

Asthma Society of Canada



MAPPING THE PATIENT JOURNEY

A Guide based on the Severe Asthma Study



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MAPPING THE PATIENT JOURNEY

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About Mapping the Patient Journey

A. Purpose of the Mapping the Patient Journey Guide

The purpose of the *Mapping the Patient Journey* is to provide a how-to-guide with the necessary documents and study structure to global organizations and partners studying specific patient population group(s) with a severe health condition of interest in order to map out the journey of the patient(s) with a severe health condition and to identify their key issues and areas of concern regarding the treatment and management they receive for their severe health condition through their local healthcare system.

B. Components of the Mapping the Patient Journey Guide

Mapping the Patient Journey is to be used by global and national organizations in collaboration with community partners and patient population group(s) of interest to implement the Severe Asthma Study in order to map out the patient(s) journey with a severe health condition.

Mapping the Patient Journey includes the following components:

- 1. Program Background: Including detailed information about the Severe Asthma Study, the conception of the study, goals and outcomes.
- 2. Operations of the Severe Asthma Study: Detailed information on the process taken to implement the Severe Asthma Study.

C. Supports for the Implementation of the Severe Asthma Study

- 1. Operations of Severe Asthma Study: Information on the Severe Asthma Study, and the operations of the study.
- 2. Severe Asthma Study materials and tools: Materials and tools needed for all organizations and community partners to implement the Severe Asthma Study as follows:
 - Advisory Group tools and process: Includes the process on how to establish an advisory group, invitation letter and terms of reference template.
 - Materials and resources for various social media and communications platforms: Includes promotional flyer, the Asthma Society of Canada website alert/National Asthma Patient Alliance/Twitter alerts and telephone and email communications to asthma clinics for recruiting participants for the study.
 - Data collection tools and processes: Includes the data collection tools such as the online screener, online surveys and interview discussion guide templates, as well as consent forms for participants and oath of confidentiality form for facilitator.

The implementing organizations and community partners can modify the materials and tools as needed to implement the steps of this study based on the needs of their patient population group(s), as well as the content and design of the *Mapping the Patient Journey* guide and operational processes taken to implement the *Severe Asthma Study*. In order to achieve the effectiveness and outcomes similar to this study it is important to follow the implementation process as provided in *Mapping the Patient Journey*, however implementing organizations are asked to note any key challenges and additional steps included to better improve the process of implementing a study similar to the *Severe Asthma Study*.

Study Background

A. What is the Severe Asthma Study?

The burden of Severe Asthma on the Canadian health system has neither been well-understood from the patient perspective nor well-recognized within national and regional health system priorities. Asthma is one of the most common diseases in Canada, the third most common chronic disease, affecting 2.4 million Canadians over the age of 12¹ and a further 485,700 of children between the ages of 4 and 11 years of age². Despite the high prevalence, asthma remains greatly misunderstood, and its impact on peoples' health and quality of life underestimated by both those living with the disease as well as the general public. It is estimated that somewhere between 150,000 and 250,000 Canadians are living with Severe Asthma while representing only between 5 and 10% of people with asthma, constituting a considerable health care concern. Up to an additional 500,000 Canadians suffer from moderate asthma, with almost 50% experiencing uncontrolled symptoms. In addition, some studies indicate that up to 53% of Canadian patients with asthma are poorly controlled, further lowering their health outcomes and quality of life^{3 4 5 6}. Uncontrolled asthma and Severe Asthma leads to a burden on our healthcare system, economy and well-being. Most surprisingly to many people, asthma can be fatal and approximately 250 adult Canadians die each year from asthma⁷.

In 2006 a survey entitled, Asthma control in Canada remains suboptimal: The Reality of Asthma Control (TRAC), was conducted and showed that 47% of asthma patients surveyed had controlled disease according to symptom-based guideline criteria, only 11% of patients had written action plans, and one-half of patients with action plans did not use them regularly (Fitzgerald et al, 2006). The comprehensive study conducted by the Asthma Society of Canada (ASC) in 2013 entitled: Asthma Matters: A Study on Adult Canadians Living with Severe and/or uncontrolled Asthma, targeted adult Canadians, aged 18 and over, living with severe and/or uncontrolled asthma. The Asthma Society of Canada developed the Severe Asthma Study by adapting the Fighting for Breath - A European Patient Perspective on Severe Asthma (2004), conducted in Europe by the European Federation of Allergy and Airway Diseases Patients Association, Severe Asthma in Ireland and Europe: A Patient's Perspective (2007) by Asthma Society of Ireland and Fighting for Breath: The hidden lives of people with severe asthma (2010) by Asthma UK models. These models were designed to look at the patient experience and focused on children as well as adults with asthma and Severe Asthma across Europe, whereas, the Asthma Society of Canada modified the methodology used in the European studies to further address the evidence gap by providing an up-to-date understanding of severe and/or uncontrolled asthma in Canada. The methodology used focused on gathering information from the patients' perspectives on their experiences living with Severe Asthma from childhood to adulthood. The Severe Asthma Study explored in-depth the prevalence, burden, needs, and expectations of patients with asthma further asking questions on motivation, or lack thereof, for compliance and adherence to asthma management plans. This study was also the first step towards establishing national and provincial/territorial perspectives on the social and economic impact of severe and/or uncontrolled asthma in Canada. This was to be used by health care professionals, pharmaceutical companies, researchers, governments and policy makers in Canada to address severe and/ or uncontrolled asthma.

¹ Canadian Community Health Survey (2010), Statistics Canada

² Life and Breath, Respiratory Disease in Canada (2007), Public Health Agency of Canada

³ Asthma Control in Canada; No improvement since we last looked in 1999. McIvor RA, Boulet L-P, FitzGerald J, Zimmerman S, Chapman KR. Canadian Family Physician 2007;53:672-7

⁴ Suboptimal asthma control: Prevalence, detection and consequences in general practice. Chapman KR, Boulet L-P, Rea RM, Franssen E. European Respiratory Journal 2008:31:320-5

⁵ Asthma control in Canada remains suboptimal: the Reality of Asthma Control (TRAC) study, Fitzgerald M, Boulet L-P, McIvor RA, Zimmerman S, Chapman KR. Can Respir J 2006;13:253-9

⁶ Examining asthma quality of care using a population-based approach, Klomp H, Lawson JA, Cockcroft DW, et al. Can Med As soc J 2008;178:1013-21

⁷ Admissions to Canadian Hospitals for acute asthma: A prospective, multicenter study, Can Respir J. 2010 Jan-Feb: 17(1): 25-30

B. What was the Study Goal and Objectives?

Study Goal

The main goal of the proposed study was to gain a better understanding about the experiences of Canadian adults, aged 18 and over affected by severe and/or uncontrolled asthma and their needs and priorities in asthma management. This was done by capturing the patients' voice and experience through personal descriptions of their journey with Severe Asthma, the patient's characteristics and behaviours, the patients' perspective and their management and treatment of Severe Asthma.

Study Objectives

There were two objectives to this study:

- 1. The first objective was to undertake a mixed design (qualitative and quantitative) study involving Canadians with Severe Asthma, mapping out their journey with asthma, to ultimately ensure that the patient voice and patient experience was heard by:
 - The Canadian public to educate them on the personal, social and economic cost of Severe Asthma in Canada;
 - Public policy makers through a call to action to governments in Canada to create provincial, territorial and national asthma strategies and meet the needs of Canadians with Severe Asthma;
 - The pharmaceutical and medical device industries to promote innovation and better therapeutic treatments to provide greater options and alleviate the suffering of people with Severe Asthma;
 - Health care professionals to draw attention to patient needs, desires and priorities;
 - Canadian asthma researchers to focus research efforts on stated patient concerns;
 - Asthma Society of Canada stakeholders, funders and partners to focus attention on the severity and the burden of illness faced by people with Severe Asthma in Canada.
- 2. The second objective was to provide the foundation for a quantitative study to verify the qualitative study, assess regional and demographic differences, and identify further key issues and areas of concern, from the patient perspective, regarding the treatment and management of Severe Asthma in the Canadian Healthcare system.

C. What Outcomes did we want to Achieve?

The outcomes of the proposed study included the following:

- To have a better understanding about the needs of adult Canadians living with severe and/or uncontrolled asthma and their priorities in asthma management
- To use this understanding in developing Asthma Society of Canada resources and programs to educate the Canadian asthma community on the importance of proper asthma control
- First step to providing guidance for a quantitative study based on qualitative trends
- Build a case for a call to action for governments to address issues affecting those living with Severe Asthma
- Raise public awareness about the burden of severe and/or uncontrolled asthma

D. What was the Success Criteria?

The criteria that allowed us to confirm that the study had been delivered successfully was the following:

- Recruited participants who were adult Canadians 18 and above living with severe and/or uncontrolled asthma, using screener questions
- Representation from selected regions (Ontario, Quebec, Alberta), because of existing partnerships and collaborations within these regions through the Canadian Severe Asthma Network, the National Asthma Patient Alliance and asthma clinics across Canada
- Obtained data on each of the outcomes

• Developed resources and deliverables that were effective and useful

E. What was the Participant Eligibility Criteria?

The eligibility criteria included the following:

- Study participants were identified as Canadian
- Adults 18 years and above
- Lived with severe controlled or uncontrolled asthma
- Diagnosed with asthma by a physician

All potential participants were evaluated through a strict screening process and only qualifying applicants were contacted for the qualitative in-person interview phase. All participants who qualified for the in-person interview were given the option to not participate after being provided with details on the in-person interview at the end of the online screener. They were also provided with a consent from that was completed prior to the in-person interview that provided participants with the option to withdraw from the study at any time and informed them that only information gathered prior to the withdrawal would be used for the purpose of the study.

F. What did the Study not Include?

The study did not include the following:

- Participants under the age of 18 (exclusion of children and youth)
- Provincially based information
- A large group of participant involvement
- A comprehensive quantitative study

Operations of the Study

This section of the *Mapping the Patient Journey* will describe a detailed outline of the implementation process for the Severe Asthma Study.



Step 1: Apply for Funding

It is important for any organization before conducting a study similar to the Severe Asthma Study to decide on the funding resources and secure funding prior to conducting the study. It must be taken into account when applying for funding to ensure the focus of the proposed project or activity is evident and to explain what the funding will be used for by being clear about the intended outcomes and scope of the study.

Step 2: Develop a Work Plan

A work plan should be developed through the following process:

- A. Meet with the implementation team to determine the following:
 - a. Main purpose of the project, goal(s) and objective(s)
 - b. Main purpose, goal, objectives of each committee/group identified to be important by the agency to implement a study similar to Severe Asthma Study, for example the Advisory Group
 - c. Terms of reference for each of the committees/groups outlining project details, objectives, responsibilities and timelines, main deliverables, specific tasks and timelines, personnel involved and updates
- B. Meet with the each of the committee/group members to determine the following:
 - a. Key objectives
 - b. Expected outcomes
 - c. Activities to be conducted
 - d. Project results and products to be achieved
 - e. Timelines
 - f. Staff Involvement/responsibilities
- C. Develop a flow chart/map

The work plan should be developed in order to assist the project team in outlining the key steps, activities, goals that need to be achieved during the planning, implementation, evaluation and dissemination phases of the study conducted. Furthermore, including time taken to complete each step identified by the implementation team is important because this allows the team to review the work plan on a regular basis to see if they are reaching the goals and milestones in a timely fashion. The amount of time allocated to each component of the process will depend on the time and resources the agency allocates to the study, the question being studied, scope of the study and the funding received. The overall time from inception to dissemination for the Severe Asthma Study was approximately 7 months. The implementation of step 1 through step 7 took three months and this was determined by the time and resources that were allocated towards the study.

