

## Aim/Methodology

**Aim:** Leverage **social media listening** as a powerful research method to provide real-world, **patient-focused insights** on Cushing's Syndrome (CS).

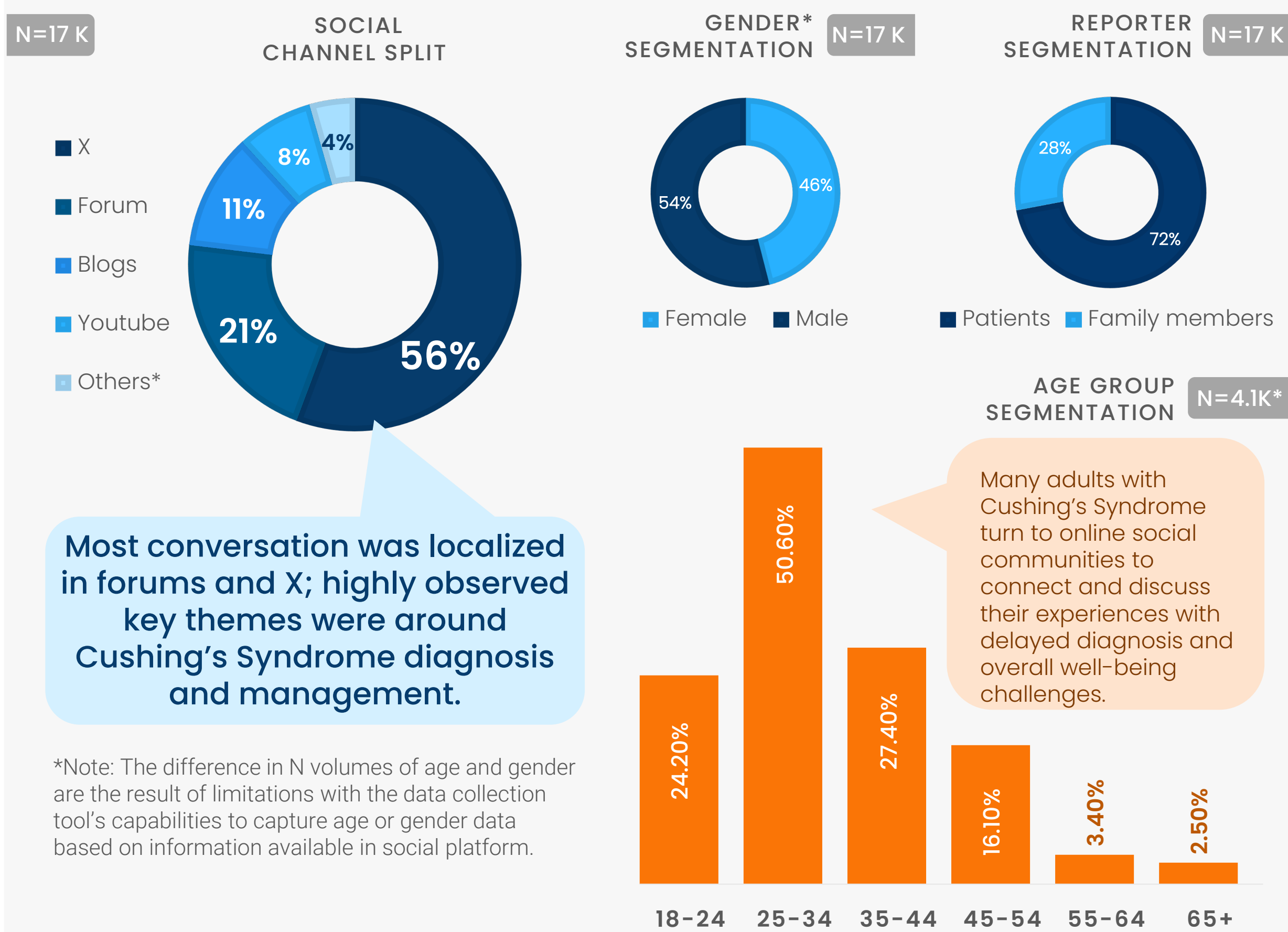
### Why Cushing's syndrome?

