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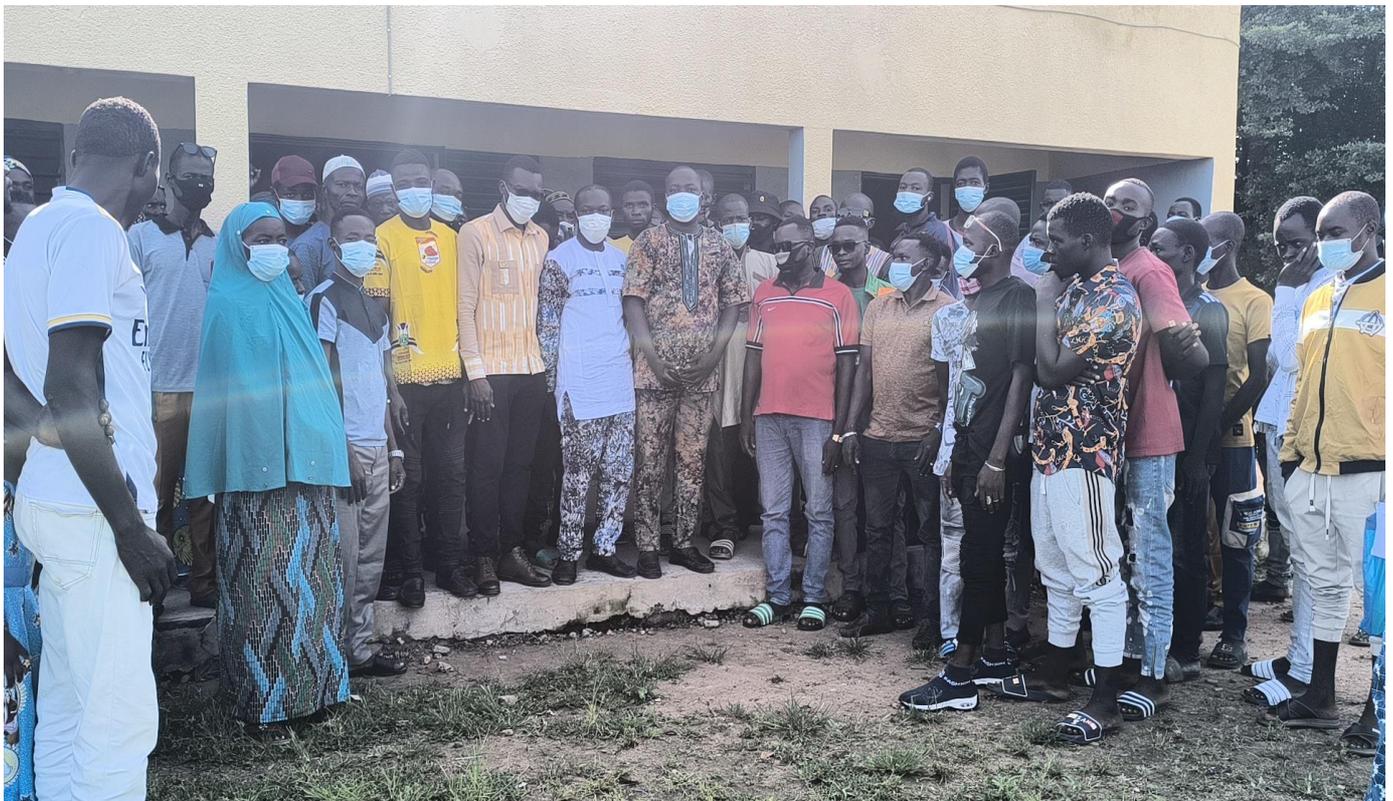
BURKINA FASO

Unity-Progress-Justice

WORLD LUNG DAY 2024

COMMUNITY PNEUMOLOGY DAY:

*Pulmonological Consultation and Exploration of the
Respiratory Function of Chronic Coughers in
Gonboussougou, South-Central Region (Burkina Faso)*



REPORT

September, 2024

ACTIVITY SUMMARY

Community Pulmonology Day was held within the Gonboussougou medical center in the Center-South region, for people with chronic cough in the community of Gonboussougou with the following on the program: ***“Pulmonological consultation and Exploration of Respiratory Function”***. The activity is part of the World Lung Day celebrated annually on **September 25th** to raise awareness and advocate for improved care for respiratory diseases worldwide. The main objective of this activity is to contribute to providing solutions to respiratory health problems in the commune of Gonboussougou.

