Nyss Platform

A community-based surveillance reporting and alert tool

CBS through Nyss

- 5 ongoing implementations:
  - **Somaliland** (birthplace of Nyss)
  - Somalia South Central region
  - Somalia Puntland
  - Senegal
  - Yemen
- More to come:
  - Burkina Faso
  - DRC
  - Mali
  - South Sudan
  - Uganda
  - Kenya
  - Americas
  - ...

CBS with Nyss in Somaliland

CBS in Somaliland – related documentation

Community Based Surveillance (CBS) – general:

[Community based surveillance – YouTube](#)

CBS in Somaliland:

- [Community based surveillance - YouTube](#)

- [Community based surveillance - in Somaliland - YouTube](#)

- [Somaliland CBS 2020 - YouTube](#)

How is CBS implemented?

- From emergency to preparedness CBS

- In 6 regions - 123 villages

  - 2018: Togdheer

  - 03/2020: Awdal, (Sahil, Sool, Sanaag, and Maroodijeh)

- 569 volunteers + 8 supervisors

- 5 CCD + activity report

  - Acute diarrheal disease (ADD)

  - Fever and rash

  - Acute malnutrition

  - Clusters of unusual illnesses or deaths

  - Cough and difficulty in breathing

MEDECINS SANS FRONTIERES
DOCTORS WITHOUT BORDERS

SCIENTIFIC DAYS
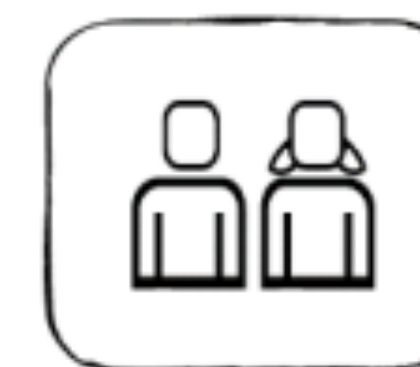
# How are the data collected?

