RESEARCH TOOLS

ALL pages Translated by ChatGPT, approved by Ratchanont Thippimanporn, Wuttichai Khamna, Kannika Wiratchawa, and Thanapong Intharah

version 1, date 23 January 2025

What is NCDs Listener

1. A web application for extracting knowledge related to non-communicable diseases (NCDs) using data from public posts, presented in a dashboard format that allows users to customize or filter the information according to their preferences.
2. The web application includes a Generative AI component that assists in summarizing overall comments.

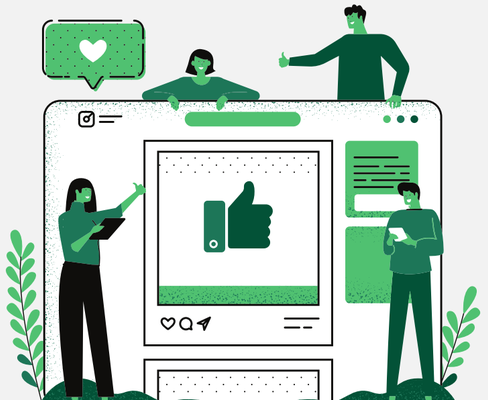
Research Objectives

- ✓ To develop a social media listening tool for non-communicable diseases (NCDs).

Objectives of This Evaluation

- ! To develop a social media listening tool for non-communicable diseases (NCDs).
- ! To develop data visualization and summarization using Generative AI based on user preferences.

PRE-SURVEY



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Pre-survey Data Collection Procedures

Select a sample

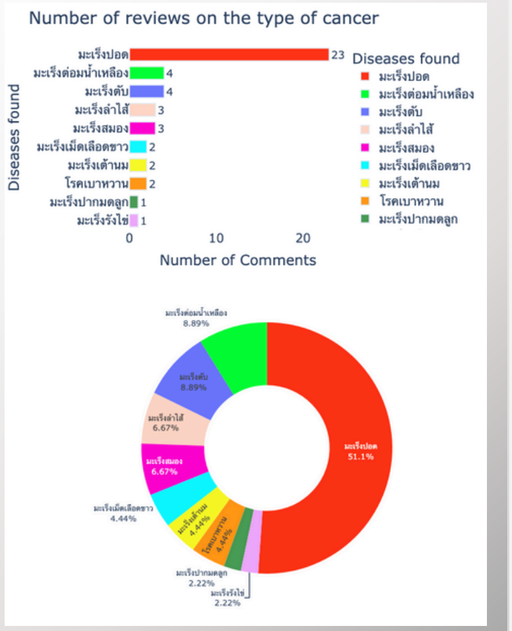
5 data scientists

5 general public

Explain

Explain the principles and objectives of NCDs Listener.

Review the variables and charts



Evaluate the charts and modify the dashboard.

Only variables with an average score greater than 4.21 will be selected for presenting the results.

Select the appropriate chart type for each variable based on the highest frequency of selection for each variable.

Results

Obtain the complete components in the dashboard.

Source of the opinion

Example

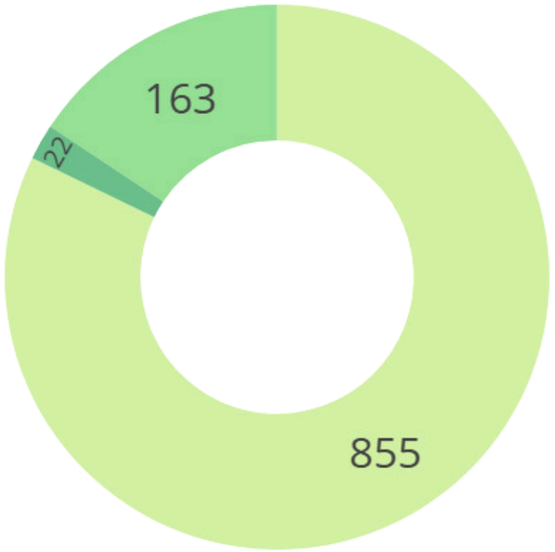
"Keep fighting, my husband. He doesn’t drink alcohol, has never smoked, yet he has stage 4 lung cancer. We are treating according to the symptoms and continue to fight."

Results: experience of others

Do you consider this variable to be relevant and capable of providing useful information?

Very Good | Good | Moderate | Poor | Very Poor

Source of the opinion



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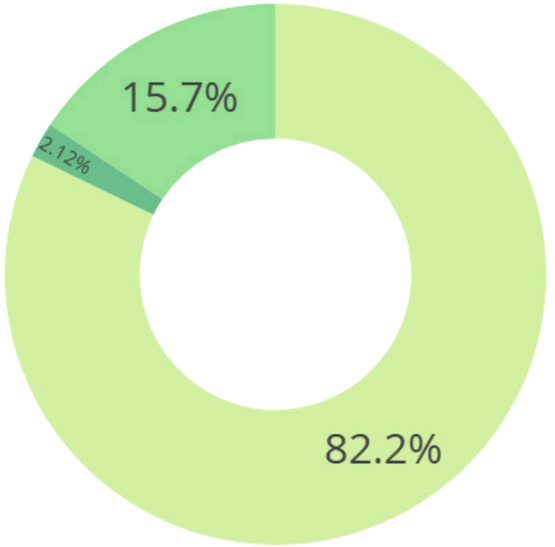