Step 3: Literature Review/Environmental Scan

Complete a comprehensive literature review of relevant and appropriate surveys, studies, articles and programs (pertaining to the patient population group in question). The review should be conducted by the agency that is implementing the study. The literature review should be conducted using the following steps:

- 1. Choose the topic of study
- 2. Define the research question
- 3. Decide on the scope of the review, whether it will include regional, national, and/or global data. This will be determined based on the topic and research question your agency wants to study
- 4. Select the databases that will be used to conduct the searches
- 5. Conduct the searches and find the literature
- 6. Keep track of the searches
- 7. Review the literature

The greatest challenge faced with the literature review was that an in-depth literature review could not be conducted at the beginning of the study planning due to limited resources, but instead was conducted throughout the study steps. Ideally, the literature search should be conducted prior to implementing the study. This activity should be included in the work plan.

Step 4: Engage with Partners/Stakeholders/Organizations

Establish an Advisory Group (AG) through this process:

- 1. Recruit AG members
 - a. Advisory group members should be recruited based on the need and capacity to support the AG by the agency implementing the study (approximately 8 to 10 members).
 - b. Advisory group members should be able to represent the patient population group the agency is studying.
 - i. Individuals recruited should include but not be limited to: having a medical/clinical background, local stakeholders and partner representatives with similar values and goals and individuals with lived experience on the health condition being studied. Note: it is important to recruit AG members from regions/communities your agency plans to study.
 - c. Once a list of potential AG members have been selected by the implementation team an invitation letter should be sent to those identified to take part in the AG (Appendix A)
- 2. Develop a terms of reference (ToR) (Appendix B)
 - a. The ToR will outline the following:
 - i. What the study is about, the duration of the study, and the level of commitment expected from the AG members
 - ii. What role the AG members will play in the study
 - 1. Provide advice and guidance to the implementation strategies
 - 2. Establish key definitions and scope of the project
 - 3. Address barriers and challenges
 - 4. Methodology of data collection tools
 - 5. Recruitment of participants
 - 6. Reporting and knowledge translation of results
 - iii. How many times the AG members will meet or communicate
 - 1. Communication through email, tele-conference or in-person meetings

- 3. Conduct AG meetings
 - a. Project team to establish the number of times to conduct AG meetings (example: biweekly meetings from the start to the end of the study implementation)
- 4. Reporting back to the AG members (example: determine who will take meeting minutes and when the meeting minutes will be distributed)

The advisory group members were instrumental in assisting the project team define Severe Asthma and review questions included in the qualitative and quantitative questionnaires and facilitators guide. It is important to note that during the Severe Asthma Study there were no individuals with lived experience on the advisory group and therefore it was felt that having the voice of the patients on the advisory group would have brought more insight into the study components. Furthermore, during the Severe Asthma Study a reporting back to the AG members was not conducted and the project team felt that this process is important because it allows the project team and AG members to look back on previous meeting notes to see what action items were discussed and what might still be outstanding.

Step 5: Define the Health Condition

When defining the health condition the literature review of key indictors to determine the level of control should be reviewed and identified and discussed between the project team and advisory group members. In case of the Severe Asthma Study, Severe Asthma was defined in order to develop the screening questionnaire. The indicators used to determine the level of control were based on a variety of indices of asthma control such as those listed by the Global Initiative for Asthma (GINA) and the Canadian Asthma Consensus Guidelines definition and reviewed by a team of expert advisors on the advisory group.

Step 6: Obtain Ethics Approval

Obtaining ethics approval is an integral part of research studies. The decision to obtain ethics approval should be determined early in the planning phase of the study, in particular determining the intent of submission to a journal. During the Severe Asthma Study, at first the decision was made not to publish the study and therefore ethics approval was not obtained until later in the planning phase. This decision changed when it was realized that working with participants who are providing confidential information on sensitive issues and topics would need to be protected and provided with enough details to make informed, autonomous decisions.

Step 7: Recruitment of Participants

Recruiting participants to take part in the study should involve a multi-pronged approach as follows:

- 1. Identify region, area, local community of interest (local community, city, province, country-wide)
- 2. Establish a screening process (Appendix C)
 - a. Define the health condition (for example Severe Asthma)
 - b. Outline eligibility and non-eligibility criteria
 - c. Develop an online screener or eligibility questionnaire
- 3. Identify key organizations, networks, health clinics and relevant healthcare centres accessed by the patient population group of interest
- 4. Develop key promotional materials such as a promotional flyer (*Appendix D*), website and twitter alerts (*Appendix E*), (*Appendix F*), and telephone (*Appendix G*) and email (*Appendix H*) communications to asthma clinics
- 5. Distribute promotional materials to key target audiences, organizations, networks, health clinics, healthcare centres via email and/or posting promotional materials through various social media platforms and/or at various locations within the community, city, or region health clinics
- 6. Develop a consent form for participants to complete prior to participating in any in-person interviews. The consent from should include information on: 1. Potential harm, risks, or discomforts, 2. Potential benefits, 3. Confidentiality, 4. Participation (voluntary), 5. Information on how the data will be recorded, and how long the data will be kept by the agency and when it will be destroyed (*Appendix I*)

During the Severe Asthma Study, the participant recruitment involved a multi-pronged approach involving direct outreach to members of the National Asthma Patient Alliance, the Severe Asthma Network as well as promotion through local asthma clinics and relevant healthcare centres. Project staff created promotional flyers which were distributed through clinics/health centres in target cities and via email to relevant contacts with the goal of reaching as many potential participants as possible in the target cities. All interested participants were directed to the Eligibility Questionnaire (available in English and French). All potential participants were evaluated through a strict screening process and only qualifying applicants were contacted for the interview phase. All participants were given the option of anonymity or to withdrawal as part of the online screening structure and provided with an additional consent form.

Step 8: Qualitative Study

- Develop interview questions with the AG members and project team by reviewing key assessment and test questionnaires for the health condition being studied
- Project lead to develop an interview facilitator guide (*Appendix J*) and oath of confidentiality signed by the moderator/facilitator conducting the interview (*Appendix K*)
- Project lead to establish interview dates/times/venue
- Project lead to invite participants who have completed the online screener to in-person interviews based on participants mode of contact provided
- The day of the in-person interview the facilitator will:
 - o Ask participants to complete a consent form (Appendix I)
 - o Inform participants and obtain permission to video tape the interview
 - o Conduct the interview (Appendix J)

The key objective of this study was to focus on the patients' personal journey with Severe Asthma. By taking a look at their quality of life, expectations, medication preferences and experience with primary care professionals' knowledge of their health condition, as well as experience with the healthcare system and access to diagnostics, treatment and medications. In order to assess their level of control, the questions included were determined from the following: the American Thoracic Society (ATS) such as the Asthma Control Test (ACT) the Childhood Asthma Control Test (C-ACT), the Asthma Control Scoring System (ACSS), the Juniper Asthma Control Questionnaire (ACQ), the Asthma Therapy Assessment Questionnaire (ATQQ), the 30-Second Asthma Test, and the Asthma Quiz for Kids.

- Key questions asked to assess the level of control included the following:
 - o Prevalence of asthma attack(s) in the last 12 months
 - o Hospital visits and admissions
 - o Limitations to physical activity
 - o Absenteeism at school or work
 - o Sleep disturbances
 - o Daytime symptoms
 - o Wheezing attacks
 - o Speech-limiting attacks
 - o Frequency of use of quick relief medications
 - o Lung function
- Other factors surveyed included the following:
 - o Adherence to Asthma Management Plans
 - o Preference for media (print, online, app) for Asthma Management Plans, asthma diaries
 - o Confidence in medical practitioners' knowledge and experience with asthma
 - o Preference regarding healthcare providers and asthma treatment (respirologists, allergists, family physicians, pharmacists, nurses, Certified Asthma Educators, nurse practitioners, respiratory technicians)
 - o Asthma control expectations
 - o Access to medications/burden of illness regarding both public and private benefit plans
 - o Cost of medications and hardware such as spacers and peak flow meters
 - o Asthma experience in the workplace as well as the home or other environments
 - o Stigma, stress and isolation experienced by people with asthma
 - o Regional differences

Overall, the interviews were a great success as all participants were highly engaged and open to speaking about their journey with Severe Asthma. During the interview the facilitator drew the journey timeline on a flip board chart paper and the participants could see their life journey with Severe Asthma captured right in front of them. The interviews were initially scheduled to take approximately 30 minutes, however nearly all interviews went over the allocated time, closer to 60 to 90 minutes. Therefore, it is important to note that going through someone's life journey with any health condition will take longer than 30 minutes to cover. It is important to allocate additional time in the in-person interview process.

Step 9: Two Quantitative Studies

- 1. Targeting a small population group n=150 (in-house):
 - a. Online survey hosted by the agency implementing the study (Appendix L)
- 2. Targeting a large Population Group n=800 (external): [Planned but not executed]
 - a. Online survey conducted through a national public opinion research firm where participants will be recruited representing the target population of Canadian patient(s) of interest

The survey questions should be similar to the qualitative interview questions. During the Severe Asthma Study the questions determined for the online survey were based on the discussion areas of the in-person interviews, which were expanded to include more specific details. The main reason for conducting the quantitative study was to get broader reach of participants who were not captured in the in-person interviews, including participants across Canada not specific to the key provinces studied during the qualitative study. The second quantitative study targeting the larger population group was not conducted by the Asthma Society of Canada. This quantitative study was mentioned in the study protocol to conduct a larger study by a national public opinion research firm. However, the online survey targeting a larger external population group was not conducted because of the limited time and resources allocated to the study.

Step 10: Analysis and Report Writing

- 1. Identify an analyst to conduct qualitative and quantitative analysis using NVivo and SPSS software
- 2. Project team to write the final report with AG member input and review

Step 11: Dissemination of Results

Develop a dissemination plan and key communications strategy for internal and external partners and stakeholders:

- 1. Target key policy makers, bureaucrats at different levels of the government as well as health care professionals and health care informants
- 2. Hire a public relations firm to develop supporting materials to be distributed alongside the final results of the study, including press releases, website content, matte stories/editorials as well as direct engagement of key health journalists and publications

Step 12: Call to Action

- 1. Based on the results of the study engage with key elected officials, including Federal and Provincial/Territorial Ministers of Health, Opposition Health Critics, and Health Committee members along with relevant bureaucrats
- 2. Develop materials to support these lobbying efforts calling on government(s) to address the pertinent issues in the health field revealed in the study results

Key Challenges and Lessons Learned from the Study

The Severe Asthma Study was modelled after international studies, and it was the first study undertaken in recent years targeting Canadians living with Severe Asthma. The project team faced key challenges and learned a few lessons during the planning and implementation phases.

A. Developing the Definition of Severe Asthma

In developing the online screening questionnaire, the Advisory Group engaged in an active debate over the definition of Severe Asthma, either to use GINA guidelines or the Canadian Asthma Consensus Guidelines. The GINA definition of Severe Asthma relies on evaluation of the inherent symptoms of the disease and the patient's lung function before instigating any treatment relative to the assessment of its severity. However, the Canadian Asthma Consensus Guidelines assess asthma severity once the treatment has been instigated and use a combination of factors, many of which overlap with measures of symptom control. The final decision made by the expert advisors was to adopt the Canadian Asthma Consensus Guidelines definition.

B. Participant Recruitment

Patient recruitment for both the interviews and online survey proved far more time consuming and challenging than anticipated. The exact reasons were difficult to determine, but it might have been because many individuals who have been diagnosed with Severe Asthma may not necessarily view themselves as having Severe Asthma (either they were not told by their primary care physicians despite fitting the definition of Severe Asthma or their Severe Asthma was controlled). Many of the clinics were willing to display posters promoting the study, but were not willing to actively recruit through their patient list and thus limiting the potential reach. Furthermore, due to the short timelines it was also difficult to recruit and conduct in-person interviews. However, that was also the reason why the online quantitative survey was conducted in order to reach individuals who might not have qualified for the in-person interviews or were not from the provinces that the in-person interviews were conducted in.

