

**ICMR – REGIONAL MEDICAL RESEARCH CENTRE BHUBANESWAR**

One Health strategy for elimination of human anthrax from endemic district of Odisha: a demonstration project

**BASELINE QUESTIONNAIRE**

<b>Socio-Demographic Characteristics</b>			
Q1	Name of Interviewer-		
Q2	Name of Interviewee-		
Q3	Date/Time:		
Q4	Age:		
Q5	Gender:	1. Male 2. Female 3. Others	
Q6	Block:		
Q7	Town /Village:		
Q8	GIS:		
Q9	Marital status:	1. Single 2. Married 3. Divorced 4. Widowed 5. Separated	
Q10	No. of members in family:	-----	
Q11	Type of family:	1. Joint 2. Nuclear	
Q12	Religion: <i>INTERVIEWER: allow the respondent to reply without reading categories. Clarify as needed. Only one option allowed</i>	1. Hindu; 2. Muslim; 3. Christian; 4. Sikh; 5. Others(specify)	
Q13	Caste:	1. SC 2. ST 3. OBC 4. General	
Q14	Educational qualification:	Years of schooling-----	
Q15	Occupation:	1. Unemployed 2. Government Service 3. Private Service 4. Housewife 5. Agriculture 6. Business 7. Daily labor 8. Others (Specify)	
Q16	What is the annual income of family?	Income in Rs.-----	

<b>Information on domestic animal</b>			
Q17	Do you keep livestock?	1. Yes 2. No	<i>(If NO, then skip to Q48)</i>

Q18	Who deals with the livestock?	<ol style="list-style-type: none"> <li>1. Myself</li> <li>2. Wife/husband</li> <li>3. Son</li> <li>4. Daughter</li> <li>5. Son-in-law</li> <li>6. Daughter-in-law</li> <li>7. Grandchild</li> <li>8. Parent</li> <li>9. Parent-in-law</li> <li>10. Brother</li> <li>11. Sister</li> <li>12. Brother-in-law</li> <li>13. Sister-in-law</li> <li>14. Other relative</li> </ol>	
Q19	Which livestock do you have?	<ol style="list-style-type: none"> <li>1. Cow/Buffalo</li> <li>2. Goat</li> <li>3. Pig</li> <li>4. Sheep</li> <li>5. Other(specify)</li> </ol>	
Q20	What is the purpose for keeping livestock?	<ol style="list-style-type: none"> <li>1. Leather industry</li> <li>2. Wool</li> <li>3. Skinning</li> <li>4. Dairy</li> <li>5. Farming</li> <li>6. Selling meat</li> <li>7. Others (Specify)</li> </ol>	
Q21	Where do you keep your livestock at your residence?	<ol style="list-style-type: none"> <li>1. Separate animal shed</li> <li>2. Inside the house</li> <li>3. Other (specify)</li> </ol>	
Q22	Where do you take the livestock for grazing?	<ol style="list-style-type: none"> <li>1. Forest</li> <li>2. Agricultural land</li> <li>3. Grass field</li> <li>4. Buy Commercial fodder</li> <li>5. Others(specify)</li> </ol>	
Q23	How many times do you take them for grazing in a day?	<ol style="list-style-type: none"> <li>1. Once</li> <li>2. Twice</li> <li>3. Thrice</li> <li>4. Other (Specify)</li> </ol>	
Q24	How do you dispose the solid & animal waste products?	<ol style="list-style-type: none"> <li>1. Dispose in water bodies</li> <li>2. Residing place</li> <li>3. Dig a pit</li> <li>4. Throw anywhere</li> <li>5. Common pit</li> <li>6. Others(specify)</li> </ol>	
Q25	How many years of experience do you have of handling livestock animals?	<ol style="list-style-type: none"> <li>1. Less than one year</li> <li>2. 1-5 years</li> <li>3. 5-10 years</li> <li>4. More than 10 years</li> </ol>	

### Vaccination

Q26	Are you aware of vaccination of livestock?	<ol style="list-style-type: none"> <li>1. Yes</li> <li>2. No</li> </ol>	<i>(If No, then skip to Q38)</i>
Q27	Is the vaccination done as per schedule or as per disease?	<ol style="list-style-type: none"> <li>1. As per schedule</li> <li>2. As per disease</li> <li>3. Both</li> </ol>	<b>If 2 then skip to Q38</b>

Q28	Have you ever vaccinated your livestock animals?	1. Yes 2. No	<i>(If No, then skip to Q38)</i>
Q29	Which animals are vaccinated?	1. Cow/Buffalo 2. Goat 3. Pig 4. Sheep 5. Other(specify)	
Q30	Do you want your animals to be vaccinated?	1. Yes 2. No	<i>(If No, then skip to Q32)</i>
Q31	If <b>Yes</b> , then why you want the animals to be vaccinated?	1. To keep animals healthy/disease free 2. For longevity of animals 3. For better off springs 4. Others (Specify)	
Q32	If <b>No</b> , then why don't you want the animals to be vaccinated?	1. Productivity of animals will be hampered 2. Vaccination is costly 3. Veterinary doctor/ LI inspector is not coming home 4. Others (Specify)	
Q33	If as per schedule, when did you take the animals for vaccination?	1. Less than 6 months 2. 6 months - 1 year 3. 1-2 years 4. More than 2 years	
Q34	Where do you take the animals for vaccination?	1. Veterinary hospital 2. Home 3. Animal health checkup camps 4. Others (Specify)	
Q35	Who does the vaccination of animals?	1. Veterinary doctor 2. Livestock Inspector 3. Other (Specify)	
Q36	Is the vaccination free of cost?	1. Yes 2. No	<i>(If Yes, then skip to Q38)</i>
Q37	If <b>No</b> , then how much do you spend on vaccination per animal?	Specify------(in Rs.)	