I. CONTEXT AND JUSTIFICATION

Gonboussougou is a rural commune in the province of Zoundwéogo, located 144 km from Ouagadougou (the capital of Burkina Faso) and the primary source of income for the local population is gold panning. In 2023, the Gonboussougou Medical Center recorded 2,216 consultations between January and November 2023, of which more than 10% were for respiratory pathologies. Following a rumor reporting numerous cases of coughing in the commune, a survey identified 334 cases of coughing, 71% of which were gold panners.

Respiratory diseases are very often underestimated in rural populations, especially persons exposed to dangerous working conditions and people with extremely limited access to specialized care. Indeed, Burkina Faso has only thirty-three pulmonologists for a population estimated at 23 million inhabitants.

The organization of this activity is therefore of capital importance for this municipality and is in line with the objective of the PATS Initiative which is to raise awareness and advocate for better lung health in Africa in general and in Burkina Faso specifically.

II. COURSE OF THE DAY

❖ Preparatory activities

- Gonboussougou being made up of 29 villages, so that the information could reach the target of the activity, a town crier per village had the task of passing on the information on the holding of the said day with the details relating to it. The information was conveyed 3 days before the D-day as well as on the morning of September 25th;
- Local radio was also involved in disseminating information;
- The approval and support of the administrative authorities of the municipality was obtained;
- A meeting was organized by the Chief Medical Officer of the Manga health district, which covers the municipality, to inform all stakeholders of the day's holding;

- Gonboussougou, being located 144 km from the capital Ouagadougou where more than half of the team is located, the latter made a trip the day before to reach the town of Manga (located 44 km from Gonboussougou) where they spent the night.

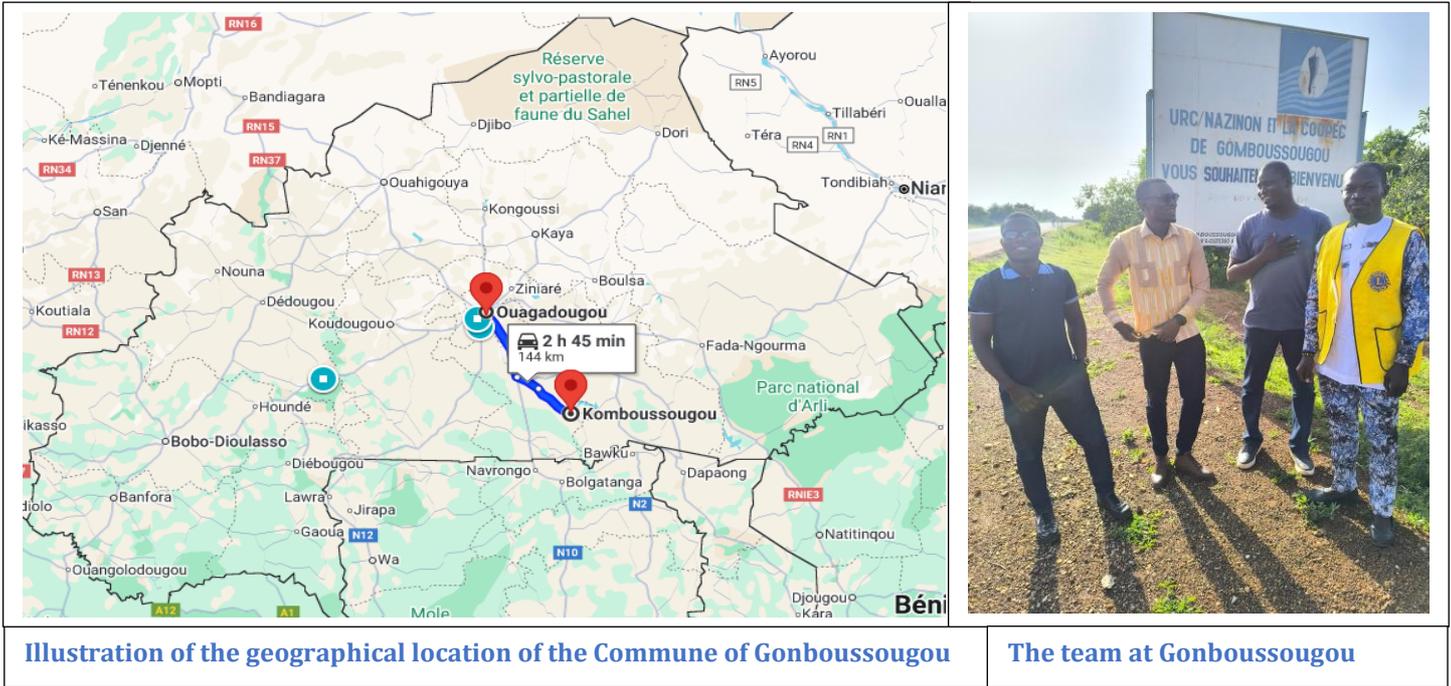


Illustration of the geographical location of the Commune of Gonboussougou

The team at Gonboussougou

❖ **D-Day Activity : September 25th**

On September 25th (World Lung Day), the team made up of 3 respiratory specialists, 3 general practitioners, 2 nurses and 2 ambulance drivers left at 6:30 a.m. to reach the Gonboussougou Medical Center where 2 general practitioners and 3 nurses were waiting for them for the start of the activity.