C. Ethics Approval

Ethics approval and Research Ethics Board (REB) decisions should be made during the planning phase of the study. In the Severe Asthma Study ethics approval was not obtained until later in the planning phase prior to implementation this led to delays in being able to recruit participants and conduct in-person interviews because the study documents needed to be approved by the ethics board prior to conducting any in-person interviews.

D. Literature Search

At the end of the study, additional time and resources were allocated to expand the grey literature study to ensure a comprehensive picture was captured through the literature and to inform the key recommendations. This was done due to the lack of data available in the literature and therefore, additional time was needed to review relevant literature.

E. Time and Resources

The research lead for the Severe Asthma Study was hired to conduct the study in three months. This was not sufficient time to complete a comprehensive study. Therefore if more time and resources had been allocated to the study there would have been more time added to recruiting and interviewing participants. It is important to note that during the planning phase it is important to factor in additional time and resources to conduct the literature review and in recruiting participants.

Recommendations from the Study

Key recommendations and insights were summarized for health care professionals, pharmaceutical companies, patients, and government officials, including system level changes in order to improve the quality of healthcare Severe Asthma patients' receive across Canada.

A. Global Health Organizations

Global professional organizations and international experts should produce guidelines, reports and other resources about Severe Asthma, which includes a consistent, clear, easy-to-understand definition of Severe Asthma that healthcare professionals and patients can understand and apply. The guidelines should incorporate evidence-based research to help improve asthma management and the lives of individuals living with severe and uncontrolled asthma across the globe and be rolled out to all physicians, including specialists in asthma and allergy through their respective governing bodies and/or colleges.

B. Non-for-profit Organizations

Non-for-profit organizations should bring forth the patients' perspectives into asthma management care and support programs and develop innovative tools and resources that their community would be able to access and use such as an electronic Asthma Management Action Plan. They may also consider providing those with Severe Asthma opportunities to join peer networking and support programs.

C. Health Care Professionals

Health care professionals such as physicians and specialists must be provided with and follow the standard guidelines with regards to testing and treatment of severe and uncontrolled asthma. There should be a clear consensus on what Severe Asthma is across all primary care physicians and asthma and allergy specialists. This is one way to ensure that all patients with Severe Asthma are receiving the same care. Furthermore, it is essential that healthcare professionals improve communication and information sharing between the patients and other specialists to provide consistent, high quality healthcare services. Patients should be provided with information on referrals sent to specialists and any results on the tests conducted, the Asthma Management Action Plans should be used and discussed with each patient, and patients should be involved in the decision-making process for treatment. It is also essential that information transferred from childhood to adulthood asthma healthcare services is a clear and smooth process for Severe Asthma patients.

D. Patients/Individuals with lived experience

Patients need to understand their rights and responsibilities and learn when to recognize that their asthma is not controlled. Furthermore, the compliance level of patients is important and this should be communicated by primary care physicians in order for the treatment to be altered to a regimen that can allow for better compliance. In this study, most patients were between 40 - 80 and for some, the initial diagnosis was missed by physicians, not everyone was diagnosed with asthma at childhood, but might have had symptoms of asthma at that time, and for others, it had not been a concern by parents to address this at a young age. Therefore, more education on what asthma is, how to diagnose it, treat it, and control it is needed.

E. Pharmaceutical Companies

Pharmaceutical companies need to conduct more research in developing new targeted medications and treatments as there is no one medication that works for all patients. Furthermore, it is important that pharmaceutical companies increase awareness about new options available to specialists and family physicians regarding the treatment of Severe Asthma. Many health care professionals are not up to date on treatment options and thus, are not providing this information to those with SA.

F. Government and Policy Officials

Government and policy officials should work towards developing policies around how to improve cross-sector access and transfer of medical records to ensure consistency of care for patients throughout their healthcare system experience. Government officials also need to increase funding for research and address the gaps in drug coverage to ensure all people with asthma can manage their disease, resulting in the best possible health outcomes.

Why Should Global Organizations Invest Money and Resources in a Project Similar to the Severe Asthma Study?

This study focuses on capturing the patients' voice throughout their life course and how asthma has impacted their experiences and daily activities from childhood to adulthood. There are very few studies that have been conducted which capture the patients' voice on Severe Asthma. This study was the first step to understanding what patients experience and feel every single day, and what the Canadian healthcare system provides in terms of appropriate asthma management and treatment. This study has also proved to be very beneficial in advocating for those patients who cannot advocate for themselves, or whose voices are not heard. It has further provided an opportunity to understand the gaps in the Canadian healthcare system with regards to chronic disease. For the Asthma Society of Canada it has helped shape our programs and services and changed the conversation within our community about Severe Asthma.

For more information, Severe Asthma: The Canadian Patient Journey is available at www.asthma.ca.

Examples of Materials and Resources Developed for the Severe Asthma Study

A. Advisory Group Invitation Letter

Insert Organization Logo

Dear XXX,

The Asthma Society of Canada (ASC) is currently undertaking a patient research project entitled: Asthma Matters: A Study of Adult Canadians Living with Severe Asthma. The project will be conducted by the ASC in collaboration with patient groups from the National Asthma Patient Alliance (NAPA), the Canadian Severe Asthma Network, as well as patients from asthma clinics across Canada.

We would like you to consider being part of the Project Advisory Group for Asthma Matters.

The main purpose of this project is to conduct a comprehensive study involving qualitative and quantitative approaches, which will provide an up-to-date understanding of severe and/or uncontrolled asthma in Canada looking at the prevalence, burden and needs and expectations of patients with asthma further asking questions on motivation, or lack thereof, for compliance and adherence to asthma management plans. The proposed initiative is also the first step towards establishing national and provincial/territorial perspectives on the social and economic impact of severe asthma in Canada that can be used by the governments and policy makers in Canada to address asthma.

We are looking for your assistance and participation as a member of our Project Advisory Group. The Project Advisory Group Members will assist by:

- Defining definitions and with the scope of the project
- Addressing barriers and challenges
- Review of methodology including data collection tools and strategies
- Recruitment of participants
- Reporting and knowledge translation of results

Please find enclosed the "Project Protocol" for more detailed information on the project.

Thank- you for your attention to this request.

We look forward to your involvement in this project.

Sincerely,

Insert Organization Logo

Advisory Group Terms of Reference

"Asthma Matters: A Study of Adult Canadians Living with Severe Asthma"

July 2013

Project Purpose

The ASC is undertaking a comprehensive study of severe asthma utilizing three survey approaches: 1. Qualitative survey (n=36); 2. Small quantitative survey (in house, n=150) and 3. Larger quantitative survey (n=800, if additional funding becomes available). The surveys will provide an up-to-date understanding of severe asthma in Canada looking at the prevalence, burden and needs and expectations of patients with asthma further asking questions on motivation, or lack thereof, for compliance and adherence to asthma management plans. The proposed initiative is also the first step towards establishing national and provincial/territorial perspectives on the social and economic impact of severe asthma in Canada that can be used by the governments and policy makers in Canada to address asthma.

Project Objectives

The main objectives of the proposed study include the following:

- To undertake a qualitative and quantitative study involving Canadian adults with severe asthma to ensure the patient voice and experience of living with asthma is analyzed and then disseminated thus being heard by policy makers and key opinion leaders in Canada;
- To further educate the Canadian public in the personal, social and economic cost of severe asthma in Canada;
- To prepare for a Call to Action for governments in Canada to implement provincial, territorial and national asthma strategies;
- To provide evidence for the pursuit, development and access to innovative and better therapeutic treatments by the pharmaceutical and medical device industries to alleviate the suffering of people with severe asthma;
- To add to the understanding of all ASC stakeholders regarding the severity and the burden of illness faced by people with asthma in Canada;
- To provide the foundation for future longitudinal comprehensive quantitative studies by identifying key issues and areas of concern, from the patient perspective, of the treatment and management of severe and uncontrolled asthma in Canada.

Project Team

Membership

Scope of Responsibility/Activities

The advisory committee will provide expert advice and guidance on the project implementation strategies including:

- Definitions and scope of project
- Addressing barriers and challenges
- Methodology including data collection tools and strategies
- Recruitment of participants
- Reporting and knowledge translation of results

Time Commitment

The Advisory Group members are expected to be available for a conference call every two weeks (duration of the call: one hour). The study will need to be completed by (Date for completion).

Insert Organization Logo

Eligibility Questionnaire (Online Screener)				
eligibil	The Asthma Society of Canada (ASC) is conducting a study of Adult Canadians living with severe asthma. This short eligibility questionnaire is being conducted to see if you qualify to participate in a brief, 30 minute interview. Participants who qualify and complete the interview will be compensated.			
1.	What language are you most comfortab ☐ English	ole speaking? (Please check only one)	□ Other – Terminate	
2.	 Are you or is any member of your family employed by or in any way affiliated with? (Please check all that apply) □ An ad agency/public relations firm/marking research firm □ Any government agencies involved with food, drug, environmental or trade regulation □ A manufacturer/retailer or wholesale distributor of pharmaceuticals □ None of the above Terminate if check any one of the above 			
3.	How many years have you been living in ☐ Less than 5 years — Terminate	n Canada?		
4.	In which age group may I place you? ☐ Younger than 18 — Terminate	☐ Between 18 and 80 years old	□ Older than 80 - Terminate	
5.	Have you ever been told by a health car ☐ Yes	re professional that you have asthma? □ No – Terminate		
6.	6. Has the healthcare professional who treats you for your asthma, ever referred you to the following, a pulmonary function lab for a breathing test (spirometry)? □ Yes □ No		ou to the following, a pulmonary	
7.	Are you currently prescribed medication ☐ Yes	n for your asthma? □ No – Terminate		
8.	 □ Budesonide (Pulmicort®) □ Prednisolone (PediaPred®) □ Formoterol (Foradil®, Oxeze®) □ Pulmicort® □ TheoDur® □ TheoLair® 	ou are taking for your asthma? (Please change in the properties of	 □ Prednisone □ Salmeterol (Serevent®) □ Advair® □ Montelukast (Singulair®) □ Phyllocontin® 	

	In the past 2-4 weeks, on how many da		toms (coughing, wheezing, chest
	tightness, shortness of breath) because Less than 2 days/week - Terminate	·	☐ Multiple times per day
10.	In the past 2-4 weeks, have you had an your asthma?	y limitations to activities such as exe	rcise or daily activities because of
	□ None – Terminate	☐ Some Limitation	☐ Extremely limited
11. In the past 2-4 weeks, how often did you wake up at night or early morning because of your as (wheezing, persistent cough, shortness of breath or tightness of the chest)?			
	□ None – Terminate	☐ Less than 2 nights/week	☐ More than 2 nights/week
12.	In the past 2-4 weeks, how often have asthma?	you used your reliever or your rescue	e medication because of your
	☐ Less than 2 days/week — Terminate	☐ More than 2 days/week	☐ Several times a day
13.	How often have you used or required a ☐ Never – Terminate ☐ One a month	n oral or systemic corticosteroid bec ☐ Once or more per year ☐ Once a week	ause of your asthma exacerbations?
14.	Are you comfortable in participating in a live interview and talking about your experiences with asthma, its treatments and the overall affect it has had on your life with an interviewer? □ Yes □ No - Terminate		
15.	What is your highest educational level a ☐ Elementary School - Terminate ☐ University Degree	achieved? □ High school diploma □ Post-Graduate Degree	□ College Degree
16.	Which of the following best describes y	our current employment status?	
	□ Employed full-time	☐ Employed part-time	□ Retired
	☐ Unemployed☐ Student	□ Not working due to disability	☐ Stay at home parent
17.	Have you ever participated in a focus group, individual interview, or any market research study? ☐ Yes — Continue to questions 18 - 20 ☐ No — Skip questions 18 - 20		
18.	How many times have you participated ☐ Once	in market research? □ Twice	☐ 3 plus – Terminate
19.	When did you last participate in this typ ☐ Less than 3 months ago — Terminate	•	
20.	If more than 3 months ago what was/were the topic or topics of discussion? (Please write your response in the space provided)		
21.	Please specify which Province or Territo	pry you reside in:	
	□ Alberta	□ Manitoba	☐ Newfoundland and Labrador
	☐ Nova Scotia	□ Ontario	□ Quebec