Due to the disease **rarity and scarcity** of published patient data, Cushing's Syndrome (CS) is challenging to diagnose and often goes undetected, exacerbating a patient's health condition. Patient conversations on social media can be used to understand patient **grievances** in Cushing's, leading to improved patient health.

### Methodology:

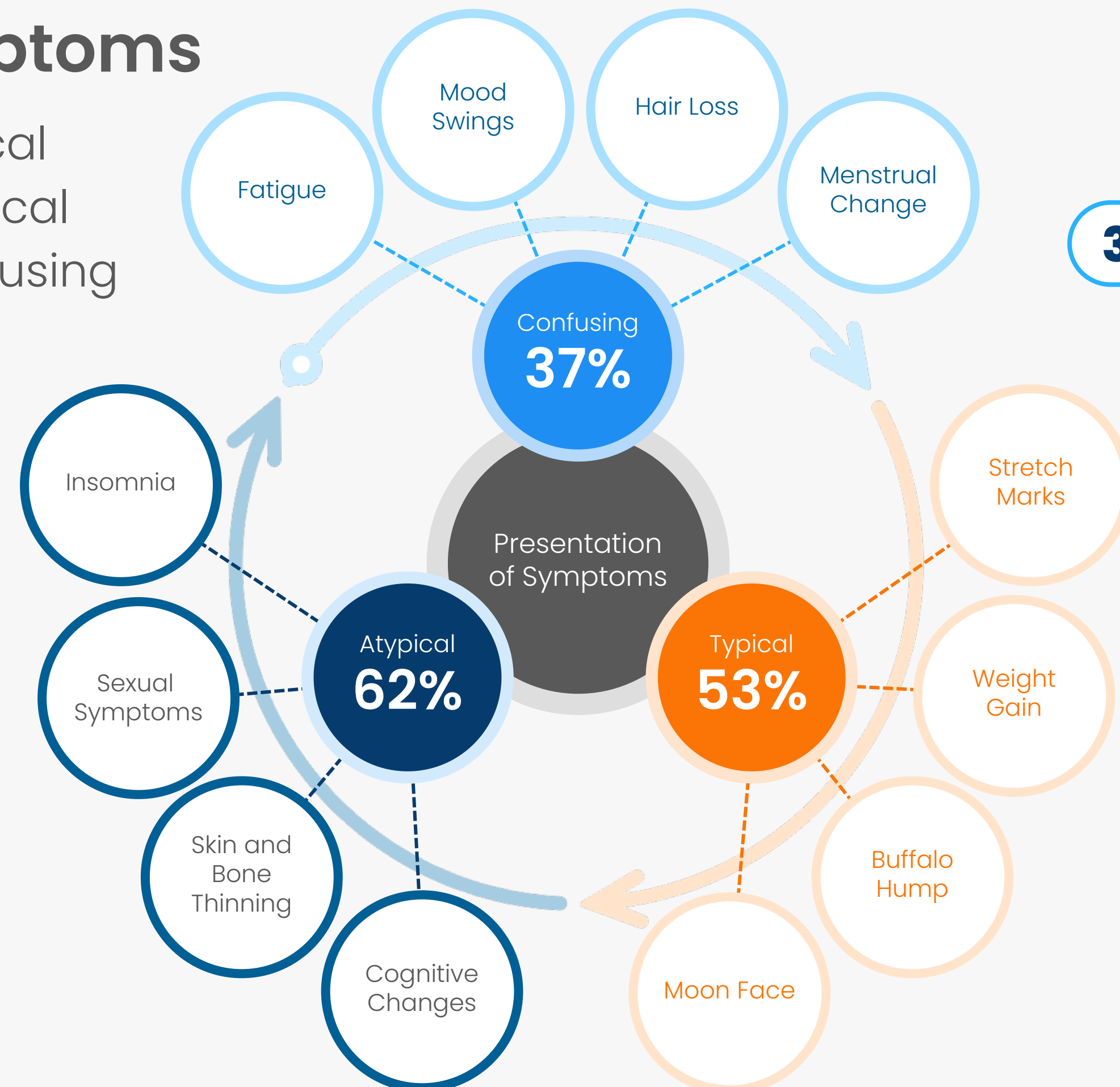
Data on **patient lexicon** for Cushing's syndrome was identified via research and a proprietary in-house tool. A conceptual model, guided by the **Cognitive Mediation Model**, was proposed to understand patient perspectives on social media. A Python web scraper complemented **manual data collection**, offering a comprehensive view of the data landscape.