- Since March through **nyss** platform

- Real-time reporting, management, analysis, information sharing of CBS data

- https://www.youtube.com/watch?time_continue=1&v=784IzOIkzJE&feature=emb_logo

- Digit-codes SMS: e.g., health risk#sex#age

- Located automatically through registered volunteer (phone number)
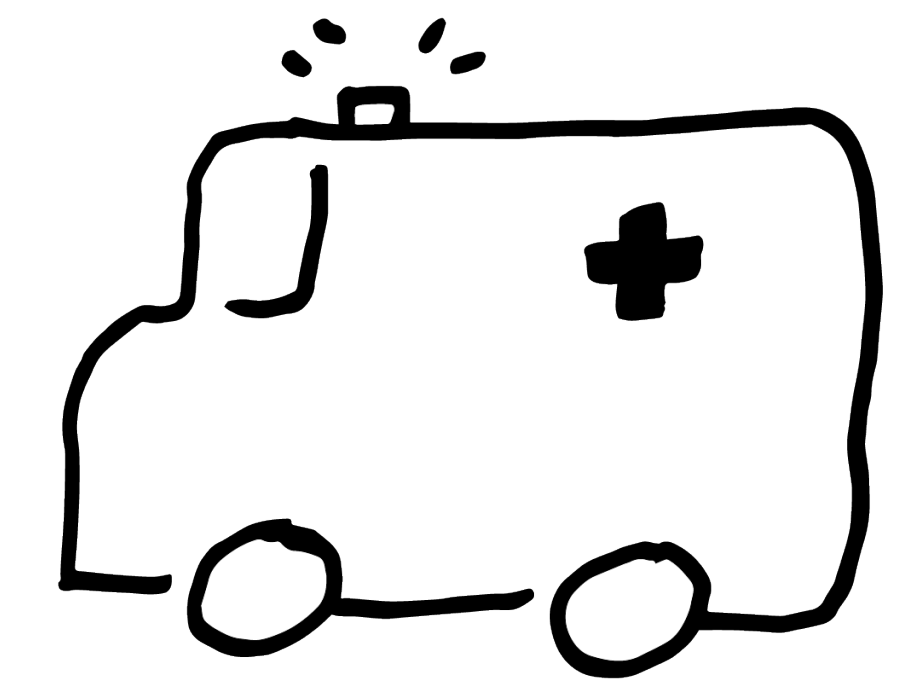
MEDECINS SANS FRONTIERES
DOCTORS WITHOUT BORDERS
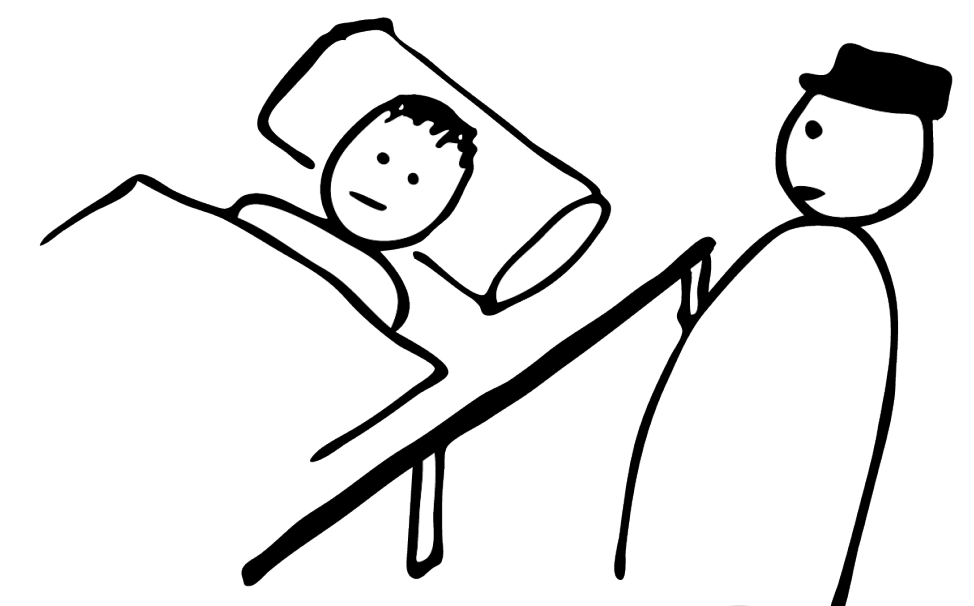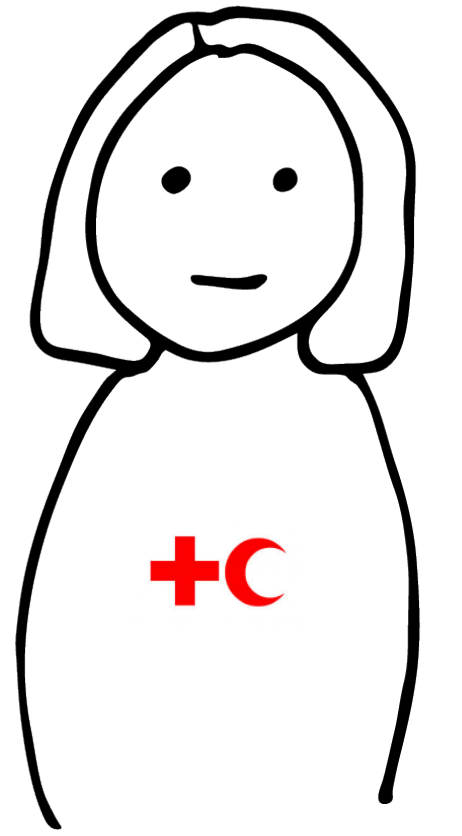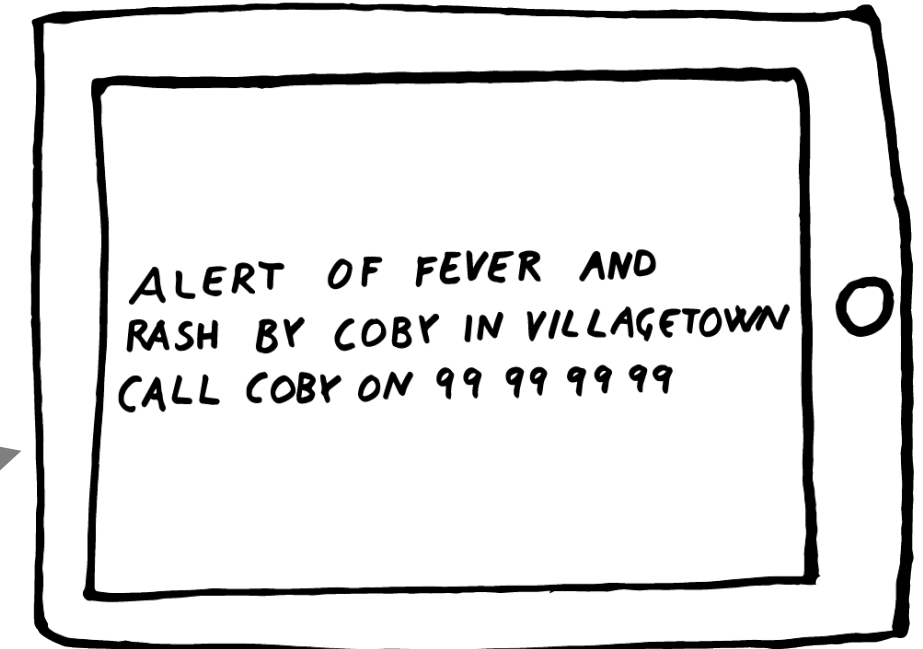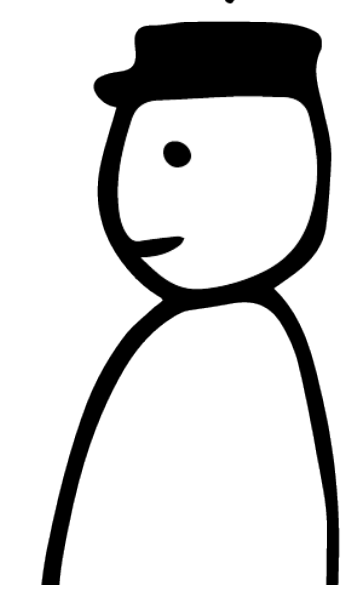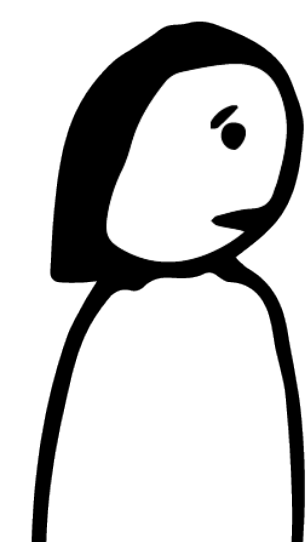
