

Questionnaire

I. Information Sheet (English Version)

Title: Risk factors of pulmonary tuberculosis among cattle owner tuberculosis patients attending governmental health facilities in Gondar town, Northwest, Ethiopia.

Good morning/good afternoon! My name is Abebaw Getachew. I am graduate student in Master of Public Health in Veterinary Public Health at University of Gondar, Institute of Public Health and now am conducting study in this institution to assess factors for pulmonary tuberculosis among tuberculosis patients owning cattle who are identified by the respective physician prior to commencing their anti-tuberculosis treatment in UoG Comprehensive-Specialized Hospital and three governmental health centers in Gondar Town, North West Ethiopia.

I believe that this study will help us to bring change in reducing the transmission of tuberculosis between cattle and their owners, and factors contributing to the occurrence of active pulmonary tuberculosis. You are selected to be one of the participants in this study and you will help us by answering the questions and give sputum sample (for PTB patients). We kindly request you to test your cattle for TB as well for this study. I ask you to participate voluntarily and that there will not be any negative consequences if you want to refuse to participate. I assure you that whatever answers you give us will be kept strictly secret. I do not need your name. I also inform that you have the full right to withdraw from the study or stop the interview and test your cattle at any time. Also you will not receive direct benefit for participating in the study but testing your cattle for TB without incurring cost. The interview takes approximately 25-30 minutes. We will come back to your home again to read the cattle test result after 72 hours of test accomplished.

Do you have any question to ask?

Are you willing to participate in this study?

Yes _____ No _____

I. Consent Form (English Version)

I, the undersigned have been informed that the purpose of this particular research is to assess factors for pulmonary tuberculosis among cattle owner tuberculosis patients attending governmental health facilities in Gondar town, Northwest, Ethiopia.

☐ I have been informed that I am going to respond to this question by answering what I know concerning the issue.

☐ I have also been informed that the information I give will be used only for the purpose of this study.

☐ My identity and the information I give will be treated confidentially.

☐ I have also been informed that I can refuse to participate in the study or not to respond to questions if I am not interested. Furthermore, I have been informed that I can stop responding to the questions at the time in the process.

Based on the above information I agree to participate in the research voluntarily with the hope of contributing to the effort of knowing the factors of pulmonary tuberculosis among cattle owners who were identified by the physician as TB positive in Gondar comprehensive specialized hospital and three governmental health centers in Gondar town, Northwest Ethiopia.

Signature: _____

Date: _____

Address of investigator

Name: Abebaw Getachew

University of Gondar MPH -Veterinary Public Health student

Tel: +251911588673 Email: abebaw80@gmail.com

And can also contact Dr. Tadesse Guadu, Department of Environmental and Occupational Health and Safety and Dr. Araya Mengistu, Department of veterinary Epidemiology and Veterinary Public Health, CVMSc, UoG.

Interviewer agreement

Hello, my name is _____ I am one of the data collectors on the study with the above topic. I would like you to cooperate in answering the questions that follow. You have the right to refuse if you don't want to participate at any time.

I certify that I have filled this questionnaire in accordance to the training I was given.

I have checked this questionnaire and confirmed that the information in it is correct.

Name _____ Signature _____ Date _____

Supervisor's signature _____

1. Date of interview-----Interviewer's initials _____

3. Questionnaire no. _____

4. Respondents No. _____

5) Name of health facility-----

Part I: Socio-demographic characteristics

S.N	Question	Response	Code
1	Age	_____ years old	
2	Sex	☐ Male ☐ Female	
3	Residence	☐ Urban ☐ Rural	
4	Marital status	☐ Married ☐ Single ☐ Cohabiting ☐ Divorce ☐ Widow	
5	Educational status of the case	☐ No formal education ☐ Primary school ☐ Secondary school ☐ College and above	
6	Number of family	☐ male----- ☐ female----- ☐ under 5 children-----	
7	Occupation	☐ Employed ☐ Farmer ☐ Business ☐ None ☐ Others specify.....	