## Demographics



## Symptoms

- Typical
- Atypical
- Confusing

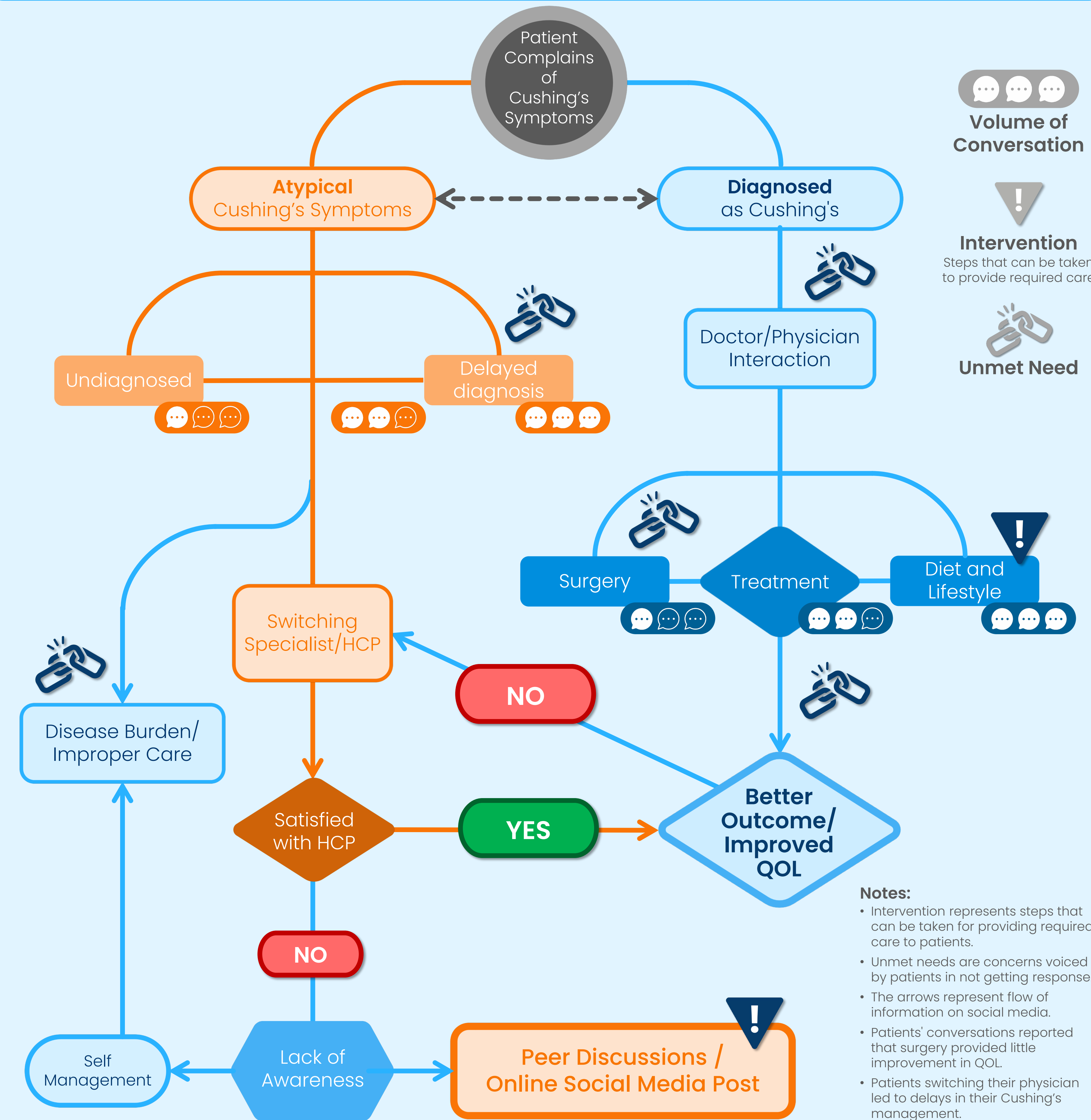


N=10K

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## PATIENT JOURNEY

Delayed identification and management of