respiratory clinicians reported seeing >20 pediatric asthmatics/month, p<0.001. Usage of ICS-LABA was similar between the 2 specialties, with 64.03% respiratory physicians and 74.13% pediatricians reporting up to 50% of their patients being prescribed the combination. Asthma uncontrolled on low-dose ICS (53.96%), ICS + leukotriene inhibitors (49.78%) and PRN SABA (44.93%) were most cited reasons for prescribing ICS-LABA; more respiratory physicians compared to pediatricians reported using the combination in those uncontrolled on PRN-SABA (50% vs 39%, p=0.019). Reduction in night-time symptoms (34.33%) and emergency clinic visits (32.34%) were the most cited reasons for preferring ICS-LABA by pediatricians, whereas respiratory physicians cited reduction in daytime (32.41%) and night-time (27.27%) symptoms and emergency clinic visits (32.34%) as the most important benefits. Budesonide-formoterol was the most frequently used ICS-LABA by respiratory physicians and pediatricians (78.66% vs 61.69%, p<0.001), followed by fluticasonesalmeterol (11.86% vs 27.36%, p<0.001). The practice of using ICS-formoterol as maintenance and reliever therapy was more prevalent among respiratory physicians as compared to pediatricians (83% vs 63.68%; p<0.001. Majority of respiratory physicians and pediatricians preferred using ICS-LABA in children aged 6-12 years (77.87% vs. 89.05%, p=0.002). Pressurized metered dose inhaler + spacer was the most preferred device.

**Conclusion**: The results demonstrate good acceptance of ICS-LABA for management of pediatric asthma in India with budesonide-formoterol being the most preferred combination. ICS-LABA was reported to offer benefits such as reduction in symptoms and emergency clinic visits.