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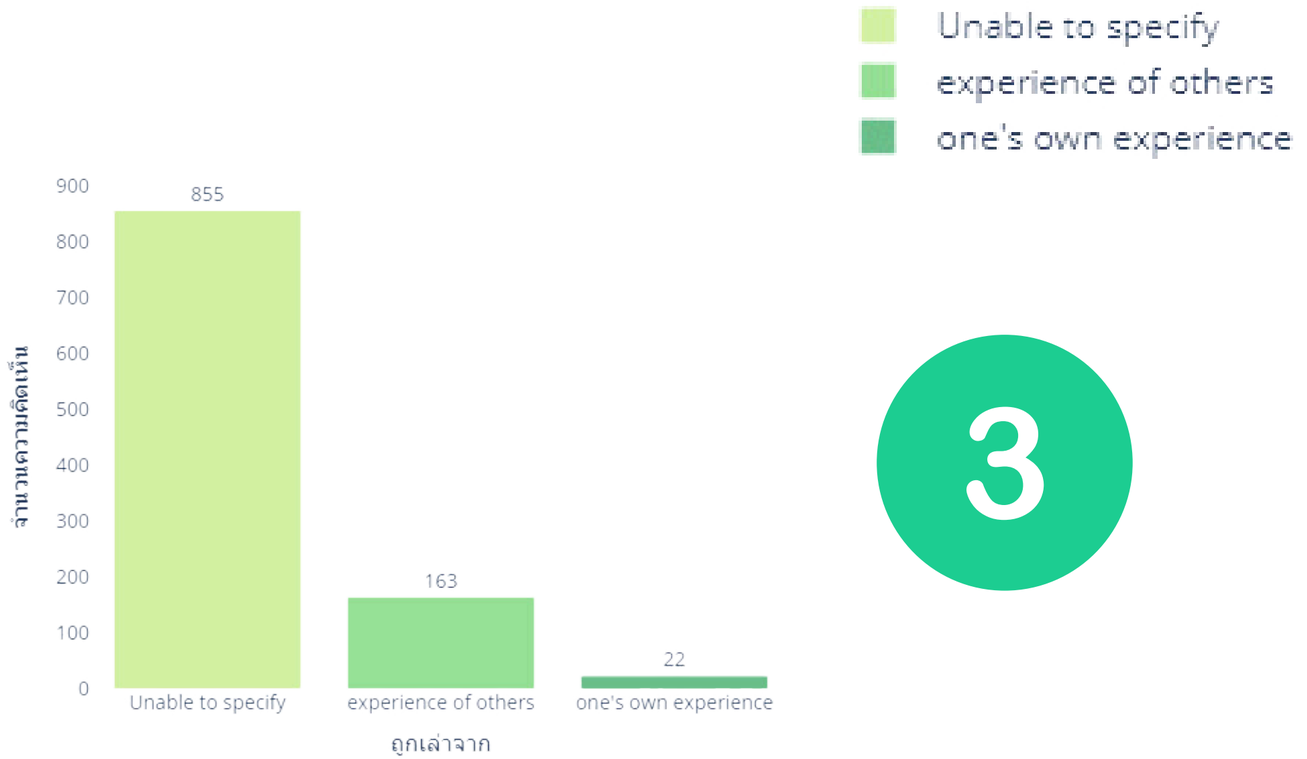

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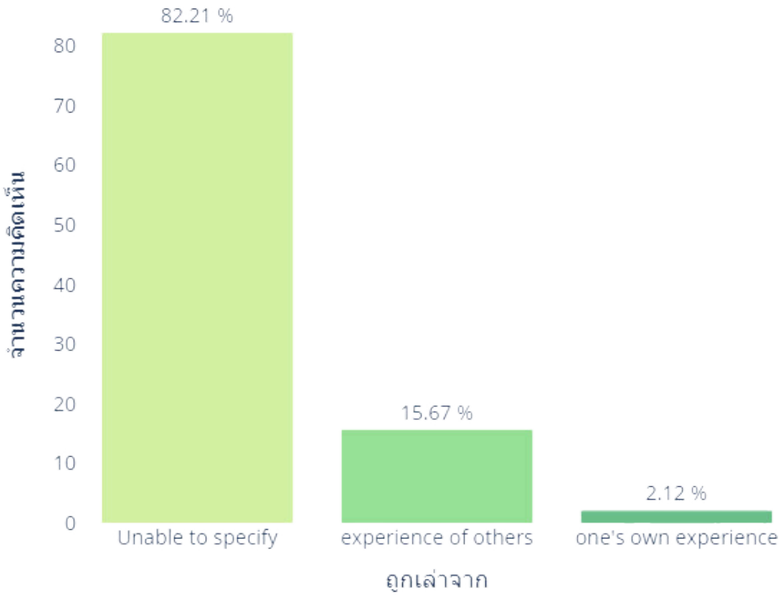

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Source of the opinion

Which chart type do you find most suitable for representing this variable?

Chart 1

Chart 2

Chart 3

Chart 4

Gender of the patient

Example

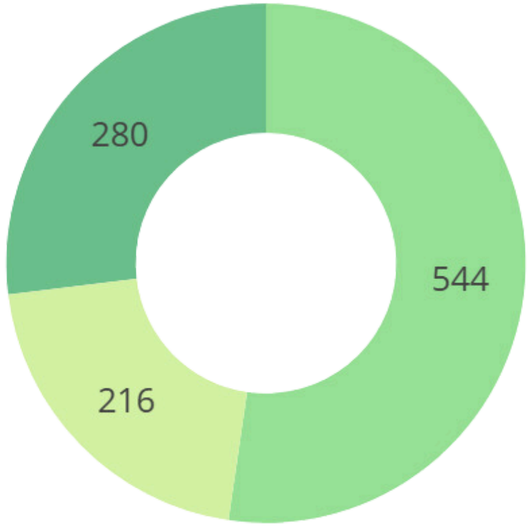
"My sister also had lung cancer. She never smoked and worked in an office. After one year of treatment, she passed away. It happened so quickly. I want to offer my support and encouragement to all patients out there."

Results: Female

Do you consider this variable to be relevant and capable of providing useful information?

Very Good | Good | Moderate | Poor | Very Poor

Gender of the patient



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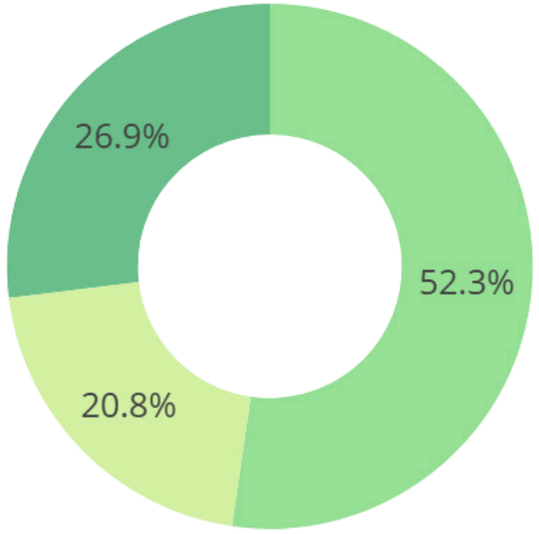