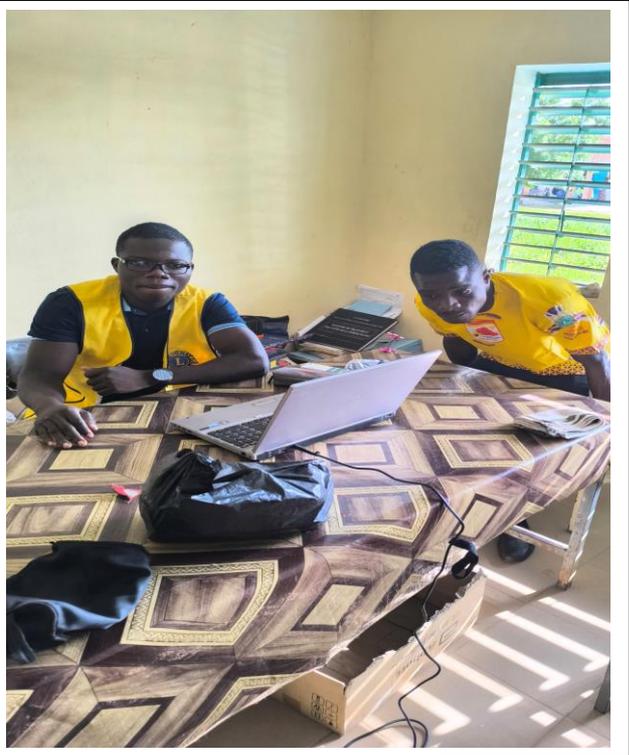
The activity began at 8:30 am after the training of the different teams and the setting up of the entire system, with an opening speech by Mr Pangassu GNINKAN (President of the special delegation of the Commune of Gonboussougou), who wanted to thank the partners who made this day possible. He will be the first to symbolically benefit from spirometry.

Two outdoor sorting stations were set up, responsible for collecting socio-demographic information, medical history, and assessment of the nutritional status of the participants.

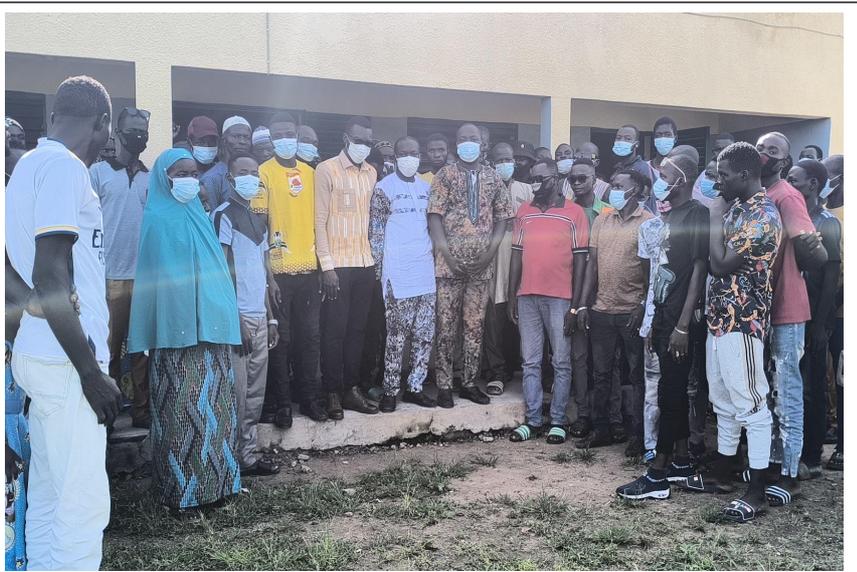
Two rooms were set up for the physical examination of the participants and three rooms for conducting spirometry and broncho reversibility tests.

A perimeter was set up for conducting the 6-minute walking test.

Patients were seen in order of arrival, with priority given to the elderly, following a circuit that that included sorting stations, physical examinations, and respiratory function test.