	☐ British Columbia	□ New Brunswick	☐ Prince Edward Island
	☐ Saskatchewan☐ Yukon	□ Northwest Territories	□ Nunavut
	- Tukon		
22.	Do you live in the greater Montreal, To		
	□ Yes	□ No - Terminate	
Thank study! oppor	ralification message: you for your interest in this study, howe However, we often conduct market rese tunities. If you are interested potentially ss below.	earch studies and would like to keep	your email address on file for future
Conta	act Information:		
The As	fication message: sthma Society of Canada (ASC) is conduct evere asthma. The ASC would like to hea ealthcare system.	-	
or wit begini	The interview will take approximately 30minutes to complete and you have the choice of not answering any questions or withdrawing at any time. The interview will be videotaped and you will be asked to complete a consent form at the beginning of the interview. Participants will receive a reimbursement (value of \$50) each for their participation in the interview.		
Confi	dentiality:		
	☐ During the interview the ASC will be recordings.	recording the interview. The recordi	ngs will include video and audio
	☐ There will be no names attached to information or names used in any w	<u> </u>	here will be no identifying
	☐ The video and audio recordings obta or used for any other purpose excep		ot anonymous and will not be revealed
	☐ Confidentiality regarding the inform be shared or presented in any way the	ation that you provide will be assure hat would identify you as the source.	· · · · · · · · · · · · · · · · · · ·
After	reading the information above are you st	ill interested in participating in this s	tudy?
	□ Yes	□ No – Terminate	
	If Yes,		
	you very much for agreeing to help us wor the interview please email at: (insert e		•
	Or		
	e provide your name, phone number and will be in contact within 2 business days	•	

Do You Have Asthma?

The Asthma Society of Canada is conducting a study of Adult Canadians Living with Severe Asthma

Who are we looking for?

Canadian Adults between the age of 18 and 80 living with severe asthma

Tell Us Your Story

We would like to hear from you about your experiences about your journey with asthma, your treatment preferences, and your experience with healthcare priorities and the healthcare system. You will be asked to complete a short eligibility questionnaire to see if you qualify to participate in a brief 30 minute live interview. Individuals who qualify and complete the interview will receive a compensation of \$50.

Please complete this short eligibility questionnaire to see if you can be part of this study

Comprehensive Study of Adult Canadians with Severe and/or Uncontrolled Asthma

Étude globale des Canadiens adultes souffrant d'asthme aigu ou non

Do you have Asthma?

The Asthma Society of Canada (ASC) is conducting a study to learn more about adult Canadians, aged 18 and over, living with severe and/or uncontrolled asthma. During the first phase of this study the ASC would like to hear from you about your experiences, your journey with asthma, your treatment preferences and your experience with health care professionals and the healthcare system.

You will be asked to complete a short eligibility questionnaire to see if you qualify to participate in a brief 30 minute individual interview.

Individuals who qualify and complete the interview will receive compensation of \$50. Please complete this short questionnaire to see if you qualify to be part of this study: www. asthma.ca/study2013

Following the completion of the initial phase of this study, the ASC will conduct an online survey of adult Canadians with severe and/or uncontrolled asthma.

Êtes-vous asthmatique?

La Société canadienne de l'asthme (SCA) mène une étude auprès d'adultes canadiens souffrant d'asthme aigu ou non maîtrisé. En premier lieu, la SCA souhaite savoir comment vous vivez avec l'asthme, quels traitements vous préférez et comment vous composez avec les professionnels de la santé et le système de soins de santé en général.

On vous demandera d'abord de répondre à un court questionnaire servant à déterminer si vous êtes admissible à une brève entrevue de 30 minutes.

Les personnes retenues qui se soumettent à l'entrevue recevront une indemnité de 50 \$. Si vous souhaitez participer à l'étude, veuillez répondre au questionnaire d'admissibilité en cliquant sur le lien suivant: www.asthma.ca/etude2013

Une fois la première étape de l'étude terminée, la SCA procédera à un sondage en ligne auprès de Canadiens adultes souffrant d'asthme aigu ou non maîtrisé.

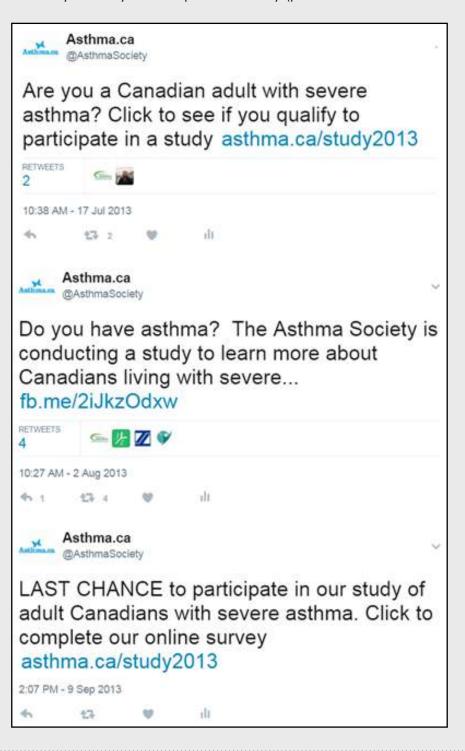
Asthma Society of Canada - 124 Merton Street - Suite 401 - Toronto - Ontario - M4S 2Z2 (T) 416-787-4050 (F) 416-787-5807 (E) info@asthma.ca Charitable Registration No. 89853 7048 RR0001

F. National Asthma Patient Alliance and Twitter Alert

NAPA Alert/Twitter Alert:

The Asthma Society of Canada (ASC) is conducting a study to learn more about adult Canadians, aged 18 and over, living with severe and/or uncontrolled asthma. The ASC would like to hear your experiences about your journey with asthma, your treatment preferences and your experience with health care professionals and the healthcare system. You will be asked to complete a short survey to see if you qualify to participate in a brief 30 minute interview. You will be compensated for your time.

Please complete the short survey to see if you can be part of this study: (provide link to online screener questionnaire)



G. Telephone Script

Asthma clinics via phone and email
Hi my name is I am calling from the Asthma Society of Canada we are conducting a study to learn more about Adult Canadians 18 and over living with severe and/or uncontrolled asthma. We are asking individuals to complete a short online survey to see if they qualify to participate in a brief 30 minute interview. Individuals who qualify and complete the interview will be compensated \$50. We will be mailing out few copies of a promotional flyer with all the information about the study and was also wondering if we could email it to you as well. (Ask for email address)
H. Email Script
Hi, my name is (name of research lead), I am working as a research investigator at the Asthma Society of Canada (ASC). The ASC is conducting a comprehensive study entitled: "Asthma Matters: A Study of Adult Canadians Living with Severe Asthma", targeting adult Canadians, aged 18 and over, living with severe asthma. This current study will provide an up-to-date understanding of severe asthma in Canada looking at the prevalence, burden, and needs and expectations of patients with asthma further asking questions on motivation, or lack thereof, for compliance and adherence to asthma management plans.
We have developed and launched a short eligibility questionnaire to see which individuals qualify to participate in a brief, 30 minute interview. Participants who qualify and complete the interview will be compensated.
I have attached the following documents to this email: "Project Outline" for more details on the project and a "Promotional Flyer" to be placed up in the clinic or office for participants to see. Please note that the Promotional Flyer does have tear offs at the bottom of the flyer. We will also be mailing out the above documents to your location.
If you have any questions or concerns, please do not hesitate to contact the Project Manager (name of Project Manager) and contact information (email and/or phone number).
Thank you for your time.

Insert Organization Logo

"Asthma Matters: A Study of Adult Canadians Living with Severe Asthma"

Letter of Information

- The Asthma Society of Canada (ASC) has a special interest in helping adults and children with asthma.
- You are being asked to participate voluntarily in the completion of an individual interview for the project entitled "Asthma Matters: A Study of Adult Canadians Living with Severe Asthma."

Purpose of the project

- The aim of the individual interview is to gain a better understanding about your personal experiences, your journey with severe asthma and your needs and priorities in asthma management.
- What we learn from the individual interviews will help the ASC provide an up-to-date understanding of severe asthma in Canada and be the first step towards establishing national and provincial/territorial perspectives on the social and economic impact of severe asthma in Canada that can be used by the governments and policy makers in Canada to address asthma.

Procedures involved in the project

- You will be asked to participate in an individual interview where the ASC will ask you to provide your voice and experiences on your journey with severe asthma.
- The individual interview will be held in a meeting room in a central location in your region for approximately half an-hour duration.
- The interviews will be audio or video recorded in order to accurately capture what is said. The recordings will be transcribed, but your name will not be included in the transcriptions. The recording and transcription will be kept on a password-protected computer. Reports of study findings will not include any identifying information.
- Participants will be asked for express consent before any pictures, names and/or quotes are used in the public materials.

Potential Harms, Risks or Discomforts:

There is the remote chance that discussing your personal journey about living with severe asthma may be
emotional, difficult, frustrating or upsetting in an individual interview. We believe that the risk of emotional
upset is no greater than in everyday life.

Potential Benefits:

- There are several possible benefits to individuals participating in the project as well as individuals with similar conditions who might also benefit from the results from this project.
- The benefits include having ASC resources and National Asthma Patient Alliance (NAPA) programs available to
 patients to educate asthma patients on the importance of proper asthma control and to raise public awareness
 about the burden of severe asthma.

Confidentiality:

 During the interview the ASC will be recording the interview. The recordings will include audio or video recordings.

- Participant confidentiality (privacy) will be respected and no information that directly identifies the participant will be given out or published unless required by law.
- Confidentiality (privacy) will be ensured by the use of pseudonyms (made up names). Data (transcripts) will be coded and stored in a secure location in the office of the project staff. The recordings will include audio or video recordings and no names will be attached to the recordings. There will be no identifying information or names used in any written reports. The recordings will be downloaded in an MP3 folder and saved on a secure drive on a password-protected computer of the project staff directly involved.
- Confidentiality regarding the information that you provide will be assured by the ASC and your name will not be shared or presented in any way that would identify you as the source.
- Any potential identifying information such as pictures, quotes and names used will only be drawn from the pool of individuals who have expressly given consent.
- All data related to this project will be for the sole use of the Asthma Society of Canada and will be retained only as long as necessary for the completion of this project.
- Participants may withdraw from this study at any time and only information gathered prior to the withdrawal will be used for the purposes of the study.

Payment or Reimbursement

• Participants participating in the individual interviews will receive a reimbursement in the form of a cheque for \$50. This cheque will be mailed to you a week after the completion of the interview.

Participation:

Your participation in the interview is completely voluntary. It is your choice to be part of the study or not. There will be no negative consequences if you decide not to take part, stop part way through the study or decide to skip questions. If you choose to withdraw, your compensation will be fully provided.