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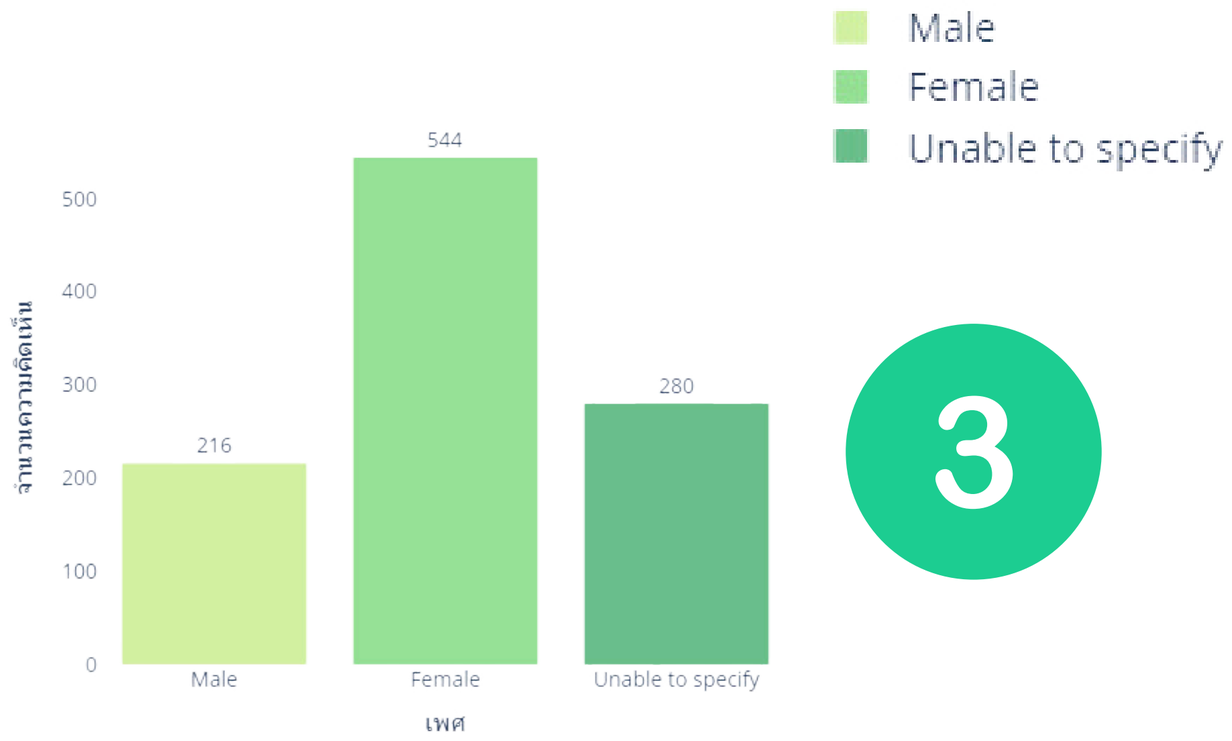

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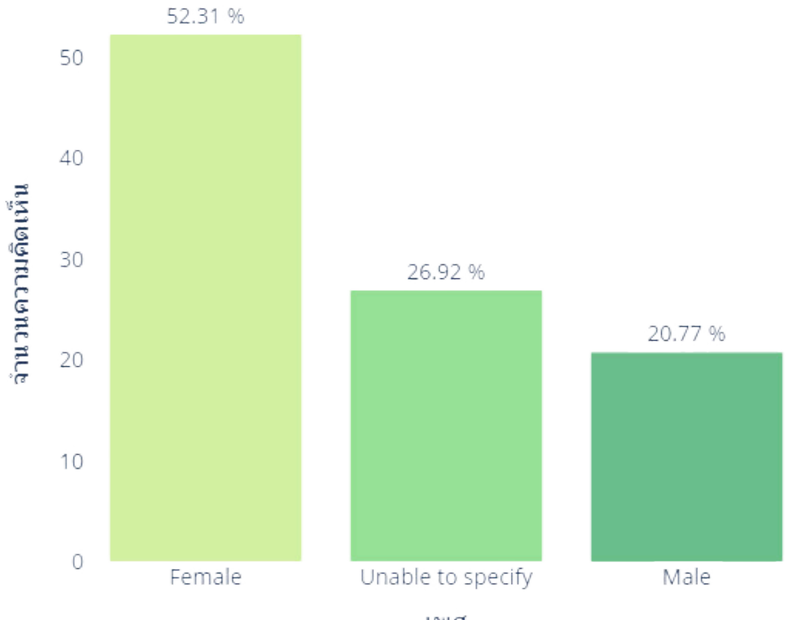

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Gender of the patient

Which chart type do you find most suitable for representing this variable?

Chart 1

Chart 2

Chart 3

Chart 4

Categorized comments

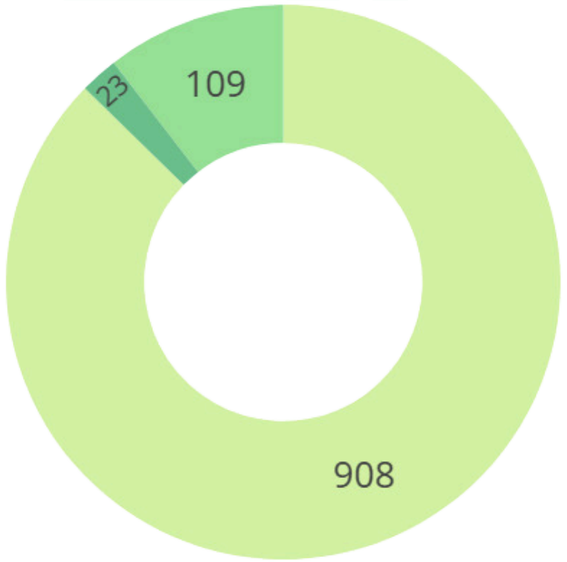
"My grandfather had been smoking since he was a teenager. He smoked from his youth until old age and passed away at the age of 80 without ever developing lung cancer. But those who never smoked ended up with lung cancer. It really makes you wonder–what exactly is the cause?"

Results: Tell Experience

Do you consider this variable to be relevant and capable of providing useful information?

Very Good | Good | Moderate | Poor | Very Poor

Categorized comments



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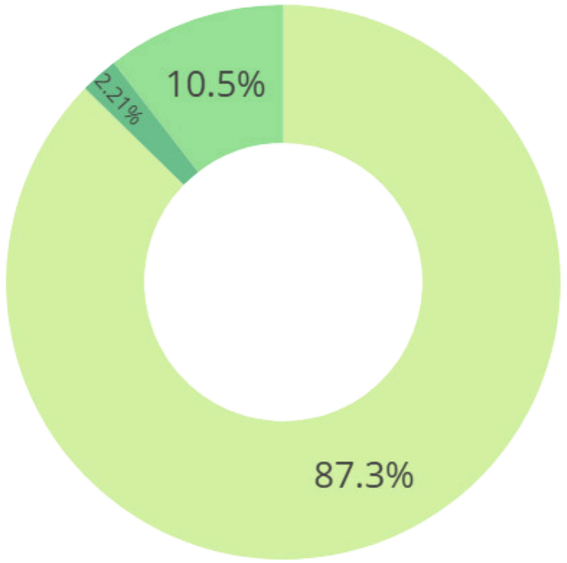