Installation of equipment and teams

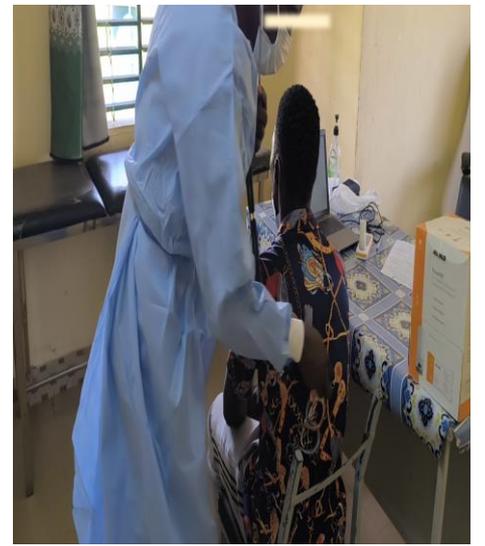


Launch speech, from left to right : Dr Josué P SIA (Health District Representative), Dr Ragnagnwendé M. I. Tanguy NIKIEMA (Activity Coordinator) and M^r Pangassu GNINKAN (President of the special delegation)

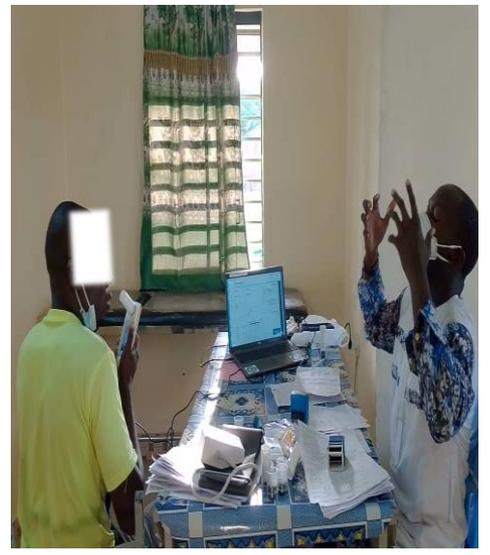
Picture after the start of the day



View of outdoor sorting stations



Physical exam of participants



Spirometry and reversibility test sessions



6-Minute Walk Test Sessions

III. Results

- ❖ Out of a total of 127 participants received, there were 12.59% women, 66.92% gold miners, the youngest participant was 10 years and the oldest 79 years.
- ❖ Six participants did not receive a respiratory function test due to pulmonary tuberculosis during treatment and one participant due to acute respiratory distress.
- ❖ A total of 120 spirometry tests, 120 reversibility tests and 30 6-minute walking tests were performed : only 10.00% of spirometries were normal.
- ❖ Patients with respiratory function disorders received advice, a medical prescription (for those who were eligible at the end of the consultation) and got a pulmonology follow-up appointment at the Manga Regional Hospital Center.
- ❖ The 127 participants received a nutritional assessment and nutritional advice.
- ❖ Three (3) general practitioners and a nurse from the Manga health district were able to perform spirometry, the reversibility test and the 6-minute walk test. This transfer of knowledge will make it possible to consider conducting respiratory function tests in the region.



IV. DIFFICULTIES AND STRENGTHS

The number of participants expected was about 300 coughers but we actually received 130 participants, a rate of 43.33%. This could be explained by the fact that out of the 300 coughers expected, some would have returned to their country of immigration to continue the gold panning activity, according to the medical center team, deaths would have been recorded among this population of coughers and some no longer having a cough would not have shown up on the day of the activity.

Despite this insufficiency, the activity was a great success, because having started out as a simple screening for respiratory function disorders, it turned into a more important activity with:

- Pulmonary consultation,
- Exploration of respiratory function,
- Nutritional assessment and advice,
- Transfer of knowledge to carry out respiratory functional explorations,
- Planning of pulmonary follow-up of participants.

CONCLUSION

Community Pulmonology Day: ***Pulmonological Consultation and Exploration of Respiratory Function*** for chronic coughers in the commune of Gonboussougou was a success. The added value of this day is that it generated the commitment of the health and administrative authorities of the commune and allowed a transfer of skills and pneumological follow-up at the Manga Regional Hospital Center for the participants.

THANKS

Pan African Thoracic Society (PATS)

Burkinabe Society of Pulmonology (SOBUP)

Manga Health District

DOVE communication

All persons having enabled the carrying out of this activity

Lions Club Ouagadougou KENEYA

Manga Regional Hospital Center

Health and Vision Plus Association

Barka, Anitché, Thanks, Merci



Ouagadougou, September 25, 2024

The rapporteur

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APPENDIX

- Financial report
- Invoice of small equipment