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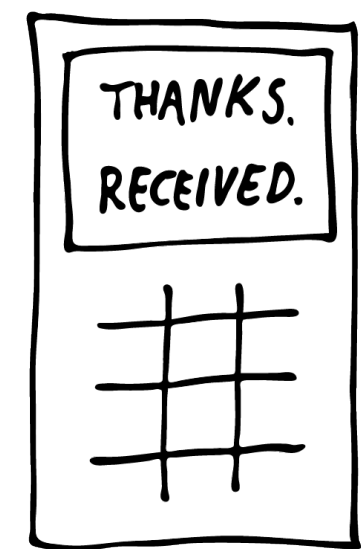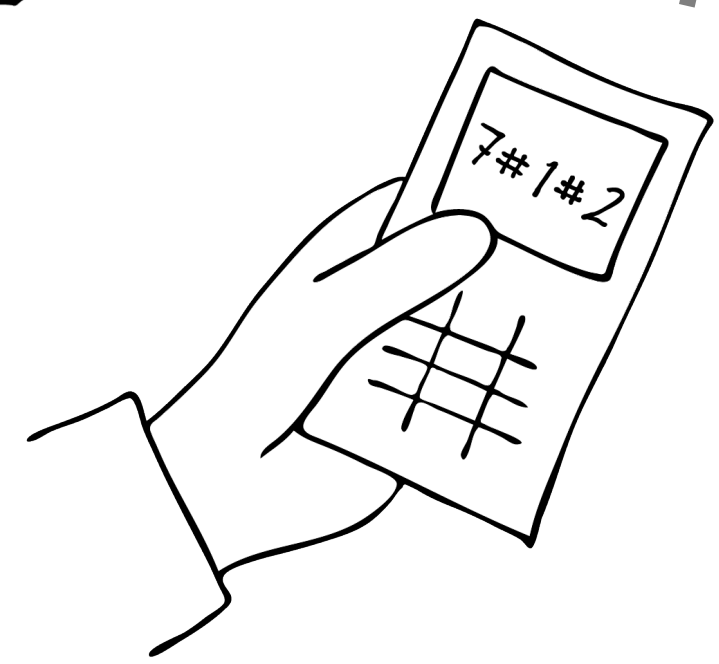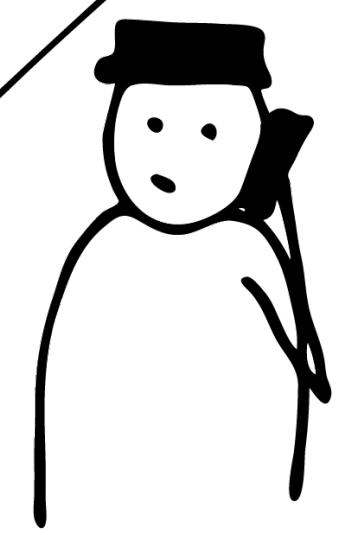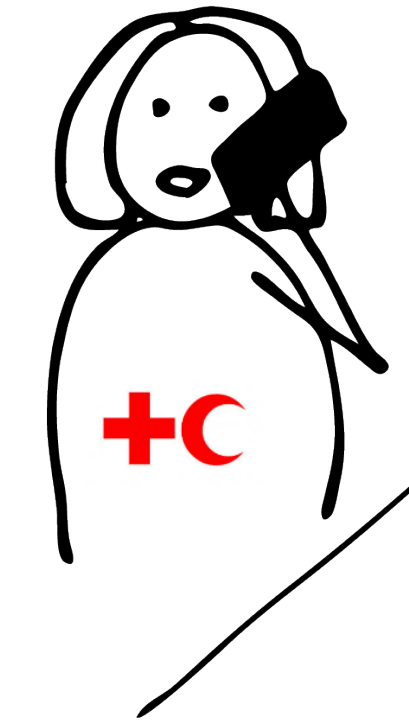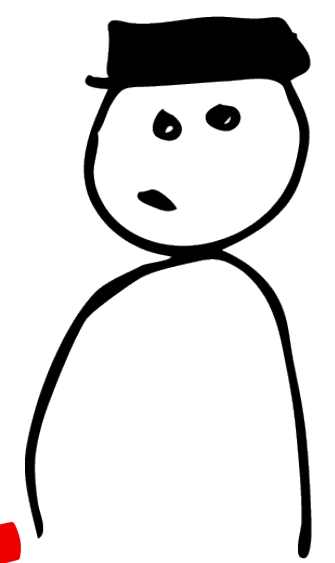
What has been reported in Nyss – end 03/2021