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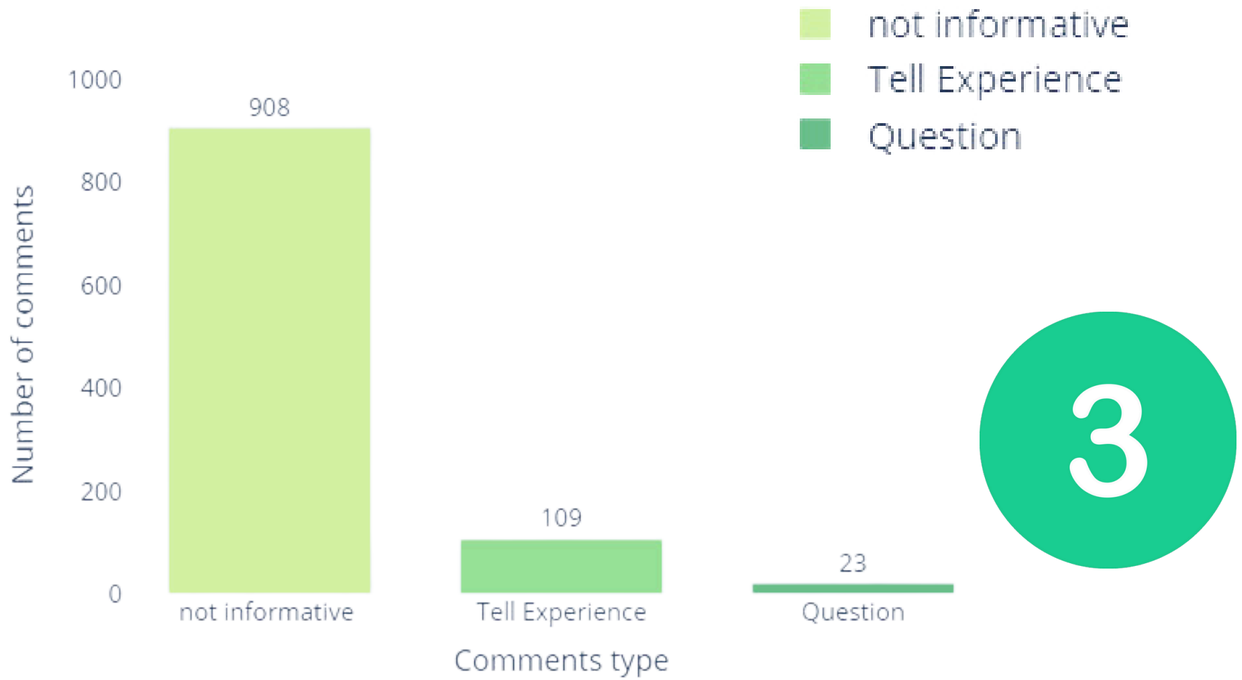

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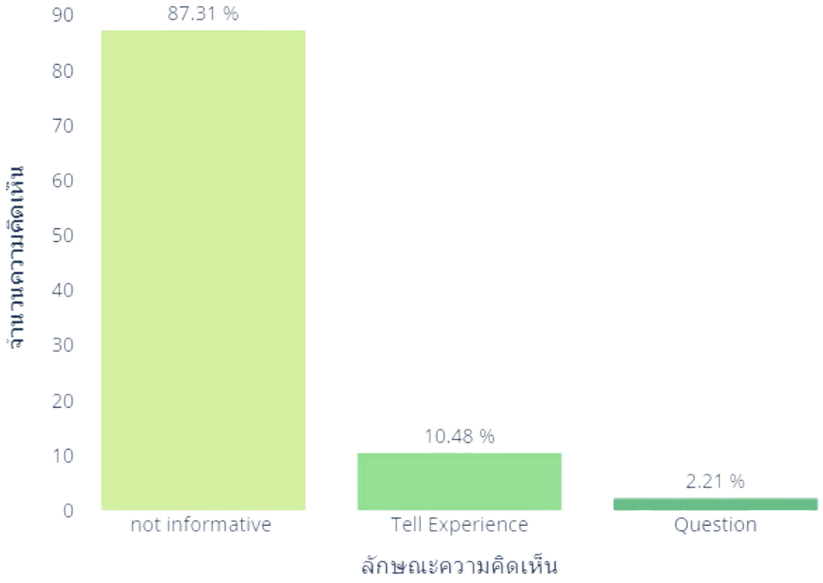

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version 1, date 23 January 2025

Categorized comments

Which chart type do you find most suitable for representing this variable?

Chart 1

Chart 2

Chart 3

Chart 4

Mentioned diseases

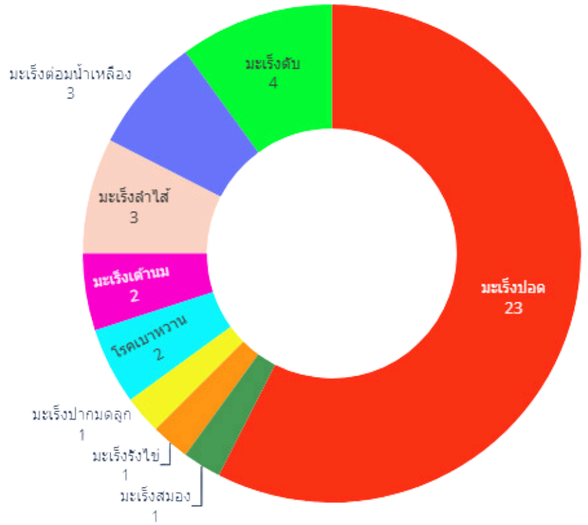
"Stay strong! I've been fighting lung cancer for 7 years. I was diagnosed at 17. I don't drink or smoke, yet I still got lung cancer. Now I'm 23, and I've learned that having strong mental support is extremely important. I follow symptom-based treatment and maintain strict discipline in what I eat. Today, I'm married and expecting a baby. Keep fighting!"

Result: Lung cancer is mentioned.

Do you consider this variable to be relevant and capable of providing useful information?

Very Good | Good | Moderate | Poor | Very Poor

Mentioned diseases



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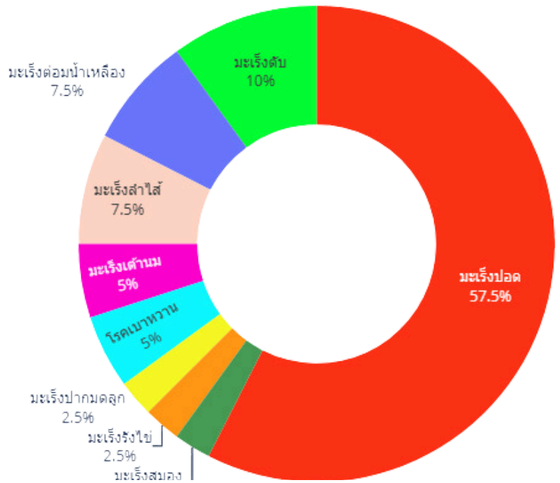

