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| **Consumer- and expert-driven design of digital asthma management platforms.** |
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| **Introduction/Aim:** Although modern medicine has developed a range of evidence-based asthma management strategies, recent studies have shown that most patients do not have access or information to adequately apply these techniques. Persisting poor asthma control has driven research into digital asthma management solutions, but few have demonstrated sustained effectiveness. This highlights the importance of consumer-collaboration during design, in addition to expert involvement. Here we describe a unique process for developing digital asthma management platforms that prioritises consumer involvement.**Methods:** Our process involved: 1. A literature and market review;
2. Convening a steering committee, consisting of patient representatives, clinicians, researchers, asthma educators, a behavioural scientist, engineers, digital health specialists, and strategic marketing experts;
3. Convening a consumer reference group; and
4. Development of a qualitative study.

Platform developers will be engaged to provide expertise on user interface and user experience.**Results:** The literature review revealed that websites, mobile phone applications, text messaging programs, and telehealth have been effective in improving medication adherence, asthma control, and quality of life. An initial list of key content, developed from the market and literature review, was refined by the steering committee and two consumer reference group meetings (comprising 23% male, 15% rural, median age of 54 and range of 24-66 years old, and Australia-wide geographical representation). From this, the core elements of the platforms were produced: the Written Asthma Action Plan, medication adherence, inhaler device technique, trigger avoidance, and the management of comorbidities (Treatable Traits).**Conclusion:** The consumer-led development process has allowed us to define the core scope of digital asthma care platforms. A qualitative study will provide further feedback from a wider population, while a national randomised controlled trial will evaluate the efficacy of these platforms in improving asthma outcomes.**Grant Support:** Medical Research Future Fund, 2021 Clinical Trials Activity Grant |