Part II. Questions related to animal characteristics

S/N	Questions	Response	Code
1	Animal species	☐ Cattle ☐ sheep ☐ goat ☐ poultry ☐ equine ☐ cat ☐ dog	
2	Which breed type of cattle do you own? Number--	☐ local ☐ cross ☐ exotic	
3.	Why do you rear cattle?	☐ Drafting ☐ Milk ☐ Meat ☐ Recreation ☐ All	
4	If you rear for milk, would you sell milk?	☐ Yes ☐ No	
5	If your answer is yes in number 4 who is your customer?	☐ Surrounding community ☐ Merchants ☐ Civil servants ☐ I don't know	
6.	Did your Animals graze on field?	☐ Yes ☐ No	
7.	Did you have cattle with tuberculosis?	☐ Yes ☐ No	
Part III Questions related to cattle husbandry practices			
1	Cattle farming system?	☐ Extensive ☐ Semi –intensive	
2.	Did you share house with animals?	☐ Yes ☐ No	
4.	Animal water drinking status	☐ Separated ☐ Communal	
5.	Have you mixed new cattle to the herd recently?	☐ Yes ☐ No	
6	Have you sold cattle recently?	☐ Yes ☐ No	

7	Did you sell cattle with disease?	☐ Yes ☐ No	
8	Do you have cattle with cough?	☐ Yes ☐ No	
9	Duration of coughing?	☐ 3-6 Months ☐ <6 month ☐ 6-12 month ☐ >1 year	
10	Have you tried any treatment for coughing cattle?	☐ Yes ☐ No	
	If yes, what was the result of treatment?	☐ good ☐ no change	
	Body condition of cattle?	☐ good ☐ poor ☐ unchanged	
11	Did you isolate diseased cattle from the herd?	☐ Yes ☐ No	

Part IV. Questions related to knowledge On TB

1	Have you ever heard of the illness tuberculosis?	☐ Yes ☐ No	
	If yes, what is the cause of TB?	☐ I Have no idea ☐ Air/wind ☐ Dust ☐ Other-----	
2	For how long did you live with the illness before being diagnosed as TB	☐ <6 month ☐ 6-12 month ☐ >1 year	
3.	Have you tried any traditional remedy?	☐ Yes ☐ No	
4.	Have you had any previous contact with human TB	☐ Yes ☐ No	

	person?		
5.	Which symptom of TB have you been observed/know?	☐ Persistent coughing >2 Week ☐ Night sweating ☐ Chest pain ☐ Weakness ☐ None	
6.	What would you do if you got TB positive cattle in your herd?	☐ Sell ☐ Slaughter ☐ Leave within the herd	
7.	Did you know cattle can be infected with TB?	☐ Yes ☐ No	
8	Did you think that TB can be transmitted from cattle to human?	☐ Yes ☐ No	
9	Did you think that animals can acquire TB from humans?	☐ Yes ☐ No	
	Part V: Questions on environmental and human-animal contact		
1	How many rooms do your house own?	☐ One ☐ Two ☐ Three ☐ Above three	
2	Do you have toilet?	☐ Yes ☐ No	
	If your answer is yes do your all family members use it?	☐ Yes ☐ No	
3	With which one of the following animals did you have any contact?	☐ Domestic animals ☐ Wild animals ☐ Both domestic & wild animals ☐ No contact	

	From number 8 if you had contact, in which way?	☐ Feeding ☐ Milking ☐ Herding ☐ Slaughtering ☐ Sharing the house	
5	Did you use materials in common with cattle?	☐ Yes ☐ No	
6	Did you chew tobacco and give to your cattle?	☐ Yes ☐ No	
7	Did you think tobacco could transmit TB from human to animal	☐ Yes ☐ No	
8	Did your cattle have human urine licking behavior?	☐ Yes ☐ No	
9	Did you give urine to your cattle?	☐ Yes ☐ No	
10	Did you pee on hay of cattle?	☐ Yes ☐ No	
11	Did your cattle lick your hand or head?	☐ Yes ☐ No	
12	Did you cough in house /on the feed of your cattle?	☐ Yes ☐ No	
13	In which of the following human excreta could your animal's pasture be exposed?	☐ Urine ☐ Feces ☐ Sputum ☐ All ☐ Unknown	
14	What type of milk product do you prefer to drink?	☐ Raw ☐ Sour milk(Cheese, yoghurt) ☐ Boiled milk ☐ Don't like	