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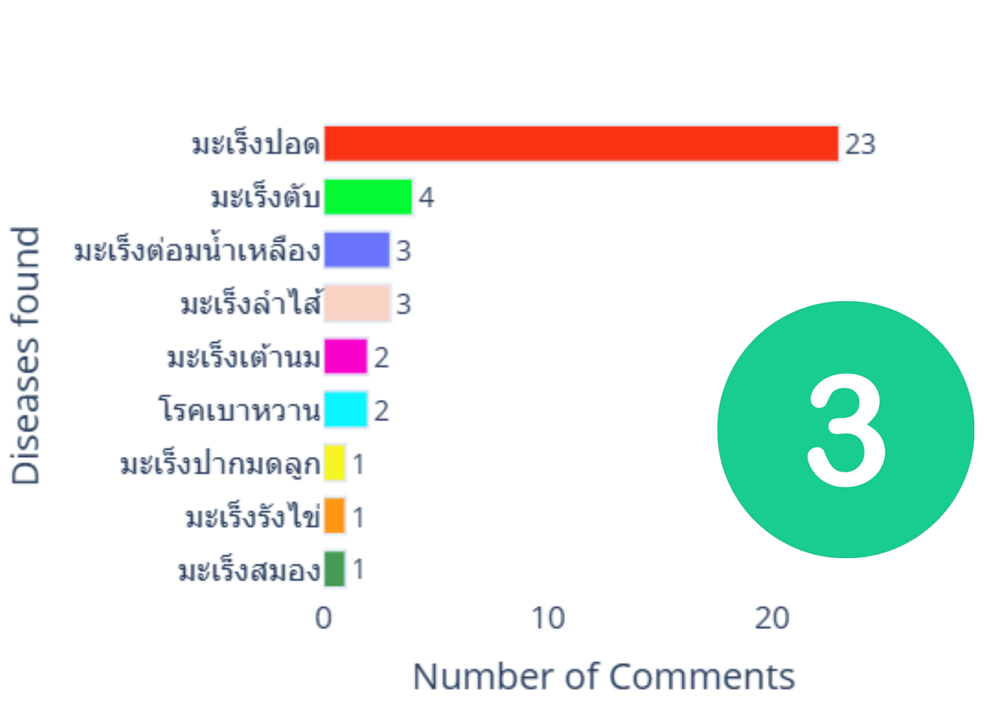

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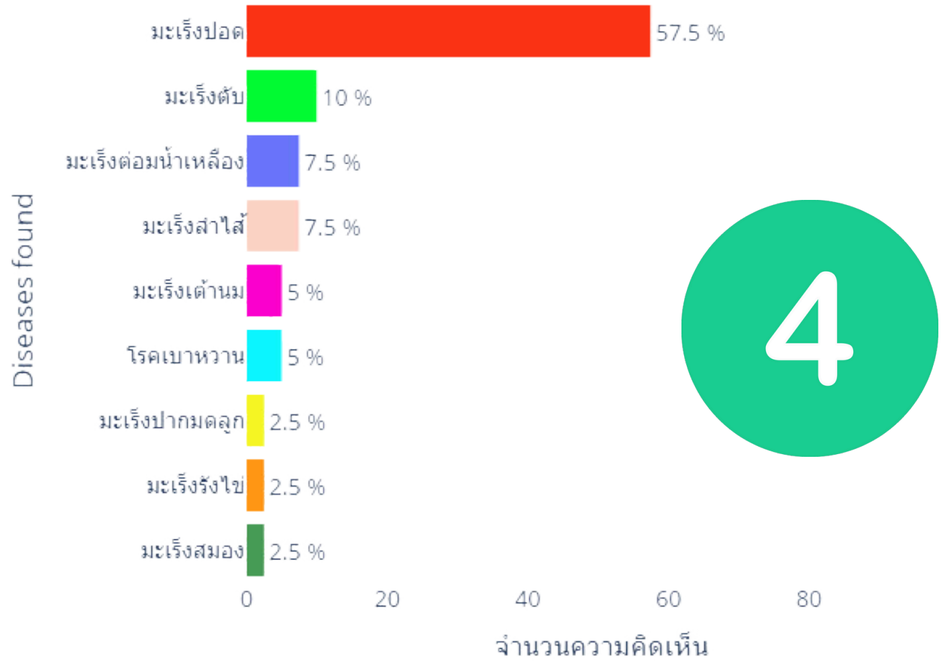

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Mentioned diseases

Which chart type do you find most suitable for representing this variable?

Chart 1

Chart 2

Chart 3

Chart 4

Mentioned symptoms

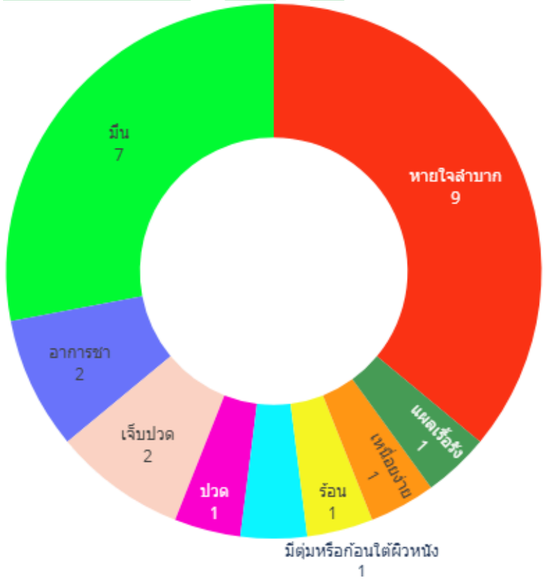
"My heart races when I’m excited, startled, or angry. My hands tremble, and sometimes I feel like I can’t breathe properly. My emotions are unstable. I’m trying not to be stressed. If anyone has good advice, I’d really appreciate it."

Result: Symptoms mentioned include rapid heartbeat, being startled, anger, hand tremors, and abnormal breathing.

Do you consider this variable to be relevant and capable of providing useful information?

Very Good | Good | Moderate | Poor | Very Poor

Mentioned symptoms



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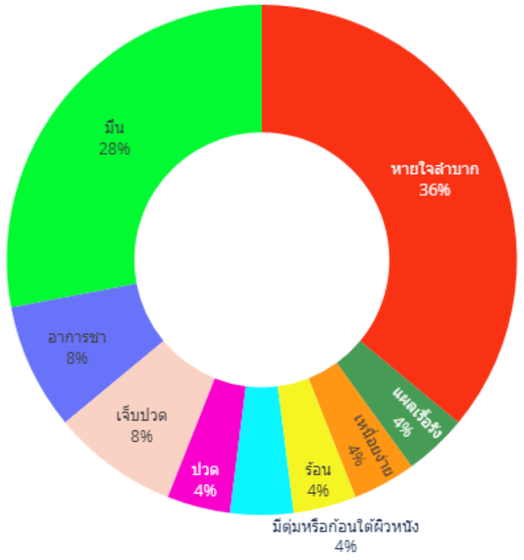