This study has been reviewed by (Name of Ethics Board), which is not affiliated with the research or research team, if you have any questions about your role and rights as a research participant, or have concerns, complaints or general questions about the research, please contact:

(Insert contact information for Ethics Board)

Contact for more information:

If you have any questions or concerns about the interview and how it is being used, please free to contact the Research Lead (insert name) by email: (insert email) or telephone number: (insert phone number)

Statement of Consent
I have read the above information and have received answers to all my questions. I am 18 years and older.
I voluntarily consent to take part in this research study and to have this interview: □ Video recorded □ Audio recorded only
I voluntarily consent to the following: ☐ I agree to be quoted and to be identified by name in report publications ☐ I agree to be quoted but all personally identifying information shall be removed or altered and contents of the quote shall not be revelatory of my identity ☐ I do not wish to be quoted ☐ I do provide my permission to share personal images in the report publications

Participant's Name (Printed):	
Participant's Signature: Date:	
Please provide personal contact information: (will be used only for the purpose of sending participation in the individual interview)	out a payment for your
Name (First): (Last):	
Address (Street Name):	
(City): (Province):	(Postal Code):
(Phone Number: <i>optional</i>): ()	
(Email Address: optional):	

J. Facilitator Guide for In-Person Interview

Insert Organization Logo

Asthma Matters: A Study of Adult Canadians Living with Severe Asthma Interview Discussion Guide August 1st, 2013

Project Overview

Objectives of the Project

The goal of the proposed study is to gain a better understanding about the experiences of Canadian adults affected by severe asthma and their needs and priorities in asthma management.

The first objective of the proposed study is to undertake a qualitative study involving Canadians with severe asthma, mapping out their journey with asthma, to ultimately ensure that the patient voice and patient experience is heard by:

- The Canadian public to educate them on the personal, social and economic cost of severe asthma in Canada;
- Public policy makers through a call to action to governments in Canada to create provincial, territorial and national asthma strategies and meet the needs of Canadians with severe asthma;
- The pharmaceutical and medical device industries to promote innovation and better therapeutic treatments to provide greater options and alleviate the suffering of people with severe asthma;
- Health care professionals to draw attention to patient needs, desires and priorities;
- Canadian asthma researchers to focus research efforts on stated patient concerns;
- ASC stakeholders, funders and partners to focus attention on the severity and the burden of illness faced by people with severe asthma in Canada.

The second objective is to provide the foundation for a quantitative study to verify the qualitative study, assess regional and demographic differences, and identify further key issues and areas of concern, from the patient perspective, regarding the treatment and management of severe asthma in the Canadian Healthcare system.

Design of the Project

This project has been designed to gain insight from adult Canadians, 18 years and older, living with severe controlled or uncontrolled asthma. The first phase consists of a series of 30-minute, one on one journey mapping interviews to be held in Toronto, Hamilton, Montreal and Edmonton with a maximum of 36 interviews (12 interviews from each of provincial centre). Some interviews may be conducted by telephone with on-line assistance and may last for 45 minutes. The second phase will include a quantitative survey to verify results and establish regional or demographic differences.

Session Details

Objectives of the Interview Session

- 1. To hear the patient's journey with severe asthma;
- 2. To record the impact of the chronic disease state on the patient's quality of life;
- 3. To explore patient's compliance with medication regimes, asthma management plan, and knowledge of treatment options and usage;
- 4. To explore the doctor-patient relationship and how involved the patient is in decisions about their own asthma care and treatment;
- 5. To understand the barriers and challenges patients experience in obtaining information and accessing the healthcare system for asthma.

Interview Schedule

City	Facility	Date/Session Time

Introduction and Preparatory Homework

Objectives of the Project

Introduce the participant to the session objectives and details. Also, gain insight into the participant's emotions and how they feel about their asthma.

Targeted Insights

- Understand how the patient feels about their asthma
- Understand how this feeling impacts their quality
- Identify how they would feel if they did not have asthma

Exercize Details: Time Allocation: 5 minutes

Tools: Participants will have been asked to bring one picture (clipped from a magazine, from the Internet or other source) that portrays how they felt when they first found out through diagnosis that they had severe asthma. Additionally, the Moderator will have photos to supplement and to offer for other touch points in the life map with asthma. These will be available electronically for telephone interviews.

Moderator Guide

The moderator will explain the objective of the exercise. The start of the asthma journey, explained by the participant, will be captured on the brown paper and the moderator will probe selected key phases to gain the required insights.

Step 1: Introduction

1. Session Objective:

To gain a better understanding about the patient's ex- 2. Outline Logistics: perience through their voicing a personal description of their journey with severe asthma and how they are affected by severe asthma and their needs and priorities in asthma management.

- Collect Consent Forms (given at the beginning of their interview);
- Confidentiality principles outlined;
- Taping of the session: The interview will be video/audio recorded (unless participant agrees only to audio taping as indicated in the completed consent form). Taping will be done to ensure accuracy and reduce the chance of misinterpreting the conversation;
- Duration of Session (30 minutes).

Step 2: Preparatory Homework Review

Exercise:

Moderator will ask the participant to show their picture (or choose one) and share one word that describes how they felt when they first found out that they had severe asthma.

Probe Questions:

- Why this particular picture?
- How does this picture express what you felt when you were diagnosed?

Journey Mapping

Exercise objective

To understand the participant's journey of living with severe asthma. Identify the steps taken along the journey since diagnosis and the participant's various experiences through their personal description of their journey with severe asthma. This will include the impact of severe asthma on the quality of their life, current treatment and their compliance of medication, doctor-patient relationship and the barriers/ challenges to care encountered along their journey.

Exercise Details: Time allocated: 25 minutes

Tools: Brown paper to capture the journey, coloured markers

Targeted Insights

Identify:

- 1. When was the patient first diagnosed with asthma? When were they told they had severe asthma? How long did diagnosis take?
- 2. Who diagnosed them? What tests were done? Have they ever had access to a certified asthma/ respiratory educator?
- How has their asthma impacted the quality of their life – family life, working life, recreational life?
- 4. How compliant are they with their medication? Do they have a written Asthma Management Plan? How closely do they follow it?
- 5. How often do they have asthma attacks? How many times have they been hospitalized?
- 6. What is their relationship with health-care professionals like? Who is the most helpful?
- 7. What do they perceive the barriers/challenges they face in managing their asthma?

Exercise Description

The moderator will explain the objective of the exercise. Particular focus should be on the key objectives outlined and identify the targeted insights. The journey explained by the participant will be captured on the brown paper and the moderator will probe into each key phase to gain the required insights.

Moderator Guide

Exercise: participants will be asked to describe their journey with severe asthma from the 1st time they were diagnosed. The moderator will capture key steps along the journey and use the key objectives and probing questions below to capture the targeted insights

- 1. Moderator will introduce exercise.
- 2. Participant will describe their journey and identify key incidents, steps, changes experienced.

Key Objectives	Probing Questions
Asthma History	 At what age were you first diagnosed with asthma? When were you told you have severe asthma? Who diagnosed you? When was your last asthma attack/incident/exacerbation? Last hospital stay because of your asthma? Last medical doctor appointment? Who is your primary source of care: family doctor, specialist (what type), hospital, community clinic, Asthma Educator, pharmacist? Your secondary source of care?
Impact on their Quality of Life	 Can you describe your quality of life? Is there a picture or image here that helps you describe it? How has your asthma impacted your family life, social life, work life, financial life, etc.? Do you consider your asthma controlled or uncontrolled? Thinking about life right now, how does having severe asthma affect your life style? Are there things that you can no longer do/are restricted in doing because of asthma? How do you feel about this? Has having asthma impacted relationships and, if so, how?

Key Objectives Probing Questions	
Current Treatment/ Medication Compliance	 What is your primary information source about treatments for severe asthma? How satisfied are you with your current medications or therapies? What tests have you had done lately regarding your asthma? What impact does the medicine you take have on your asthma symptoms i.e., complete or only partial relief/control? How do you feel about this? Are you taking your medication as prescribed? What is stopping you from taking your medications in the agreed way (i.e., amount of medicine, embarrassed about taking it, simply forget to take it, don't think it helps, worried about side effects, interferes with other activities)? Do you have any concerns about the side effects of these medicines? Which side effects are most bothersome and why? Do those concerns affect how/when you take your medicine? How well do you control your asthma triggers: exposure to allergens? Exercise? Stress? Weight? Who have you discussed these concerns with? How much did this help? Are you seeking alternative treatments? Which ones? Are you aware of newer treatments for asthma? Biologics? Bronchial Thermoplasty? Have you asked about them and found them to be unavailable in your area or not known about by your physician?
Doctor – Patient relationship	 Are you able to ask him/her questions about your asthma? Does your physician provide you with enough information to the point where you can control your asthma? Have you ever seen a specialist (Respirologist or Allergist)? Are you regularly treated by a specialist? Do you attend an asthma clinic? Do you consider your pharmacist to be a key asthma health care professional? If yes, how do they support you? What would you like to see more of from their primary care doctor? Your specialist? Your pharmacist? Have you met with a Certified Asthma Educator or a Certified Respiratory Educator? Were they helpful? Do you feel that you have all the support they need to manage your asthma (i.e., from health professionals/family/work)? Do you feel involved in decisions about your asthma care and treatment?
Barriers/Challenges to care: Obtaining information Access to the system	 How would you describe your healthcare experience with respect to your asthma? Do you experience financial difficulties as a result of your asthma? Have you experienced or do you feel there are any barriers to accessing the healthcare system for managing your asthma? Does it take you a long time to see a specialist? How long? Is the cost of your medication impacting how your asthma is controlled?

Wrap up and Close

Moderator Guide

The moderator will wrap up and close the session by asking the following questions if time is remaining:

- Is there anything else that you would like to say about living with severe asthma?
- Is there anything the Asthma Society of Canada could be doing better, or doing to help individuals like you?
- If you could ask for one thing that would make living with severe asthma easier what would it be?

The moderator will thank the participants for their time and direct any questions and/or concerns about the interview and how it is being used to the Research Lead, (insert name).

K. Facilitator Guide for In-Person Interview

Insert Organization Logo

Asthma Matters: A Study of Adult Canadians Living With Severe Asthma

Oath of Confidentiality

study being conducted by	or / transcriber / audio/ video assistant/ or research assistant (circle one) for a under the supervision of al information will be made known to me.
•	collected during this study confidential and will not reveal by speaking, com- information in written, electronic (disks, tapes, transcripts, email) or any ne research team.
Name (Print):	Signature:
Date:	Witness Signature:

L. Small online quantitative Survey

Asthma Matters: A Study of Adult Canadians Living With Severe Asthma

This first section will be included in the introduction email

Purpose of the study

The goal of this study is to gain a better understanding about the experiences of Canadian adults affected by severe asthma and their needs and priorities in asthma management. During the previous phase of this study, the Asthma Society of Canada conducted a series of interviews with Canadian Adults living with severe asthma, listening to their stories and mapping out their journeys with asthma. This online survey is designed to build on those stories, verify what we have heard and to identify further issues and areas of concern, from the patient perspective, regarding the treatment and management of severe asthma in the Canadian Healthcare system.

Procedures involved in the study

- We are asking Canadians over 18, who believe they are living with severe asthma, to complete an online survey identifying their experiences.
- The survey will take approximately 20 minutes to complete and you have a choice of not answering any questions or withdrawing at any time.

Potential Harms, Risks or Discomforts:

- There is the remote chance that identifying your personal journey about living with severe asthma may be emotional, difficult, frustrating or upsetting as you complete the survey.
- We believe that the risk of emotional upset is no greater than in everyday life.

Potential Benefits:

- There are several benefits to individuals participating in the project as well as individuals with similar conditions who might also benefit from the results of this project.
- The benefits include having Asthma Society of Canada resources and National Asthma Patient Alliance (NAPA) programs available to patients to educate them about the importance of proper asthma control and to raise public awareness about the burden of severe asthma.

Confidentiality:

- Confidentiality will be respected and no information that discloses the identity of the participant will be released or published unless required by law.
- The personal information obtained in this survey will be kept anonymous and will not be revealed or used for any other purposes except for the purpose of this project.
- The ASC assures that the information that you provide will be kept confidential and your individual answers will not be shared or presented in any way that would identify you as the source.