	If your answer number 14 is boiled milk, what is your reason of preference for boiled milk?	☐ Fear of disease ☐ Culture ☐ For its nice taste	
Part V. Questions related to animal housing and hygiene			
S/N	Questions	Response	Code
1.	Cattle roof type	☐ tin ☐ grass ☐ open	
2.	Cattle floor type	☐ cement ☐ stone ☐ soil	
3	Cattle house air circulation	☐ Closed ☐ window ☐ opening	
4.	Frequency of cattle house cleaning?	☐ Daily ☐ 2-3 days ☐ once weekly ☐ sometimes ☐ never be cleaned	
5.	Personal hygiene status	☐ after cleaning house of cattle ☐ before cleaning house of cattle ☐ before milking ☐ after milking ☐ before/after work sometimes	
6.	Did you use disinfectants	☐ Yes ☐ No	
7.	If yes, what do you use?	☐ Water only ☐ soap ☐ other-----	

N.B: The questionnaire is adapted from earlier studies by improving their limitation to answer the current research question (14, 39).

Questionnaire (Amharic Version)

የጥናቱ መረጃ ገጽ

እንደምን ዋሉ/እንደምን አደሩ

አበባው ጌታቸው እባላለሁ። በጎንደር ዩኒቨርሲቲ ህክምናና ጤና ሳይንስ ኮሌጅ በእንስሳት-ህብረተሰብ ጤና ትምህርት ክፍል የማስተርስ ተማሪ ነኝ። በአሁኑ ሰዓት በጎንደር ከተማ የመንግስት ጤና ተቋማት በሚከታተሉ የዳልጋ ከብት ባለቤቶች መካከል ለሳንባ ቲቢ አጋላጭ ምክንያቶችን መለየት በሚል ርዕስ ላይ የመመረቁያ ጽሁፊን እየሰራሁ እገኛለሁ። እርስዎ በዚህ ጥናት ላይ ከሚሳተፉ የዳልጋ ከብት ባለቤቶች መካከል በእጣ ተመርጠዋል። ፍላጎት ካለዎት በዚህ ጥናት ላይ እንዲሳተፉና የምጠይቅዎትን ጥያቄዎች እንዲመልሱልኝ በትህትና እጠይቃለሁ። በመሳተፍዎ ምንም አይነት ቀጥተኛ ጥቅም አያገኙም፤ ጉዳትም አይገጥምዎትም። የሚመልሷቸው መልሶች በሚስጥር እንደሚጠበቁ አረጋግጥልዎታለሁ። አድራሻዎትም ሆነ ስምዎት አይጠቀስም። በማንኛውም ሰዓት ከጥናቱ ውጭ መሆን እንደሚችሉ አረጋግጣለሁ። መጠይቁ ከ25-30 ደቂቃ ሊጨርስ ይችላል። ማንኛውም አይነት ጥያቄ ካለዎት ? ለመሳተፍ ፈቃደኛ ነዎት?

አዎ.....አይደለሁም..... በጣም አመሰግናለሁ።

የፍቃደኝነት ስምምነት ውል

የጥናቱ አላማ-የሳንባ ቲቢ በሽታ በዳልጋ ከብት ባለቤቶች መካከል ያሉትን አጋላጭ ምክንያቶች ምን እንደሆኑ ማወቅ መሆኑን ተገንዝቤያለሁ። እኔ የምሰጠው ምላሽም ለጥናቱ አላማ ብቻ እንደሚውል አውቄያለሁ። ለጥናቱ አካታየን እሰጣለሁ። የዳልጋ ከብቶችም የቲቢ ምርመራ ይደረግላቸዋል። የዳ/ ከብቶችም ከመጠነኛ ቆዳ እባጭ በስተቀር ችግር እንደሌለው ተገንዝቤያለሁ። ስሜና አድራሻዬ አይጠቀስም። በተጨማሪም በጥናቱ የምሳተፈው በሙሉ ፈቃደኝነት ሆኖ በማንኛውም ሰዓት ማቋረጥ ብፈልግ እንደምችል ተረድቻለሁ። በዚህ መሰረትም በጥናቱ ለመሳተፍ ፈቃደኛ ሆኜ ይህን ቃለመጠይቅ አድርጌያለሁ።

ፊርማ.....

ቀን.....