- 1420 health risk/event reports in total from all regions

- 215 alerts escalated in the platform
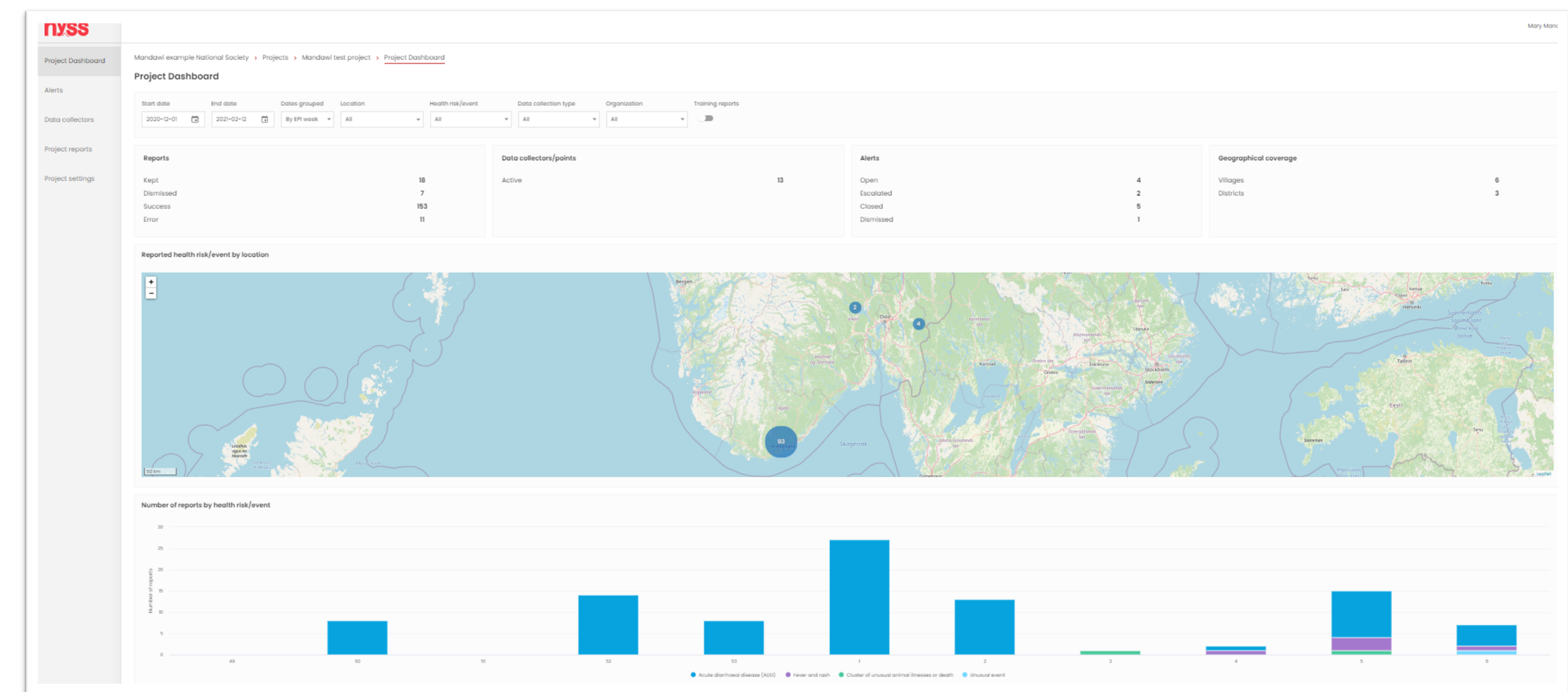
CBS results – Nyss data analysis for Togdheer region/2020

➡ 794 reports on health risks sent to Nyss

Acute diarrhoeal disease (ADD)

43.20% (343)

3.90% (31)

Fever and rash

5.92% (47)