Cushing's syndrome drives patients to reach out to online forums



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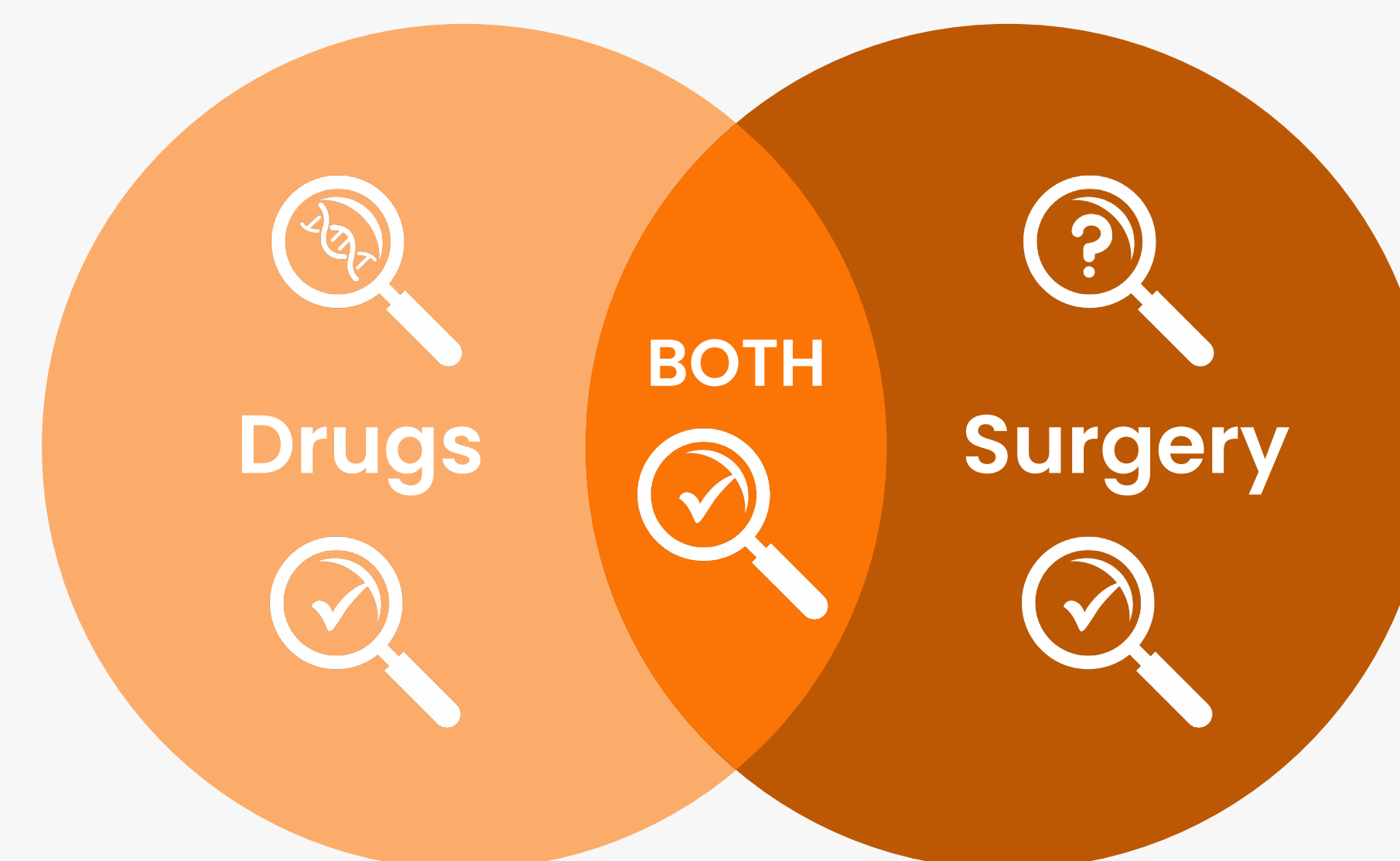
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## Patient segments