Participation:

Your participation in this survey is entirely voluntary and there will be no negative consequences if you refuse to participate, withdraw from it, or refuse to answer certain questions in the survey.

This study has been reviewed by (name of Ethics Board), which is not affiliated with the research or research team, if you have any questions about your role and rights as a research participant, or have concerns, complaints or general questions about the research, please contact:

(Insert contact information for Ethics Board)

Contact for more information:

If you have any questions or concerns about the survey or how it is being used, please free to contact (*name of Project Manager*) and (*insert contact information*).

Opening section of the online survey

The goal of this study is to gain a better understanding about the experiences of Canadian adults affected by severe asthma and their needs and priorities in asthma management. During the previous phase of this study, the Asthma Society of Canada conducted a series of interviews with Canadian Adults living with severe asthma, listening to their stories and mapping out their journeys with asthma. This online survey is designed to build on those stories, verify what we have heard and to identify further issues and areas of concern, from the patient perspective, regarding the treatment and management of severe asthma in the Canadian Healthcare system.

Please note that while there is the remote chance that identifying your personal journey about living with severe asthma may be emotional, difficult, frustrating or upsetting as you complete the survey, we believe that the risk of emotional upset is no greater than in everyday life.

By participating in this survey, you are helping inform the development of resources and programs of the Asthma Society of Canada and National Asthma Patient Alliance (NAPA) programs which are available to patients to educate them about the importance of proper asthma control and to raise public awareness about the burden of severe asthma.

Confidentiality:

Confidentiality will be respected and no information that discloses the identity of the participant will be released or published unless required by law. The personal information obtained in this survey will be kept anonymous and will not be revealed or used for any other purposes except for the purpose of this project. The ASC assures that the information that you provide will be kept confidential and your individual answers will not be shared or presented in any way that would identify you as the source.

Your participation in this survey is entirely voluntary and there will be no negative consequences if you refuse to participate, withdraw from it, or refuse to answer certain questions in the survey.

Survey questions

Thi	s first section will help us identify if you fit the para	meters of this study.	
1.	 Are you or is any member of your family employed by or in any way affiliated with? (Please check all that apply) An ad agency/public relations firm/marking research firm Any government agencies involved with food, drug, environmental or trade regulation A manufacturer/retailer or wholesale distributor of pharmaceuticals None of the above Terminate if check any option other that "None of the above" 		
2.	2. How many years have you been living in Canada		
	☐ Less than 5 years — Terminate	☐ 5 plus years	
3.	In which age group are you? Under 18 - Terminate		
	□ 19 to 24 □ 40 to	49 □ 65 to 79	
	□ 25 to 29 □ 50 to	59	
	□ 30 to 39 □ 60 to	64 □ Refused	
4.	Have you ever been told by a health care profession	nal that you have asthma?	
	☐ Yes Are you currently prescribed medication for your as ☐ Yes	□ No - Terminate	
6.	What is the name of the medications you are taking □ Pulmicort® (Budesonide) □ Flovent® (Fluticasone) □ Serevent® (Salmeterol) □ Foradil®, Oxeze® (Formoterol) □ Symbicort® (Budesonide/formoterol) □ Advair® (Salmeterol/Fluticasone) □ Ventolin®, Apo-Salvent®, Novo Salmol®, Gen-salbutamol®, Alti-Salbutamol®, Airomir® (Salbutamol) □ Berte®, ipratropium bromide, Atrovent® (Venoterol hydrobromide) □ Bricanyl® (Terbutaline sulfate) □ Alvesco® (Ciclesonide) □ QVAR® (Beclomethasone dipropionate) □ Zenhale® (Mometasone Furoate)	□ Spiriva®) (Tiiotropium bromide) □ Onbrez® (Indacaterol) □ Seebri® (Glycopyronium) □ Accolate® (Zafirlukast) □ Singulair® (Montelukast) □ Prednisone □ Prednisolone (PediaPred®) □ Dexamethasone (Decadron®) □ Xolair® (Omalizumab) □ TheoDur® □ Uniphyll® □ Phyllocontin® □ TheoLair®	
7.	In the past 4 weeks, how often have you used your ☐ Less than 4 days/week — Terminate ☐ More than 4 days/week	reliever or your rescue medication because of your asthma? ☐ Several times a day	

8.	How often have you used or Never – Terminate	required an oral or systemi	c corticosteroid bec	ause of your asthma exacerbations?
	☐ Once or more per yea	r □ One a mo	onth	☐ Once a week
Ple	ease tell us a bit about your	rself		
9.	What is your Gender?			
	□ Male	☐ Female		
10	. Please specify which Provinc	e or Territory you reside in:		
	□ Alberta	☐ Labrador		☐ Prince Edward Island
	☐ British Columbia	□ Northwes	st Territories	☐ Quebec
	☐ Manitoba	□ Nova Sco	tia	☐ Saskatchewan
	☐ New Brunswick	□ Nunavut	Territories	☐ Yukon Territories
	☐ Newfoundland and	☐ Ontario		
11	. What are the first 3 digits of	your postal code?		
12	. Please tell us about your city	or community.		
	☐ Small population cent	re, with a population of bet	tween 1,000 and 29,	999
	☐ Medium population ce	entre, with a population of	between 30,000 and	d 99,999
13	☐ Large urban populatio . How would you describe you	n centre, consisting of a po	pulation of 100,000	and over
	□ Urban	□ Suburban	□ Rural	□ Remote
14	. What is your highest education	onal level achieved?		
	☐ Elementary School	☐ College d	egree	☐ Post-Graduate degree
	☐ High school diploma	☐ University	y degree	☐ Rather not say
15	. Which one of the following b	est describes your employi	ment situation?	
	☐ Employed full-time	☐ Unemplo	yed	☐ Stay at home parent
	☐ Employed part-time	☐ Not work	ing due to	☐ Student
	□ Retired	disability		☐ Rather not say
16	. Which of the following incon	ne groups would best descr	ibe your annual hou	sehold income?
	☐ Less than \$19,999	□ \$50,000 -	- 69,999	□ 150,000 or more
	□ \$20,000 – 29,999	□ \$70,000 -	- 89,999	□ Rather not say
	□ \$30,000 – 39,999	□ \$90,000 -	- 119,999	
	□ \$40,000 – 49,999	□ \$120,000	– 149,999\$	

Now v	ve'd like to talk a bit about your ex	perience of living with	asthma	
17.	When were you diagnosed with asthr	na?		
	☐ More than 1 year		Less than 1 year	
	If Less than 1 year, for how n	nany months have you be	en diagnosed wit	h asthma?
	☐ 1 month	☐ 5 months		☐ 9 months
	☐ 2 months	☐ 6 months		☐ 10 months
	☐ 3 months	☐ 7 months		☐ 11 months
	☐ 4 months	☐ 8 months		☐ Don't know
	If More than 1 year, for how	many years have you bee	n diagnosed with	asthma?
	☐ Less than 10 years		☐ From 20 t	o 34 years
	☐ From 10 to 15 years		☐ More tha	n 34 years
	☐ From 15 to 20 years		□ Don't Kno)W
18.	At what age were you first diagnosed	with asthma?		
	☐ Before I was 12 years old		Between the ages	of 30 and 50 years
	☐ Between the ages of 12 and 20 year	nrs 🗆 /	After the age of 5	0 years
	☐ Between the ages of 21 and 30 year	nrs		
19.	Who initially or first diagnosed your a	sthma?		
	☐ General Practitioner/	☐ Respirologist]	☐ Intern/Medical Resident
	Family Medicine Physician	□ Cardiologist]	☐ Technician at clinic
	☐ Allergist	☐ Myself (self-diagnos	is) [□ Don't know
	☐ Respiratory Specialist	☐ Obstetrician]	□ Other?
	☐ Pediatrician			
20.	Prior to your diagnosis of asthma, we Spirometry, Methacholine Challenge)		reathing testing (p	oulmonary functions,
	□ Yes	□ No]	□ Don't Know
21.	Has the healthcare professional who lab for a breathing test (spirometry, b		•	•
	☐ Yes		No	
22.	How strongly do you agree or disagree 1 means you totally disagree and 5 m somewhat disagree, 3 neither disagree a. Asthma is a chronic disease b. Asthma symptoms come on sudder c. Asthma, if not controlled, will lead d. Asthma treatment should [can] be	eans you totally agree with energe agree, 4 somewhath and a sure and a sure and a sure and a sure agree with a sure agre	th the statement. <i>agree, 5 – Totall</i> y	[1- Totally disagree, 2-
	e. Exercise is an asthma trigger, so on f. Asthma symptoms come on gradua	e should not exercise (str	enuously)	