የጥናት አድራጊው አድራሻ ስም:- አበባው ጌታቸው ስልክ:- 0911588673

የመረጃ ሰብሳቢው ስምምነት

ሰላም!እባላለሁ። ለዚህ ጥናት መረጃ ከሚሰበስቡ መካከል አንደኛው/ዋ ነኝ። ለዚህ ጥናት አስፈላጊውን መረጃ እንዲሰጡኝ እጠይቃለሁ። መረጃ መስጠት ካልፈለጉ አይገደዱም። በተሰጠኝ ስልጠና

መሰረት መረጃውን ለመለመላት ዝግጁ ነኝ።መጠይቁ የተሟላ መረጃ እንደያዘ አረጋግጣለሁ።

ስም.....ፊርማ.....ቀን.....

የተቆጣጣሪው ፊርማቀን.....

1.መጠይቁየተሞላበትቀን.....2.የተጀመረበትሰዓት..... 3.የመጠይቁ ተ.ቁ.....

4.የተሳታፊዎች ቁጥር 5.የሆስፒታሉ/የጤና ጣቢያው ስም.....

በጎንደር ከተማ የመንግስት ጤና ተቋማት በሚከታተሉ የዳልጋ ከብት ባለቤቶች መካከል የሳንባ ቲቢ በሽታ አጋላጭ ምክንያቶችን ለማጥናት የቀረበ መጠይቅ

ተ.ቁ	ሀ. የግል ሁኔታ መጠይቅ	የሚመለስ ዝርዝር መጠይቅ	መለያ
1	ዕድሜ	_____ ዓመት	
2	ጾታ	☐ ወንድ ☐ ሴት	
3	መኖሪያ	☐ ከተማ ☐ ገጠር ☐ ከተማ ዙሪያ	
4	የትዳር ሁኔታ	☐ ያገባ/ች ☐ ያላገባ/ች ☐ ሳይጋቡ የሚኖሩ ☐ የፈታ/ች ☐ የሞተበት	
5	የቲቢ ታማሚው ትምህርት ደረጃ	☐ ያልተማረ/ች ☐ የመ/ደረጃ ☐ ሁ/ደረጃ ☐ ኮሌጅናከዚያበላይ	
6	የቤተሰብ አባላት ብዛት	☐ ወንድ----- ☐ ሴት----- ☐ ዕድሜያቸው ከ 5 ዓመት በታች-----	
7	የስራ ሁኔታ	☐ ተቀጣሪ ☐ ግብርና ☐ ነጋዴ ☐ ስራ ዓጥ ☐ ሌላ.....	
ለ	የእንስሳት መረጃ	የሚመለስ ዝርዝር መጠይቅ	
1.	ያሉወት የእንስሳት አይነት	☐ ዳልጋ ከብት ☐ በግ ☐ ፍየል ☐ ዶሮ ☐ ጋማ ከብት ☐ ድመት ☐ ዉሻ	
2.	የእንስሳት ዝርያ በቁጥር	☐ የሀገር ዉስጥ---- ☐ የዉጭ ዝርያ----- ☐ የተዳቀሉ-----	
3.	ከብቶችን የሚያረቡበት ምክንያት ምንድን ነዉ?	☐ ለእርሻ ☐ ለወተት ☐ ለስጋ ☐ ለዝና ☐ ለሁሉም	
4.	ለወተት ጥቅም ከሆነ ፤ወተቱን የሸጣሉ?	☐ እሸጣለሁ ☐ አልሸጥም	
5.	ከሸጡ ለማን?	☐ ለአካባቢው ☐ ለነጋዴ ☐ ለመንግሥት ሰራተኛ ☐ አላዉቅም	
6	ከብቶችህ መስክ ላይ ባለ ግጥሽ ያዘወትራሉ?	☐ አዎ ☐ የለም	
ተ.ቁ	ሐ. የዳልጋ ከብቶች አያያዝ ሁኔታ መጠይቅ	የሚመለስ ዝርዝር መጠይቅ	
1.	የዳልጋ ከብቶች አያያዝ/አመጋገብ	☐ ልቅ/ግጥሽ ☐ አስሮ መመገብ/ ቅለቅል	