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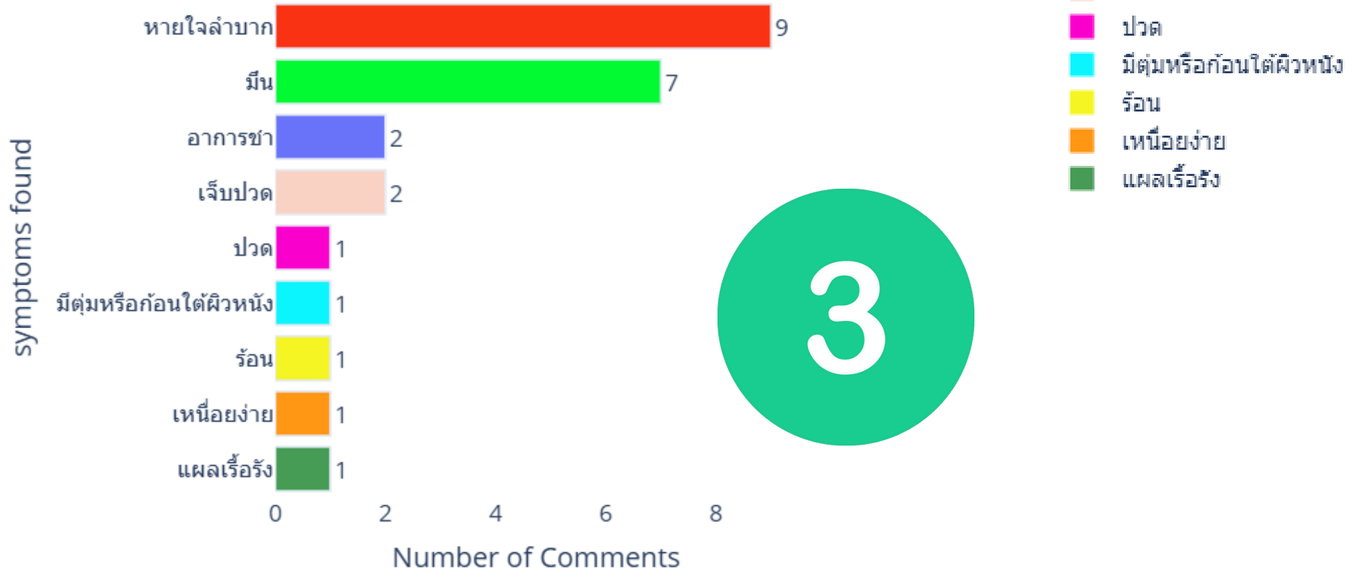

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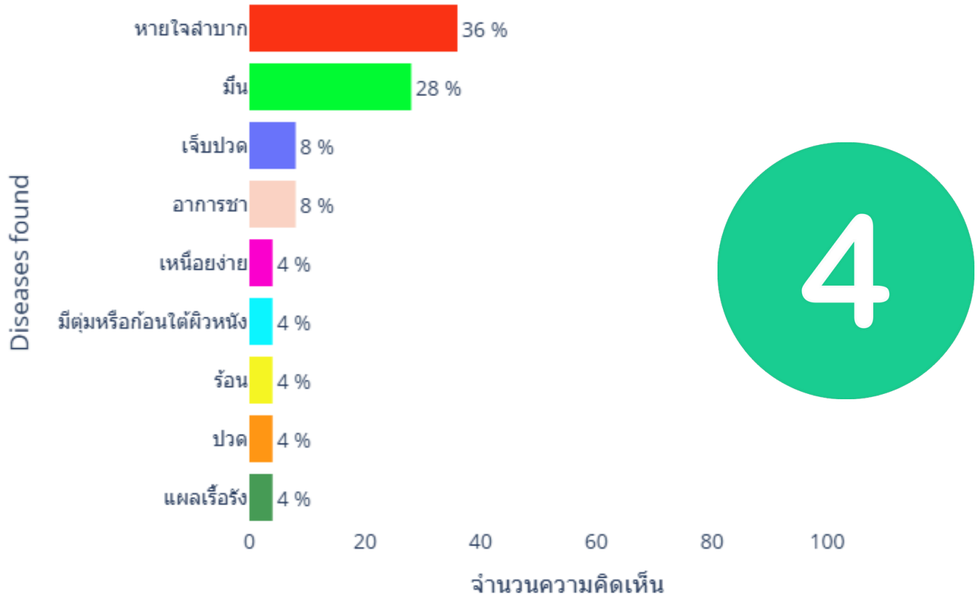

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Mentioned symptoms

Which chart type do you find most suitable for representing this variable?

Chart 1

Chart 2

Chart 3

Chart 4

Mentioned treatment

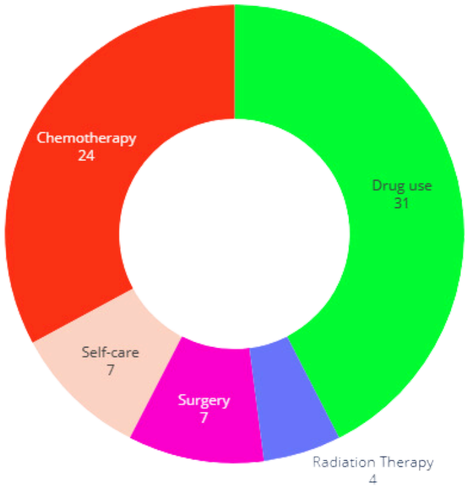
"Hello, my father has lung cancer. In the beginning, he didn’t show any symptoms at all and lived a normal life, working as a vendor selling som tam and grilled chicken. We believe the cause might be due to prolonged exposure to smoke from grilling chicken and fish. He is currently receiving treatment with chemotherapy and immunotherapy."

Result: Treatment methods mentioned include chemotherapy and immunotherapy.

Do you consider this variable to be relevant and capable of providing useful information?

Very Good | Good | Moderate | Poor | Very Poor

Mentioned treatment



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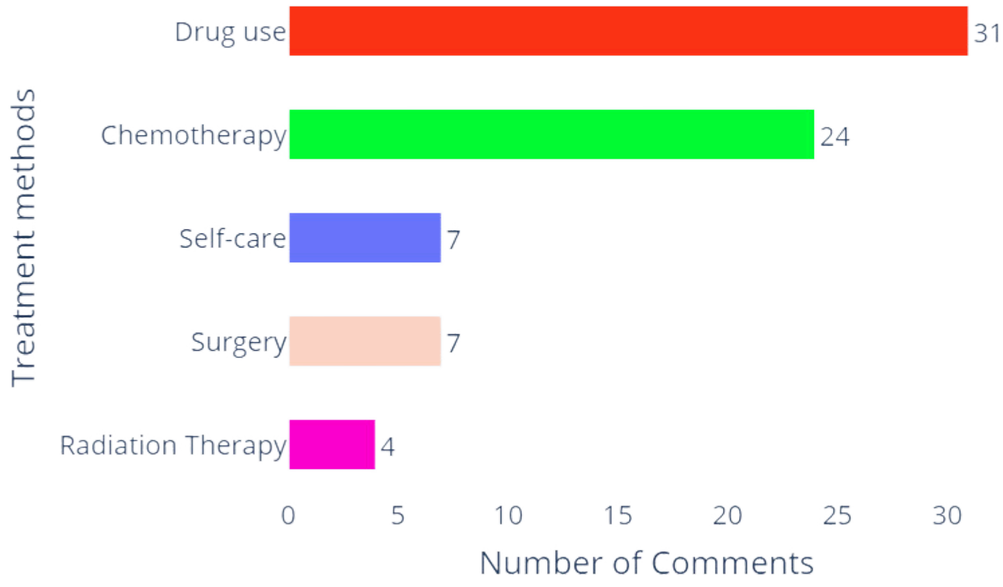