23.	Thinking specifically of your asthma, ho	ow has your physician most recently descri	ibed the level of severity, is it?
	□ Very Mild	☐ Moderate	□ Severe
	□ Mild	☐ Moderately Severe	☐ Don't Know
24.	Do you believe that your asthma is		
	□ Well Controlled	☐ Not Well Controlled	□ Don't Know
	☐ Adequately Controlled	☐ Not Controlled At All	
25.	Do you have an Asthma Managemen ☐ Yes, I use it regularly	·	
	☐ Yes, but I have not used it or upda	•	so I don't fool thay are offective
		agement Action Plan or Asthma Diary because	·
	☐ No, I have never neard of an Astrii	na Management Action Plan or Asthma	Diary
26.	If you use or were going to use an As would be most useful for managing y	thma Management Action Plan or Asthn our asthma?	na Diary, which type do you feel
	☐ A paper version/pamphlet		
	☐ An electronic version I can use on		
	☐ I don't think any Asthma Manageme	ent Action Plan or Asthma Diary would be	effective, regardless of the format
This se	ection will help us identify the imp	act living with asthma has on your d	laily life
	•		,
27.		ys on average did you experience daytin	
	In the past 4 weeks, on how many da	ys on average did you experience daytin	
	In the past 4 weeks, on how many da wheezing, chest tightness, shortness ☐ Less than 2 days/week	ys on average did you experience daytin of breath) because of your asthma?	ne symptoms (coughing,
27.	In the past 4 weeks, on how many da wheezing, chest tightness, shortness ☐ Less than 2 days/week In the past 4 weeks, have you had an	ys on average did you experience daytin of breath) because of your asthma? Greater than 2 days/week	ne symptoms (coughing,
27.	In the past 4 weeks, on how many da wheezing, chest tightness, shortness ☐ Less than 2 days/week In the past 4 weeks, have you had an your asthma? ☐ None	ys on average did you experience daytin of breath) because of your asthma? ☐ Greater than 2 days/week y limitations to activities such as exercise ☐ Some Limitation	ne symptoms (coughing,
27.	In the past 4 weeks, on how many day wheezing, chest tightness, shortness ☐ Less than 2 days/week In the past 4 weeks, have you had anyour asthma? ☐ None How many times in the last 6 months	lys on average did you experience dayting of breath) because of your asthma? Greater than 2 days/week y limitations to activities such as exercised Some Limitation s have you been to an emergency depart	me symptoms (coughing, Multiple times per day e or daily activities because of Extremely limited tment for asthma?
27.	In the past 4 weeks, on how many day wheezing, chest tightness, shortness □ Less than 2 days/week In the past 4 weeks, have you had anyour asthma? □ None How many times in the last 6 months □ 0 □ 2	ys on average did you experience dayting of breath) because of your asthma? Greater than 2 days/week y limitations to activities such as exercised Some Limitation s have you been to an emergency depart	ne symptoms (coughing,
27.	In the past 4 weeks, on how many day wheezing, chest tightness, shortness □ Less than 2 days/week In the past 4 weeks, have you had anyour asthma? □ None How many times in the last 6 months □ 0 □ 2 □ 2 □ 1 □ 3	lys on average did you experience dayting of breath) because of your asthma? Greater than 2 days/week y limitations to activities such as exercised Some Limitation s have you been to an emergency depart	me symptoms (coughing, Multiple times per day e or daily activities because of Extremely limited tment for asthma? More than 5 times
27.28.29.	In the past 4 weeks, on how many day wheezing, chest tightness, shortness □ Less than 2 days/week In the past 4 weeks, have you had anyour asthma? □ None How many times in the last 6 months □ 0 □ 2 □ 2 □ 1 □ 3	ys on average did you experience daytin of breath) because of your asthma? Greater than 2 days/week y limitations to activities such as exercise Some Limitation have you been to an emergency depart 4 5	me symptoms (coughing, Multiple times per day e or daily activities because of Extremely limited tment for asthma? More than 5 times
27.28.29.	In the past 4 weeks, on how many day wheezing, chest tightness, shortness Less than 2 days/week In the past 4 weeks, have you had anyour asthma? None How many times in the last 6 months 0 0 2 1 1 3 How many times in the last 6 months	ys on average did you experience dayting of breath) because of your asthma? Greater than 2 days/week y limitations to activities such as exercise Some Limitation have you been to an emergency depart 4 5 s have you been admitted to hospital for	ne symptoms (coughing, Multiple times per day e or daily activities because of Extremely limited tment for asthma? More than 5 times
27.28.29.30.	In the past 4 weeks, on how many day wheezing, chest tightness, shortness Less than 2 days/week In the past 4 weeks, have you had anyour asthma? None How many times in the last 6 months 2 2 2 3 4 4 4 4 4 5 6 months 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ys on average did you experience dayting of breath) because of your asthma? Greater than 2 days/week y limitations to activities such as exercised Some Limitation have you been to an emergency depart 4 5 have you been admitted to hospital for 4 5 15	ne symptoms (coughing, Multiple times per day e or daily activities because of Extremely limited tment for asthma? More than 5 times asthma?
27.28.29.	In the past 4 weeks, on how many day wheezing, chest tightness, shortness Less than 2 days/week In the past 4 weeks, have you had anyour asthma? None How many times in the last 6 months 1	ys on average did you experience daytin of breath) because of your asthma? Greater than 2 days/week y limitations to activities such as exercise Some Limitation have you been to an emergency depart 4 5 have you been admitted to hospital for 4 5 have you been to an emergency depart	ne symptoms (coughing, Multiple times per day e or daily activities because of Extremely limited tment for asthma? More than 5 times rasthma? More than 5 times
27.28.29.30.	In the past 4 weeks, on how many day wheezing, chest tightness, shortness Less than 2 days/week In the past 4 weeks, have you had anyour asthma? None How many times in the last 6 months and anyour asthma? 1	ys on average did you experience daytin of breath) because of your asthma? Greater than 2 days/week y limitations to activities such as exercise Some Limitation have you been to an emergency depart 4 5 have you been admitted to hospital for 4 5 have you been to an emergency depart 4 5 have you been admitted to hospital for 4 5 have you been to an emergency depart 4 5 have you been to an emergency depart 4 5	ne symptoms (coughing, Multiple times per day e or daily activities because of Extremely limited tment for asthma? More than 5 times asthma?
27.28.29.30.	In the past 4 weeks, on how many day wheezing, chest tightness, shortness Less than 2 days/week In the past 4 weeks, have you had anyour asthma? None How many times in the last 6 months 1	ys on average did you experience daytin of breath) because of your asthma? Greater than 2 days/week y limitations to activities such as exercise Some Limitation have you been to an emergency depart 4 5 have you been admitted to hospital for 4 5 have you been to an emergency depart	ne symptoms (coughing, Multiple times per day e or daily activities because of Extremely limited tment for asthma? More than 5 times rasthma? More than 5 times
27.28.29.30.	In the past 4 weeks, on how many day wheezing, chest tightness, shortness Less than 2 days/week In the past 4 weeks, have you had anyour asthma? None How many times in the last 6 months and anyour asthma? 1 1 1 3 4 1 4 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	ys on average did you experience daytin of breath) because of your asthma? Greater than 2 days/week y limitations to activities such as exercise Some Limitation have you been to an emergency depart 4 5 have you been admitted to hospital for 4 5 have you been to an emergency depart 4 5 have you been admitted to hospital for 4 5 have you been to an emergency depart 4 5 have you been to an emergency depart 4 5	ne symptoms (coughing, Multiple times per day e or daily activities because of Extremely limited tment for asthma? More than 5 times More than 5 times More than 5 times
27.28.29.30.31.	In the past 4 weeks, on how many day wheezing, chest tightness, shortness Less than 2 days/week In the past 4 weeks, have you had anyour asthma? None How many times in the last 6 months and anyour asthma? 1 1 1 3 4 1 4 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	ys on average did you experience dayting of breath) because of your asthma? Greater than 2 days/week y limitations to activities such as exercised Some Limitation have you been to an emergency depart 4 5 have you been admitted to hospital for 4 5 have you been to an emergency depart 7 8 9 10 11 12 13 15 15 15 15 16 17 17 18 18 19 19 10 10 10 11 11 12 13 14 15 15 15 15 16 17 18 18 18 18 18 18 18 18 18	ne symptoms (coughing, Multiple times per day e or daily activities because of Extremely limited tment for asthma? More than 5 times More than 5 times More than 5 times
27.28.29.30.31.	In the past 4 weeks, on how many day wheezing, chest tightness, shortness Less than 2 days/week In the past 4 weeks, have you had anyour asthma? None How many times in the last 6 months 0	ys on average did you experience dayting of breath) because of your asthma? Greater than 2 days/week y limitations to activities such as exercised Some Limitation have you been to an emergency depart 4 5 have you been admitted to hospital for 4 5 hs have you been to an emergency depart 5 hs have you been admitted to hospital for 5 hs have you been to an emergency depart 5 hs have you been admitted to hospital for	me symptoms (coughing, Multiple times per day e or daily activities because of Extremely limited timent for asthma? More than 5 times More than 5 times More than 5 times More than 6 times

	□ Yes		□ No		
	If YES, approxima	itely how many days did yo	ou miss in the past year?		
	□ 1	□ 4	□ 7	□ 10	
	□ 2	□ 5	□ 8		
	□ 3	□ 6	□ 9		
.	Has your asthma affected	l your work or school perfo	rmance over the past ye	ar?	
	□ Yes		□ No		
	•	say your asthma affected		ormance	
	☐ A great deal		☐ Not at all		
	☐ Somewhat		☐ Don't Know		
	☐ Just a little				
5.		e you or a family member r cipating in activities or spo		ts, been absent from schoon symptoms?	
	□ Yes	□ No		□ Don't Know	
5 .	In the last 3 months, have you or a family member ever experienced trouble sleeping because of your asthma symptoms such as wheezing, persistent cough, shortness of breath or tightness of the chest?				
	□ Yes	□ No		□ Don't Know	
' .	How often do you feel that your asthma prevents you from participating in outdoor and/or physical activities?				
	□ Very often	□ Occasionally	☐ Not very often	□ Not at all	
3.	Has your asthma ever cau	used you to feel stigmatized	d or isolated?		
38.					
	□ No	☐ Sometimes		☐ Yes quite often	
).		\square Sometimes thma interferes with the qu		·	
).			uality of your social intera	·	
	Do you feel living with as □ No	thma interferes with the qu	uality of your social intera	actions with others?	
	Do you feel living with as □ No	thma interferes with the qu □ Sometimes	uality of your social intera 6 6 months?	actions with others?	
	Do you feel living with as ☐ No How many asthma attack	thma interferes with the qu	uality of your social intera 6 6 months?	actions with others? ☐ Yes quite often	
	Do you feel living with as ☐ No How many asthma attack ☐ 0	thma interferes with the question of the past of the p	uality of your social intera 6 months?	actions with others? ☐ Yes quite often ☐ More than 5	
).	Do you feel living with as ☐ No How many asthma attack ☐ 0 ☐ 1 ☐ 2	thma interferes with the question of the past of the p	uality of your social intera 6 6 months?	actions with others? ☐ Yes quite often ☐ More than 5 ☐ More than 10	
).).	Do you feel living with as ☐ No How many asthma attack ☐ 0 ☐ 1 ☐ 2	thma interferes with the questions of the past of the	uality of your social intera 6 6 months? 12 months?	actions with others? ☐ Yes quite often ☐ More than 5 ☐ More than 10	
).	Do you feel living with as No How many asthma attack 0 1 2 How many asthma attack	thma interferes with the questions of the past of the	uality of your social intera 6 months? 12 months?	actions with others? ☐ Yes quite often ☐ More than 5 ☐ More than 10 ☐ Don't know	
١.	Do you feel living with as No How many asthma attack 0 1 2 How many asthma attack 0	thma interferes with the questions of the past of the	uality of your social intera 6 6 months? 12 months?	actions with others? Yes quite often More than 5 More than 10 Don't know More than 5	
	Do you feel living with as No How many asthma attack 0 1 2 How many asthma attack 0 1 2	thma interferes with the questions of shave you had in the past and a second a secon	uality of your social intera 6 6 months? 12 months?	actions with others? Yes quite often More than 5 More than 10 Don't know More than 5 More than 5	
).	Do you feel living with as No How many asthma attack 0 1 2 How many asthma attack 0 1 2	thma interferes with the questions of sometimes are sometimes as have you had in the past are as a second are a second are as a second are a second a	uality of your social interaction. 6 months? 12 months?	actions with others? Yes quite often More than 5 More than 10 Don't know More than 5 More than 5	

	□ Yes	□ No	□ Don't Know
his s	section will tell us some mor	e about your experience	e with asthma medications and treatment
4.	On average, how often do yo symptoms)?	u use your asthma reliever	r medication (used to quickly alleviate asthma
	☐ Once a day	□ Once a week	☐ Don't know
	☐ Twice a day	☐ Twice a week	
	☐ Three times a day	☐ Three times a	week
5.	What is the name of the medic	ations you are taking for yo	our reliever medication? (Please check all that apply
	☐ Pulmicort® (Budesonide)		☐ Spiriva® (Tiiotropium bromide)
	☐ Flovent® (Fluticasone)		☐ Onbrez® (Indacaterol)
	□ Serevent® (Salmeterol)		☐ Seebri® (Glycopyronium)
	☐ Foradil®, Oxeze® (Formoterol)		□ Accolate® (Zafirlukast)
	 □ Symbicort® (Budesonide/formoterol) □ Advair® (Salmeterol/Fluticasone) □ Ventolin®, Apo-Salvent®, Novo Salmol®, Gen-salbutamol®, Alti-Salbutamol®, Airomir® (Salbutamol) 		☐ Singulair® (Montelukast)
			□ Prednisone
			□ Prednisolone (PediaPred®)
			☐ Dexamethasone (Decadron®)
			□ Xolair® (Omalizumab)
	☐ Berotec®, ipratropium bro	mide, Atrovent®	□ TheoDur®
	(Venoterol hydrobromide)	fata)	□ Uniphyll®
	☐ Bricanyl® (Terbutaline sul	iate)	□ Phyllocontin®
	☐ Alvesco® (Ciclesonide)QVAR® (Beclomethasone	dipropionate)	□ TheoLair®
	Zenhale® (Mometasone furoate/formoterol)		□ Other
	☐ Asmanex® (Mometasone	Furoate)	$\hfill\Box$ None of the above
6.	During the past week, how m coughing, wheezing, chest tig	•	take your reliever medications for relief of
7.			ler medication (medications which help to treat
	the underlying inflammation	•	ici medication (medications which help to treat
	☐ Once a day	□ Once a week	☐ Don't know
	☐ Twice a day	☐ Twice a week	
	☐ Three times a day	☐ Three times a	week
8.	What is the name of the med that apply)	ications you are taking for	your controller medication? (Please check all
	☐ Pulmicort® (Budesonide)		☐ Serevent® (Salmeterol)
	☐ Flovent® (Fluticasone)		☐ Foradil®, Oxeze® (Formoterol)