2.	ከእንስሳት ጋር መኖሪያ ቤት ትጋራለህ/ሽ?	☐ አዎ ☐ የለም
3.	የእንስሳት ዉሃ መጠጫ ሁኔታ	☐ የተለየ ዉሃ ☐ ለሁሉም አንድ ምንጭ
4.	በቅርብ የዳልጋ ከብት ወደ መንጋዉ ቀላቅለዋል?	☐ አዎ ☐ የለም
5	በቅርብ የዳለጋ ከብት ሸጠዋል?	☐ አዎ ☐ የለም
6.	የታመመ እንስሳ ይሸጣሉ?	☐ አዎ ☐ የለም
7.	አሁን የሚስሉ ከብቶች አሉዎት?	☐ አዎ ☐ የለም መልስዎ አዎ ከሆነ :-ወንድ----- ሴት-----
8.	ሳሉ ስንት ጊዜ ቆየ?	☐ ከ3 ወር በላይ ☐ 3-6 ወራት ☐ 6-12 ወራት ☐ ከ10መት በላይ
9.	ህክምና ሞክረዋል?	☐ አዎ ☐ የለም መልስዎ አዎ ከሆነ :-የህክምናዎ ወጤት እንዴት ነበር? ☐ ጥሩ ነዉ ☐ ለዉጥ የለም
10.	የእንስሳዉ/ሶች የሰዉንት ሁኔታ እንዴት ነዉ?	☐ ጥሩ ነዉ ☐ እየከሳ/ሉ ነዉ ☐ ለዉጥ የለም
11.	የታመመ/ሙ እንስሳን/ትን ይለያሉ?	☐ አለይም ☐ እለያለሁ
12.	አሳክመዉ ባይድን/ኑ ምን ያደርጋሉ?	☐ አርደዋልሁ ☐ እሸጠዋልሁ ☐ ለሰዉ እሰጠዋለሁ ☐ ሌላ ፤ ይገለፅ-
ተ.ቁ	ሙ. የቲቢ ዕዉቀት/ታሪክ መጠይቅ	የሚመለስ ዝርዝር መጠይቅ
1.	የቲቢ በሽታን ከዚህ በፊት ያዉቁታል?	☐ አዉቃለሁ ☐ አላዉቅም
	መልስዎ አዉቃለሁ ከሆነ በሽታዉ ከየት መጣ?	☐ ሃሳብ የለኝም ☐ በንፋስ/አየር ☐ በአቧራ ☐ ሌላ፤ ይገለፅ-----
2.	ከመታዎቁ በፊት ለምን ያህል ጊዜ ቆይተዋል?	☐ ከ 6 ወራት ያነሰ ☐ 6-12 ወር ☐ ከ 1 ዓመት በላይ
3.	ለበሽታዉ ባህላዊ ህክምና ሞክረዋል?	☐ ሞክሬአለሁ ☐ አለሞክርሁም
4.	ከዚህ በፊት ከቲቢ ህሙማን ጋር ነክኪ ነበረዎት?	☐ አዎ ☐ የለም
5.	ከበሽተኛዉ የትኛዉን የቲቢ ምልክት አስተዉለዋል?	☐ ተከታታይ 2 ሳምንት የሚቆይ ሳል ☐ የሌሊት ላብ ☐ የደረት ህመም ☐ የድካም ስሜት ☐ አላስታውስም
6.	በቲቢ የተያዘ ከብት ከመነጋዎ ቢገኝ ምን ያደርጋሉ	☐ እሸጠዋለሁ ☐ አርደዋልሁ ☐ ከ መንጋዉ ጋር ይኖራል
7	ከብቶች በቲቢ እንደሚያዙ ያዉቃሉ?	☐ አዎ ☐ የለም