Most suspected Cushing patients are treated with first line treatment, while definitive or predisposed Cushing's patients are treated with both surgery and drugs to manage the symptoms, but longer time and high cost of disease management creates distress amongst patients.

- Suspected Cushing's
- Predisposed Cushing's
- Definitive Cushing's



N=5K

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## Recommendations

- Integrating **patient-centric endpoints** in HEOR studies improves real-world data assessment, aiding **informed decision-making** by healthcare stakeholders.
- Partnering with advocacy groups and patient organizations improves education on **effective disease management**, enhancing **treatment adherence** and timely medical attention, thus reducing healthcare burden.
- Directing resources towards **early diagnosis** and access to local Cushing specialists **saves costs** by avoiding unnecessary procedures and **enhances** patient quality of life.
- Analyzing social conversations by region helps allocate resources effectively by **identifying geography** with high patient concentrations.

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## Patient Physician Interaction

- Awareness:** Delayed diagnoses in many patients underscore the necessity for heightened awareness among healthcare professionals due to **insufficient information**.
- Misdiagnosis:** Patients frequently experience frustration due to the lack of **definitive tests** for Cushing's diagnosis, leading them to resort to self-diagnosis and potentially risking their health.
- Doctor Availability:** Frequent **appointment cancellations** suggest unavailability of doctors, resulting in delays in providing necessary care for patients.
- Feeling Unheard:** The prolonged uncertainty and dismissal by medical professionals can deeply impact patients, causing significant **emotional trauma** and affecting both their physical and mental well-being.