1.76% (14)

Cough and difficulty breathing

45.21% (359)

Cluster of unusual illnesses or deaths in people

Acute malnutrition

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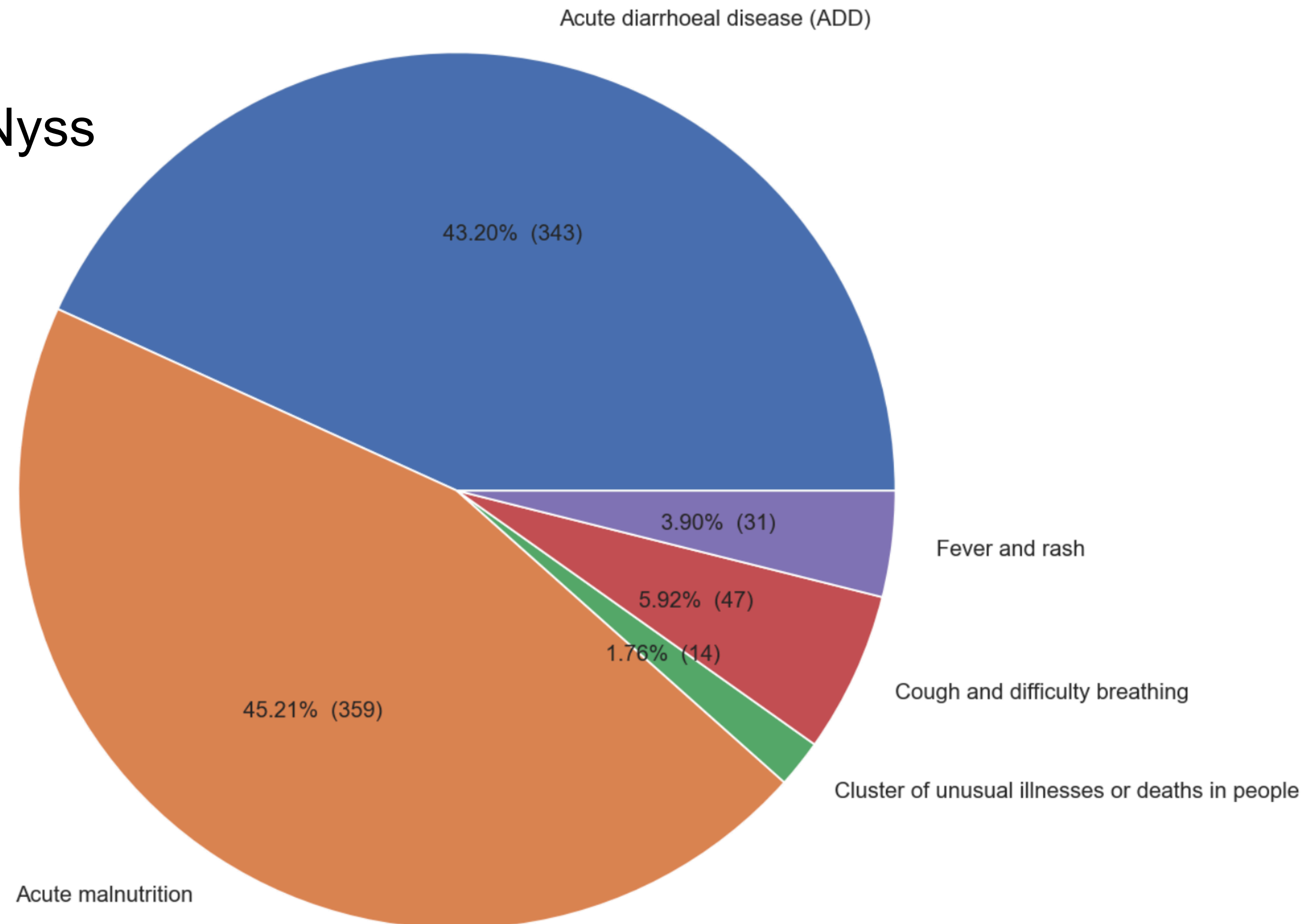
96 alerts generated
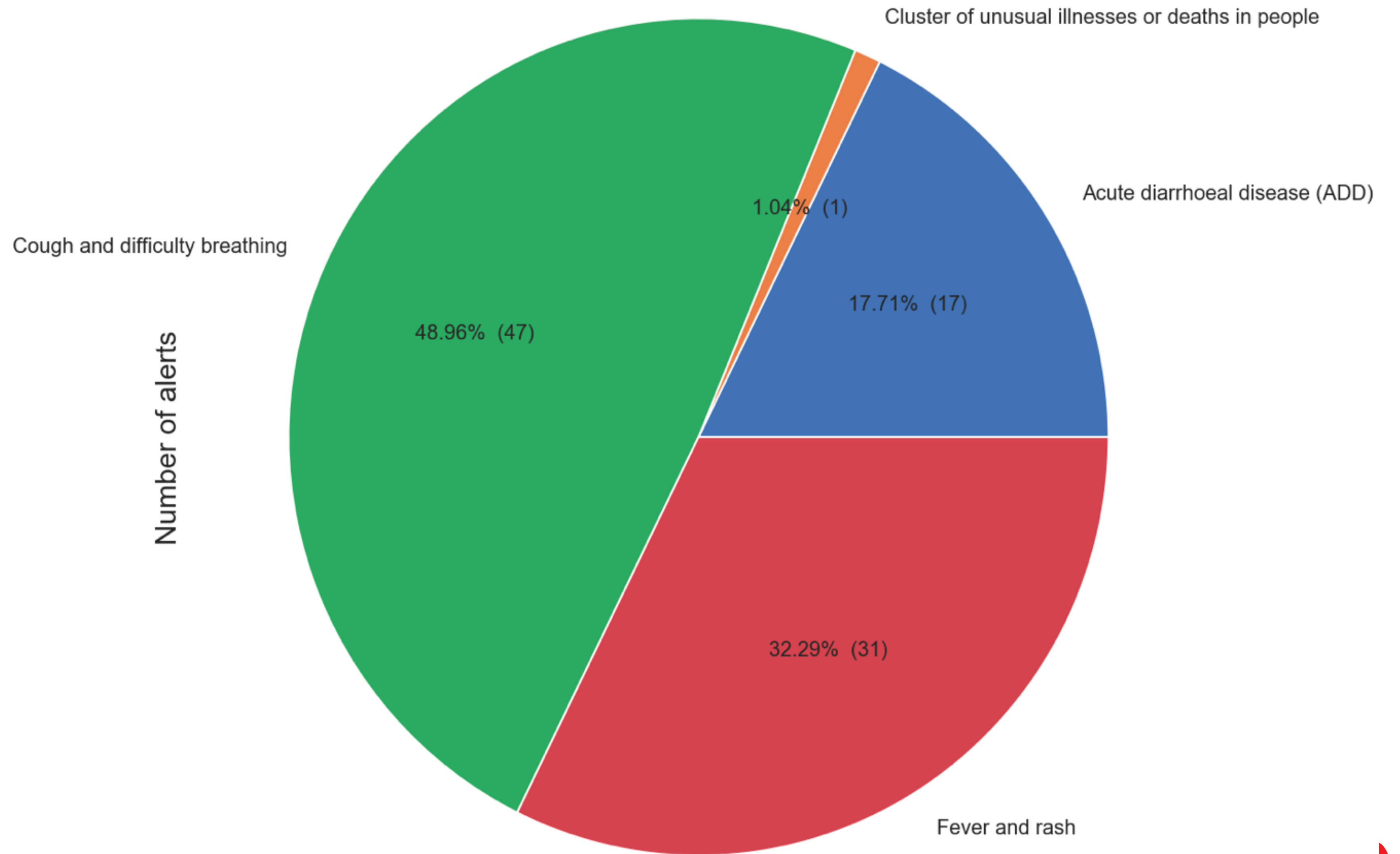
Timeliness – of Verification (documented in Nyss)