	☐ Symbicort® (Budesonide/formoterol)	□ Onbrez [®] (Indacaterol)
	☐ Advair [®] (Salmeterol/Fluticasone)	☐ Seebri® (Glycopyronium)
	☐ Ventolin®, Apo-Salvent®, Novo Salmol®,	☐ Accolate® (Zafirlukast)
	Gen-salbutamol®, Alti-Salbutamol®, Airomir® (Salbutamol)	☐ Singulair® (Montelukast)
	☐ Berotec®, ipratropium bromide, Atrovent®	□ Prednisone
	(Venoterol hydrobromide)	☐ Prednisolone (PediaPred®)
	☐ Bricanyl® (Terbutaline sulfate)	☐ Dexamethasone (Decadron®)
	☐ Alvesco® (Ciclesonide)	☐ Xolair [®] (Omalizumab)
	☐ QVAR® (Beclomethasone dipropionate)	□ TheoDur®
	☐ Zenhale® (Mometasone furoate/	□ Uniphyll®
	formoterol)	□ Phyllocontin®
	☐ Asmanex® (Mometasone Furoate)	□ TheoLair®
	□ Spiriva®) (Tiiotropium bromide)	□ Other
		\square None of the above
49.	Do you use a single maintenance and reliever therapy	(SMART)?
	yes □ No	□ Unsure
50.	On how many separate occasions in the last 12 month	s, if any, have you taken prednisone? (An occasion
	would be a single course of treatment)	
51.	When you take the medicines that your doctor current following to you? Please use a scale of 1 to 5 where 1 important. [1- Not at all important, 2- not very important somewhat important, 5 – very important]	means not at all important and 5 means very
	a. How often you take it	f. Side effects that last a short time and then
	b. Taking it in private	pass
	c. Convenience	g. The way you take it (inhaler, pills etc.)
	d. Cost	h. How quickly it works
	e. Side effects that will come on slowly but last a long time	i. How completely it stops your symptoms
52.	Now thinking about how you take your medicines, in a the following ways of taking your medicine. For the following wou don't like it at all and 5 means you like it 3 neither dislike nor like it, 4 somewhat like it, 5 – Like it	lowing options, please use a scale of 1 to 5 where a lot? [1- Don't like it at all, 2- somewhat dislike it,
	a. A pill once a day	d. A pill once a month
	b. An injection once a day	e. An injection once a month
	c. An inhaler once a month	
53.	Which of the following methods would you prefer?	
55.	a. A pill once a day	d. A pill once a month
	b. An injection once a day	e. An injection once a month
	c. An inhaler once a month	

54.	Do you use any asthma related equipment such as	a spacer or peak flow meter?			
	□ Yes □ No				
	If NO, why not?				
	☐ I don't think they are useful	☐ I find it difficult to find them			
	☐ I can't afford one	☐ I was never given/prescribed one			
	☐ I don't know anything about them	□ 1 was never given, presented one			
	in a contention anything about them				
	If YES, what type of related equipment do	you use?			
55.		as a result of successfully managing your asthma? all important and 5 means very important. [1- Not at important nor important, 4 somewhat important, 5 –			
	a. No hospital admissions or emergency room visits	e. No daytime symptoms			
	b. Able to do normal things (housework,	f. No nighttime symptoms			
	walking, etc)	g. Improved breathing test results			
	c. Do not need reliever treatment d. Able to exercise without symptoms	h. Able to go to work i. Reduce amount of asthma medication			
	d. Abic to excluse without symptoms	1. Neduce amount of astima medication			
56.	Please rate the following statements using a scale means highly agree. [1- Do not agree at all, 2- som somewhat agree, 5 – highly agree]				
	 a. I would like to take asthma medication more oft b. I take my asthma medication exactly as instructed c. I only take my asthma medication when I have a d. My pharmacist suggests less costly alternatives com 	ed by my doctor			
57.	Have you ever skipped filling a prescribed asthma	medication because you were not able to afford it?			
	□ Yes	□ No			
58.	Have you ever experienced any of the following si that apply)	gns or symptoms in the last 6 months (Please check all			
	☐ Yes, thrush in the mouth or throat or white, sore	e patches			
	☐ Yes. Hoarseness/voice alteration				
	☐ Yes, Sore/irritated throat				
	☐ No never experienced anything that is mentioned If you have had any of the signs and symplements.				
	☐ Start Gargling with water after taking in	haled steroid			
	☐ Visited my doctor to check out side effe				
	☐ Made no changes to my schedule of tre				
	☐ Used my asthma medication less freque				
	☐ Switched to another medication				
	☐ Stopped taking my asthma medication				
	□ Other				
	□ Nothing				
	□ Don't know				

59.	Have you ever not taken your prescribed medic	rations?
	□ Yes	□ No
	If yes, how many days a week have you	missed?
	☐ I usually miss 2 days/week	☐ I rarely miss a day
	☐ I miss 2-4 days/week	□ Don't know
	☐ I miss more than 4 days/week	
60.	What is the main reason you might stop or not	take the correct dosage?
	☐ Forgot/Didn't have it with me	☐ Doctor told me to stop
	□ No reason	☐ Only took as needed
	☐ Side effects/reactions	☐ I was asleep/unconscious
	☐ Cost/couldn't afford it	☐ Don't want to be dependent
	☐ Did not refill prescription/ran out	□ Other
	☐ Didn't work/had no effect	☐ I did not need/feel better
	☐ Health reasons/sick	☐ Don't know
	□ No time/too busy	
61.	Who is your primary source of care?	
	☐ Family doctor	☐ Community clinic
	☐ Respiratory Specialist	☐ Certified Asthma or Respiratory Educator
	☐ Respirologist	☐ Pharmacist
	☐ Hospital	□ Other
62.	Who do you feel is best suited to be your prima	ary source of care?
	☐ Family doctor	☐ Community clinic
	☐ Respiratory Specialist	☐ Certified Asthma or Respiratory Educator
	☐ Respirologist	☐ Pharmacist
	☐ Hospital	□ Other
63.	For each topic, please use a scale of 1 to 5 whe	who treats your asthma, about the following topics? re 1 means not at all comfortable and 5 means very very comfortable, 3 – neither uncomfortable nor a comfortable]
	 a. Talking about your medication concerns b. Talking about making medication changes or naturopath or alternative practitioner c. Talking about the cost of medications d. That you need or want more information e. That you need or want a referral to a speciali 	taking other therapies that were prescribed by a
64.	statements? Please use a scale of 1 to 5, where	, how strongly do you agree or disagree with the following 1 means you totally disagree and 5 means you totally 2- somewhat disagree, 3 – neither disagree nor agree, 4

	a. The doctor knows a lot about as		anth man
	c. The doctor gives me enough tim	ng the important decisions about my a se to talk about my asthma	astrima
	d. The doctor takes time to make s e. The doctor makes sure I am usir	sure that my medicines are right for many medication properly	y life and my asthma
65.	In the past year has any health car a. Asked you to demonstrate how		
	□ Yes	□ No	□ Unsure
	b. Discussed the benefits of a writt	ten asthma action plan?	
	□ Yes	□ No	☐ Unsure
	c. Asked what your concerns or fea	ars are about taking asthma medication	on?
	□ Yes	□ No	☐ Unsure
	d. Discussed the benefits and risks	of an inhaled steroid medication?	
	□ Yes	□ No	□ Unsure
66.	Has the doctor who treats you for a. An allergist or immunologi	your asthma, ever referred you to the ist for allergy testing?	e following?
	□ Yes	□ No	□ Unsure
	b. A respirologist or pulmono	ologist (lung specialist)?	
	☐ Yes	□ No	☐ Unsure
	c An acthma adjustion prog	ram?	
	c. An asthma education prog☐ Yes	nam: □ No	☐ Unsure
	d. A pulmonary function lab☐ Yes	for a breathing test (spirometry)? ☐ No	☐ Unsure
	□ 1e3	□ NO	□ Offisure
67.		ealth care worker when it comes to yo	ur asthma?
	☐ Yes If yes, which of the followi	☐ No ng health care workers do you have a	ccess to?
	☐ Family doctor	☐ Hospital	or Respiratory Educator
	☐ Respiratory Specialist	☐ Community clinic	□ Pharmacist
	☐ Respirologist	☐ Certified Asthma	□ Other
68.	Do you have access to pulmonary	physiology labs?	
	□ Yes	□ No	
69.	In obtaining asthma medication, w generic products?	ould you prefer to buy brand name p	roduct or less costly alternative
	☐ Less costly alternatives or gener	rics	ice
	☐ Brand name products	☐ Don't' know	1

70.	If your doctor suggested, a brand would you prefer to take?	I name and the pharr	nacist suggested an alternative generic, which	
	☐ Less costly alternatives or gen	erics	☐ No preference	
	☐ Brand name products		☐ Don't know	
71.	How is the cost of your medication	on covered? (check a	ll that apply)	
	☐ Provincial government drug pl	an		
	☐ Full private coverage provided	by my employer		
	☐ Partial private coverage provid	led by my employer		
	☐ Private Health Insurance purcl	nased by me		
	☐ I pay for my own asthma medi	cations at the pharm	acy as needed	
72.	Do you feel that your current me drug treatments to control your		r asthma drug costs provides you with sufficient do you feel you need more?	
	☐ Sufficiently covered	□ Need more	☐ Don't know	
73.	Are government and/or private private for medications to treat their ast		ough to provide patients with adequate coverage	
	□ Yes	□ No	□ Don't know	
74.	What else can government and/omedications to treat their asthmatical actions.		do to provide patients with adequate coverage for ly)	
	\square Cover more of the cost/all of t	he cost	☐ Equal coverage for everyone	
	\square Lower cost/price/deductible		☐ Improve the diagnosis	
	☐ Assist/Better coverage for low in	ncome families	☐ Access to brand names	
	\square Cover more/better medication	1	☐ Offer more trials/samples	
	☐ Create awareness/more inform	nation	☐ Take money from smokers	
	$\hfill\square$ Need to invest more money in	to asthma	☐ More research/New medications	
	☐ Better care/coverage for senion	rs	☐ Other	
	☐ Coverage for children		☐ Nothing/doing nothing	
	☐ Prevention/cleaner environme	ent	☐ Don't know	
	☐ Coverage for equipment			
75.	Are you exploring or taking alter	native treatments?		
	□ No		□ Yes	
	If yes, which ones?			
76.	Are you exploring or taking new	treatments such as b	iologics or bronchial thermoplasty?	
	□ No		□ Yes	
77.	Do you feel you have access to in	formation and service	es for newer treatments for severe asthma?	
	□ Yes	□ No	□ Not sure	
78.	Have you ever been denied cove company or the exceptional acce	•	tments for severe asthma by your insurance	
	□ Yes	□ No	□ Not sure	

79.	What is your primary information source about treatments for severe asthma?
iving	you for completing this survey. Your participation will help us better understand the experience of with asthma, identify further issues and areas of concern, from the patient perspective, regarding the
reatr	nent and management of severe asthma in the Canadian Healthcare system.
Disqu	alification message:
his st or fu	you for your interest in this study, however at this time you did not meet the requirements to participate in tudy. However, we often conduct market research studies and would like to keep your email address on file ture opportunities. If you are interested potentially participating in a future market research study please de us with your email address below.



The Asthma Society of Canada is the only national, patientdriven charity, solely devoted to enhancing the quality of life for people living with asthma and respiratory allergies.

For more than 40 years, the Asthma Society of Canada has proudly served as the national voice for Canadians living with asthma. We empower patients with evidence-based information, education programs and support asthma research in Canada.

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