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N=6.4K

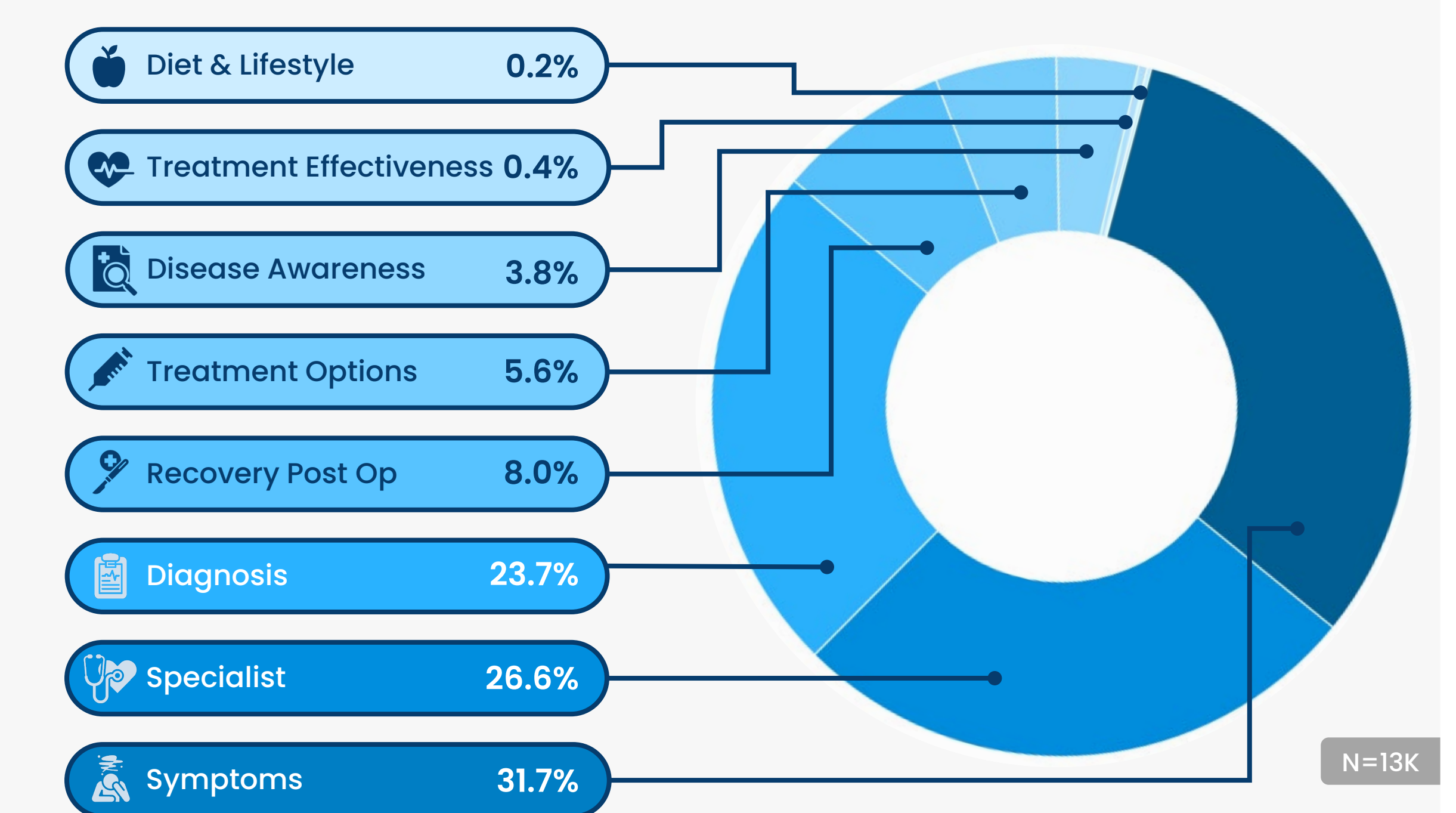
## Unmet Concerns

- Reduced quality of life, lack of support from HCPs and peers, delayed diagnosis, and misdiagnosis were some of the major patient concerns.
- Emotional / Peer Support ~ 17%**: As patients were affected emotionally, they looked for support from their family and relatives. Some patients felt isolated and sought **emotional support from peers online** in similar situations.
  - Quality of Life ~ 29%**: Cushing's patients impacts patients' **physical abilities** and affects their day-to-day activities. For some, it was emotionally distressing which in turn also **impacted their work and social life**.
  - Delayed Diagnosis or Misdiagnosis ~ 15%**: Patients discussed their experiences with **incorrect diagnosis**, that further led to delay in CS\* diagnosis.
  - Ineffective HCP Communication ~ 25%**: **Low confidence in consultation**, lack of face time, negligence and lack of empathy, not addressing specific patient queries, **delayed diagnosis** and **misdiagnosis** were some of the HCP related issues.
  - Caregiver Support ~ 14%**: Patients sought information on caregiver **support groups** where they could exchange and discuss their experiences about living with Cushing's syndrome.

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N=10K

## Patient Information Gaps



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N=13K