- Min: 30 sec; Max: 2 mo (68 days)

- Mean: 2 days 21h

- Median: 1h 20min

- 62.5% within 6h

Time interval from alert trigger to either escalation or dismissal

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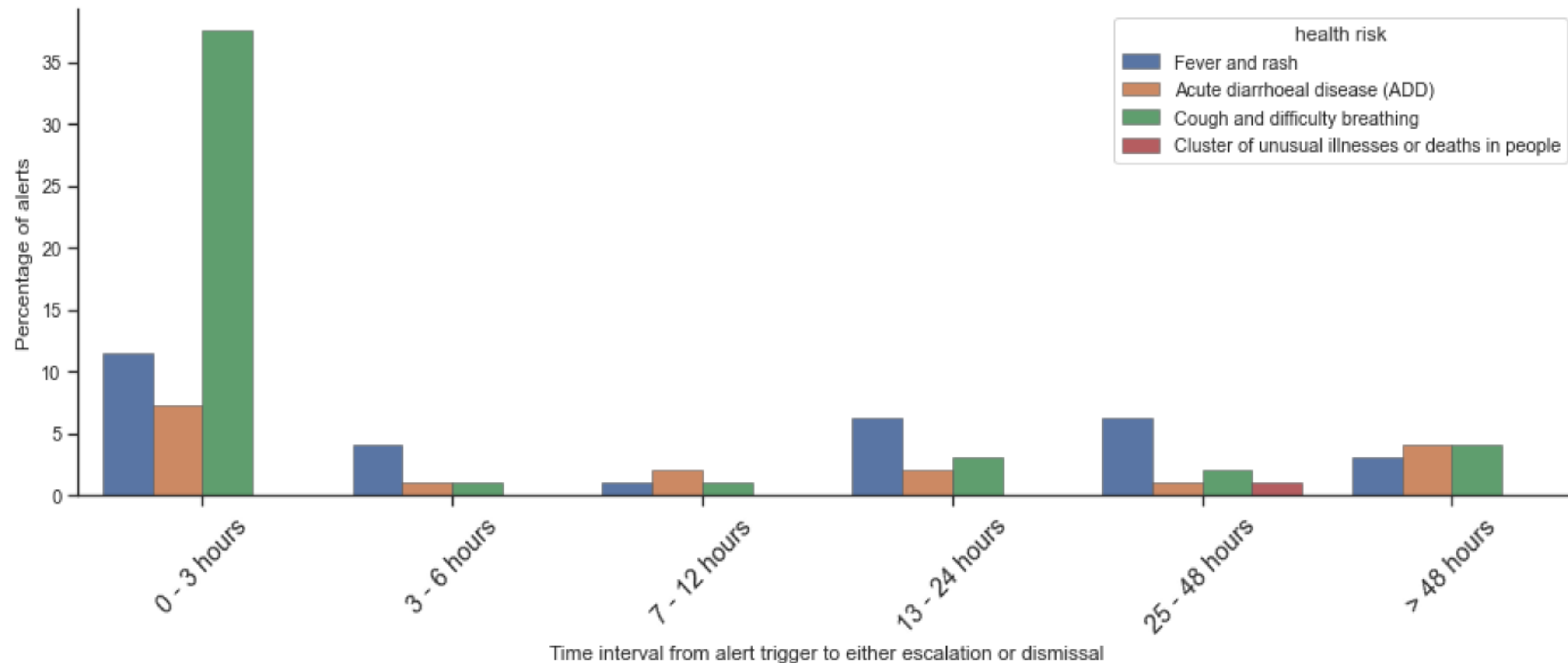
Effectiveness – Outcome of escalation (documented in Nyss)

- 83% (n=80) alerts escalated

- 81% (n=65) with documented outcome

- 9% (n=6) "Authorities have dismissed"

- 91% (n=59) "Authorities have taken action"

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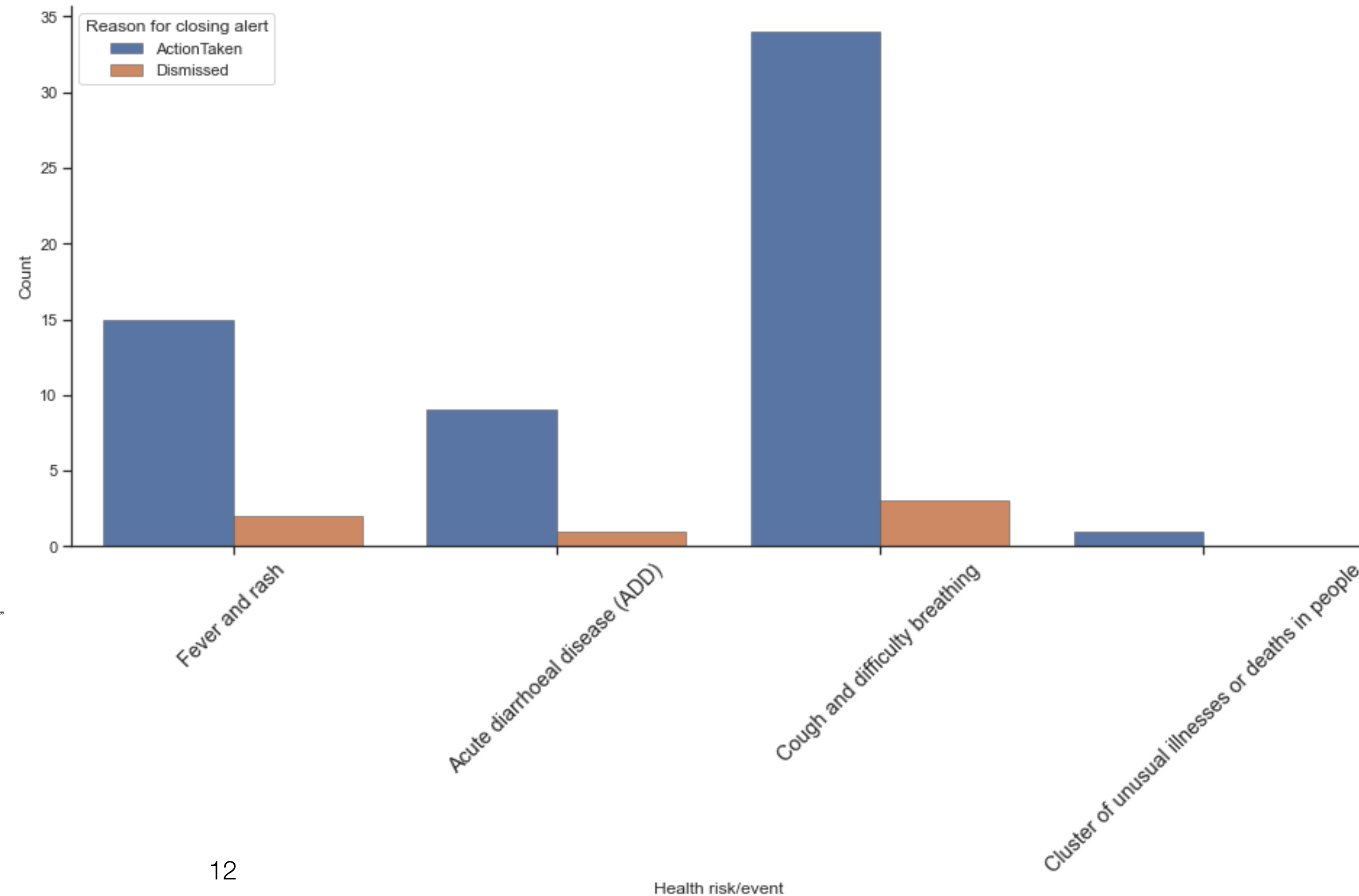
Detecting the 1st Covid-19 case