8	ተቢ ከከብት ወደ ሰዉ እንደሚተላለፍ ያውቃል?	☐ አዎ ☐ የለም	
9	ሰዎች ቲቢን ለእንስሳት ሊያስተላልፉ እንደሚችሉ ያውቃሉ ?	☐ አዎ ☐ የለም	
ተ.ቁ	ወ. አካባቢያዊ ሁኔታ ፣ የሰዉና የእንስሳት ንክኪ መጠይቅ	የሚመለስ ዝርዝር መጠይቅ	
1	ቤትዎ ባለ ስንት ክፍል ነዉ ?	☐ 1 ክፍል ☐ 2 ክፍል ☐ 3 ክፍል ☐ ከ 3 ክፍል በላይ	
2	መፀዳጃ ቤት አላችሁ?	☐ አዎ ☐ የለም	
3	ሁሉም የቤተሰብ አባላት ይጠቀማሉ?	☐ አዎ ☐ የለም	
4	ከየትኛዉ እንስሳ ጋር ንክኪ አለዎት?	☐ ከቤት እንስሳ ☐ ከዱር እንስሳ ☐ ከዱረና ቤት እንስሳ ☐ ንክኪ የለኝም	
	በተራ ቁጥር 4 ላይ መልስዎ አዎ ከሆነ ንክኪዉ እንዴት ተፈጠረ?	☐ እንስሳትን ስመግብ ☐ ወተት አልባለሁ ☐ እንስሳቱን ስንከባከብ ☐ እረድ ሲፈጸም ☐ መኖሪያ ቤት በመጋራት	
5	ቁሳቁሶችን በጋራ ይጠቀማሉ?	☐ እጠቀማለሁ ☐ አለጠቀምም	
6	ለከብቶች አኝከዉ መድሃኒት በአፋቸዉ ይሰጣሉ?	☐ እሰጣልሁ ☐ አልሰጥም	
7	መድሃኒት አኝኮ መስጠት ቲቢን ያስተላልፋል ብለዉ ያስባሉ?	☐ አዎ ☐ የለም	
8	ከብቶችዎ የሰዉ ሽንት የመላስ በህረ አላቸዉ?	☐ አላቸዉ ☐ የላቸዉም	
9	እርስዎ ለከብቶች ሽንትዎን ይሰጣሉ?	☐ እሰጣልሁ ☐ አልሰጥም	
10	እርስዎ ገለባ /ድርቆሽ ላይ ሽንትዎን ይሸናሉ?	☐ እሸናልሁ ☐ አልሸናም	
10	ከብቶችዎ እጅዎን/ እራስዎን ይልሳሉ?	☐ ይልሳሉ ☐ አይልሱም	
11	አክታዎን ቤት ዉስጥ/ከእ/መኖ ላይ ይተፋሉ?	☐ እተፋልሁ ☐ አለተፋም	
12	በምን መንገድ የ ከብት መኖ ሊበከል ይችላል?	☐ ሽንት ☐ ሰገራ/አይነምድር ☐ አክታ ☐ ሌሎች..... ☐ ሁሉም	
13	ከወተትዉጤቶች ለመግብነት የቱን ይመርጣሉ?	☐ ጥሬ ወተት ☐ እርጎ ☐ አይብ ☐ የፈላ ወተት ☐ አልወድም	

14	ምርጫዎ የፈለ ወተት ከሆነ ፤ ለምን?		☐ በሽታን ሰለምፈራ ☐ ልማድ ሰለሆነ ☐ ስለሚጣፈጥ
ተ.ቁ	ረ.የክብቶች ማደረጃና ንፅህና ሁኔታ መጠይ	የሚመለስ ዝርዝር መጠይቅ	
1.	የክብቶች ቤት ወይም በረት ጣራ		☐ ቆረቆሮ ☐ የሳር ጎጆ ☐ ክፍት
2.	ወለሉ	☐ ስሚንቶ ☐ ድንጋይ ☐ አፍር	
3.	የቤቱ አየር ዝግጠር	☐ ዝግ ☐ መሰከት/ወንፊት ☐ ቀዳዳ	
4.	ቤታቸውን /በረታቸውን ማፅዳት	☐ በየቀኑ ☐ በ 2-3 ቀናት ☐ በሳምንት 1 ጊዜ ☐ አልፎ አልፎ ☐ አይፀዳም	
5.	የግል ንፅህና አጠባብቅ	☐ ቤታቸውን /በረታቸውን ካፀዳሁ ብሁላ መታጠብ ☐ ከማልብ በፊት መታጠብ ☐ ካለቡ በኋላ መታጠብ ☐ ከስራ በፊት/በኋላ አለፎ አልፎ መታጠብ	
6.	ማፅጃዎችን ይጠቀማሉ?	☐ እጠቀማልሁ ☐ አልጠቀምም	
7.	ማፅጃ ከተጠቀሙ ምን ይጠቀማሉ?	☐ ወሃ ብቻ ☐ ሳሙና ☐ ሌሎች -----	