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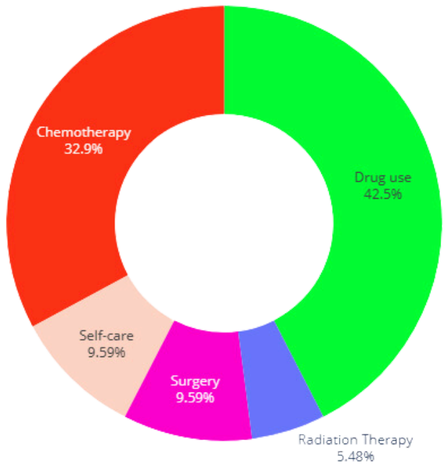

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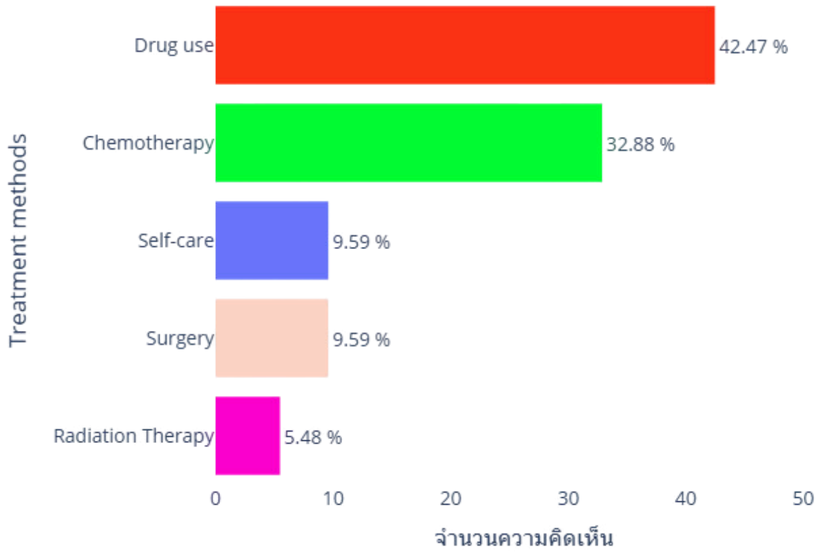

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Mentioned treatment

Which chart type do you find most suitable for representing this variable?

Chart 1

Chart 2

Chart 3

Chart 4

Mentioned causes of the disease or patient behaviors

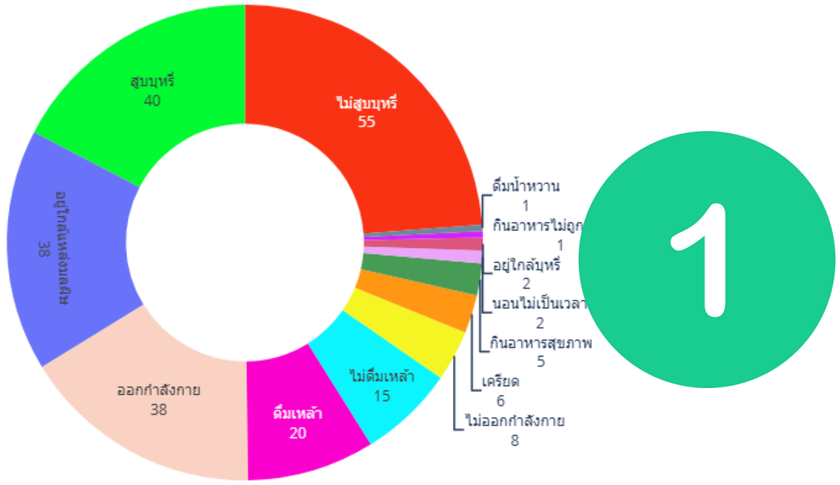
"Hello, my father has lung cancer. Initially, he had no symptoms at all and lived a normal life, working by selling food–som tam and grilled chicken. We believe the cause might be due to long-term exposure to smoke from grilling chicken and fish. He is currently being treated with chemotherapy and immunotherapy."

Result: Behavior involving prolonged exposure to pollution sources is mentioned.

Do you consider this variable to be relevant and capable of providing useful information?

Very Good | Good | Moderate | Poor | Very Poor

Mentioned causes of the disease or patient behaviors



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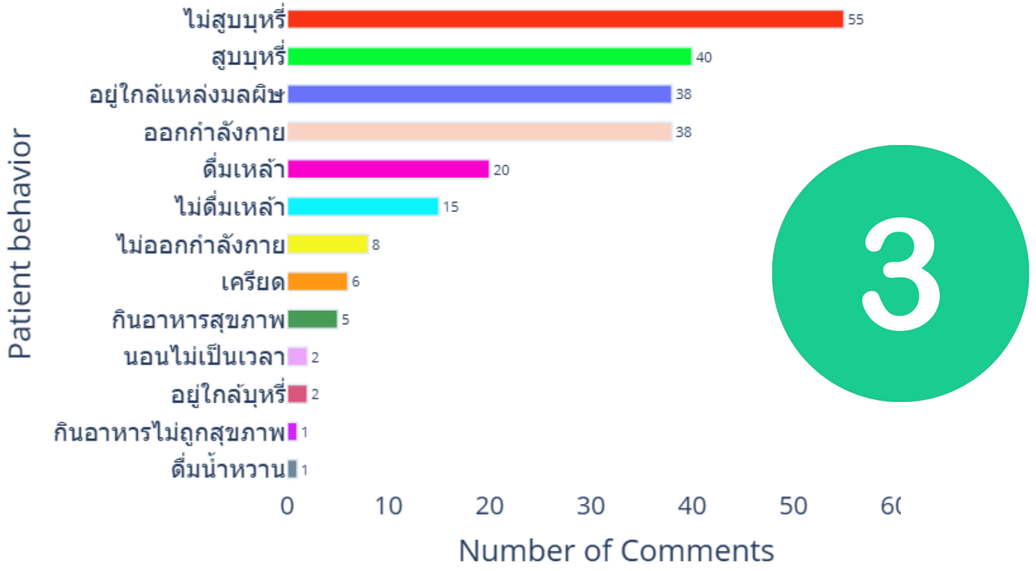