March 8th

TRAINING

131 SRCS CBS volunteers were trained on symptoms of Covid-19 and asked to report to the Nyss platform

March 26th, 6 pm

SMS REPORT

The volunteer visited the person and confirmed that the symptoms matched Covid-19 and sent an SMS report to the Nyss platform

March 26th, 6 pm

ESCALATE

The supervisor escalated the alert to the Ministry of Health, meanwhile the volunteer provided key health messages to the community

March 31st

CASE CONFIRMED

Following the investigation, the MoH confirmed that the person tested positive for Covid-19

March 26th, 6 pm

DETECT

An SRCS volunteer detected that a person in her community was unwell with cough, fever and difficulties when breathing

March 26th, 6 pm

ALERT

Nyss immediately triggered an alert to the SRCS supervisor, who cross-checked the information with the volunteer

March 26th, 8 pm

RESPONSE

The Ministry of Health went to the village to investigate. The person was asked to self-isolate at home. The person had recently travelled abroad and was tested for Covid-19 early the next day

SHOULD I REPORT THIS?

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NTIFIC DAYS

Benefits of CBS
– Voices from the field: Community leaders

- *It [CBS] is good for prevention of diseases, improve hygiene and health in the community and the most important thing is for early detection of diseases in the community and early response…to respond with help of Ministry of Health Development."* (Community leader 9)

- *"Yes, it has benefitted the community because of awareness raising, everything is targeted for awareness raising produces benefit…The volunteers everyday they are looking at the community's health and if they see some one who is sick then they report to Red Crescent."* (Community leader 2)

- *"…yes the community benefitted from CBS, because they received a health related information that was not available before…whenever they feel sick they get the information and simply know the health centres to go for treatment, and who will help them, and that there are other people who want to improve the health of the community."* (Community leader 3)

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SCIENTIFIC DAYS

Benefits of CBS
– Voices from the field: Health authorities

- *"Ok, yes it has benefits for the community, particularly those who live in the remote villages, it also has benefits at district level and regional level as well and finally at national level. It has specific benefit for the community while it has benefits upstream. The most visible benefit is for example what we are working on are the communicable diseases that spread rapidly, so in order to get an early warning it is a benefit and when the existence of an outbreak is known, there is an appropriate response which is speedy before the disease spreads to other parts, the disease is put under control as early as possible that is a major benefit. Other benefit is community mobilization, because the volunteers provide awareness raising sessions to the community on how to promote the sanitation and other similar issues including the causes of illnesses, that is another benefit because it is a prevention of disease outbreaks."* (Government rep 1)

- *"It has good benefits for the community, including finding out the diseases that are prevalent within the community, previously the prevalence of diseases was not known. Now if a watery diarhoea disease breaks out, it will be seen on the reports that there is an outbreak, then the Ministry of health will respond to the outbreak on time and services provided to the community…"* (Government rep 2)

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SCIENTIFIC DAYS

Way forward

- Better documentation of CBS processes and outcomes

- Further evaluations on functionality and effectiveness

- Adjustments in reporting, human resources set up, and documentation

- Extension to other locations

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Contact us

- HQ level Norwegian Red Cross / Nyss support:

  - nyss@redcross.no

  - Dr. Amrish Y. Baidjoe

    - Team lead Public Health and Surveillance

    - amrish.baidjoe@redcross.no

- Presentation/CBS projects

  - Julia Jung

    - Regional CBS delegate

    - Julia.jung@redcross.no