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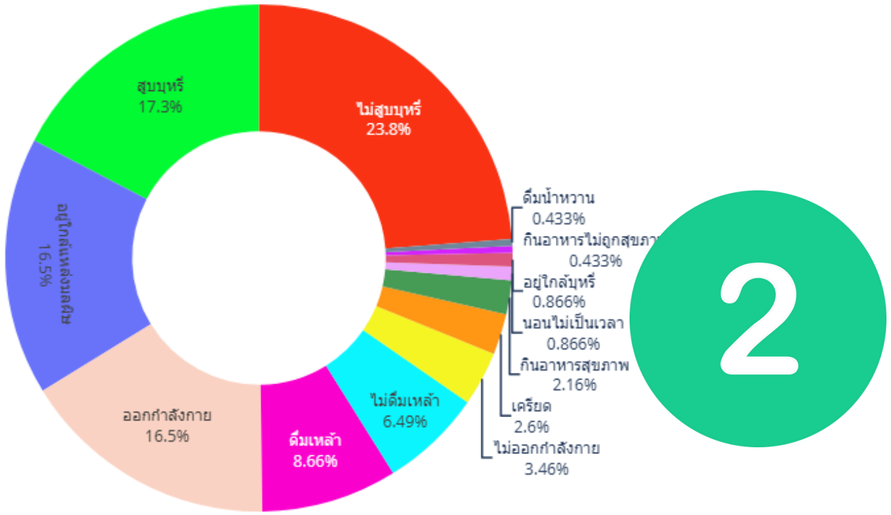

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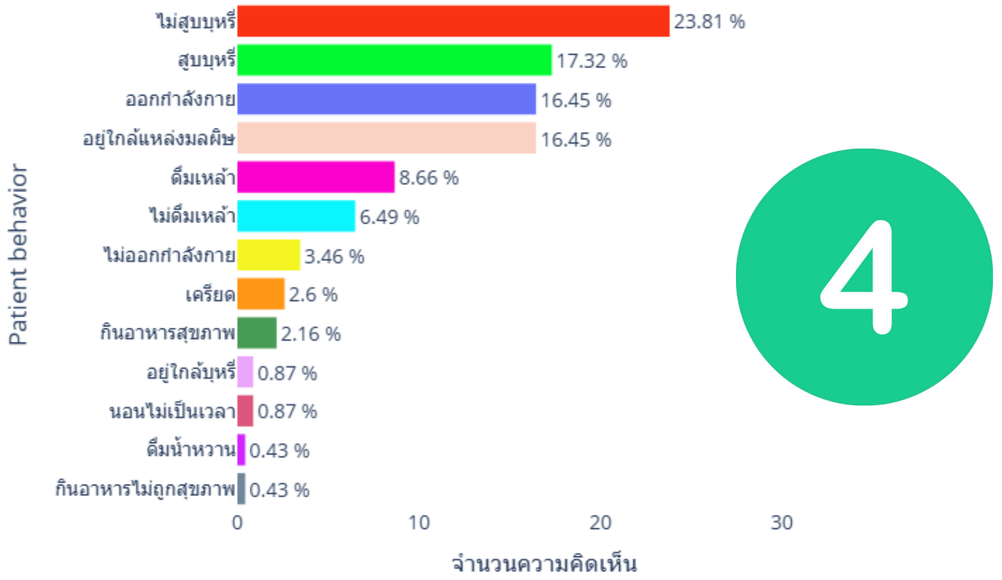

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Mentioned causes of the disease or patient behaviors

Which chart type do you find most suitable for representing this variable?

Chart 1

Chart 2

Chart 3

Chart 4

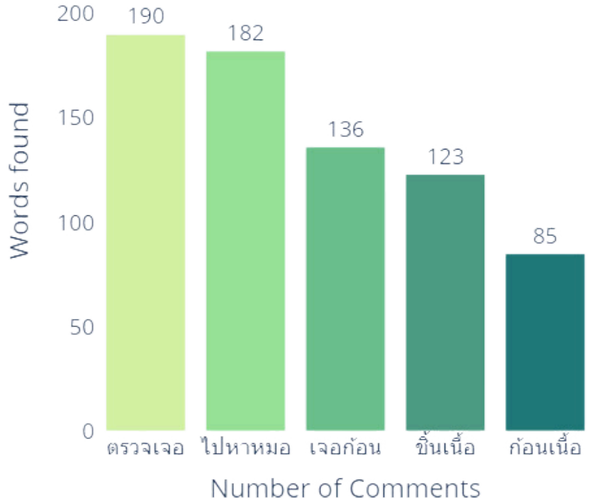
Most frequently used words across all opinions

Do you consider this variable to be relevant and capable of providing useful information?

Very Good | Good | Moderate | Poor | Very Poor

Most frequently used words across all opinions

1



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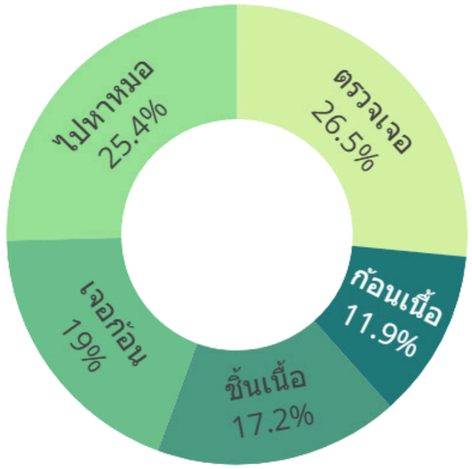

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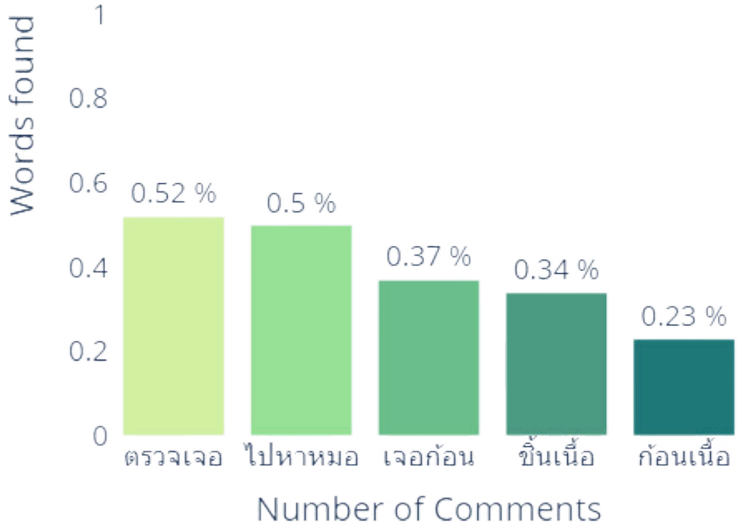

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Most frequently used words across all opinions

Which chart type do you find most suitable for representing this variable?

Chart 1

Chart 2

Chart 3

Chart 4