### Animal Handling

Q38	Any recent deaths of animals in last 2 years?	1. Yes 2. No	<i>(If No, then skip to Q41)</i>
Q39	If yes, then when did it occur?	1. 0 - 6 months 2. 6 months – 1 year 3. 1 year – 1.5 years 4. 1.5 – 2 years	
Q40	What were the symptoms during death?	1. High fever 2. Blood from nose, mouth and anus 3. Breathing problems 4. Tremor before death 5. No symptoms 6. Don't know	
Q41	Do you skin dead animals?	1. Yes 2. No	<i>(If No, then skip to Q44)</i>
Q42	If yes do you wear protective equipments for it?	1. Yes 2. No	
Q43	What protective equipments do you wear?	1. Face mask 2. Gloves 3. Head cover 4. Body wear	

		5. Others (Specify)	
Q44	What do you do with the dead bodies of animal/ livestock?	<ol style="list-style-type: none"> <li>1. Burial</li> <li>2. Throw them away</li> <li>3. Distribute among villagers</li> <li>4. Selling the carcass</li> <li>5. Report to closest veterinary office</li> <li>6. Incineration</li> <li>7. Consume the meat</li> <li>8. Others(specify)</li> </ol>	
Q45	Do you know about getting financial help from the Govt. for burial of animals?  <i>If yes, then move to next questions.</i>	<ol style="list-style-type: none"> <li>1. Yes</li> <li>2. No</li> <li>3. Don't know</li> </ol>	<i>(If No or Don't Know, then move to Q48)</i>
Q46	Do you think compensation amount is enough for reporting the suspected dead animal?	<ol style="list-style-type: none"> <li>1. Yes</li> <li>2. No</li> <li>3. Don't know</li> </ol>	
Q47	Have you ever received compensation for reporting anthrax cases to the relevant authority?	<ol style="list-style-type: none"> <li>1. Yes</li> <li>2. No</li> <li>3. Don't know</li> </ol>	

### Food Habits

Q48	Do you consume meat?	<ol style="list-style-type: none"> <li>1. Yes</li> <li>2. No</li> </ol>	<i>(If No, then skip to Q57)</i>
Q49	What type of meat do you consume?	<ol style="list-style-type: none"> <li>1. Beef</li> <li>2. Pig</li> <li>3. Goat</li> <li>4. Sheep</li> <li>5. Others (Specify)</li> </ol>	
Q50	What is the source of meat?	<ol style="list-style-type: none"> <li>1. Market</li> <li>2. Hunting</li> <li>3. Livestock animals</li> <li>4. Dead animals</li> <li>5. Others (Specify)</li> </ol>	
Q51	How do you consume the meat?	<ol style="list-style-type: none"> <li>1. Cooked</li> <li>2. Roasted</li> <li>3. Raw</li> <li>4. Dried</li> <li>5. Others(specify)</li> </ol>	
Q52	How often do you consume the meat?	<ol style="list-style-type: none"> <li>1. Once in a week</li> <li>2. Twice in week</li> <li>3. Occasionally</li> <li>4. Daily</li> </ol>	
Q53	Do you preserve your meat?	<ol style="list-style-type: none"> <li>1. Yes</li> <li>2. No</li> </ol>	<i>(If No, then skip to Q55)</i>
Q54	If yes, how do you preserve your meat? (Explain by respondent)	<ol style="list-style-type: none"> <li>1. Refrigerate</li> <li>2. Keep in water</li> <li>3. Dried</li> <li>4. Any traditional methods</li> </ol>	
Q55	Do you take animal blood?	<ol style="list-style-type: none"> <li>1. Yes</li> <li>2. No</li> </ol>	<i>(If No, then skip to Q57)</i>
Q56	If yes, how do you consume?	<ol style="list-style-type: none"> <li>1. Cooked</li> <li>2. Dried</li> <li>3. Raw</li> <li>4. Others(specify)</li> </ol>	

<b>Knowledge assessment &amp; awareness of the respondent about anthrax</b>			
Q57	Have you ever heard about anthrax?	<ol style="list-style-type: none"> <li>1. Yes</li> <li>2. No</li> </ol>	<i>(If No, then go to the end)</i>
Q58	If yes, from where did you come to know about anthrax?	<ol style="list-style-type: none"> <li>1. Newspaper</li> <li>2. Doctor</li> <li>3. ANM/AWW/ASHA</li> <li>4. Community</li> <li>5. Forest Department</li> <li>6. Veterinary Department</li> <li>7. Others(specify)</li> </ol>	
Q59	Do you have any local names for anthrax?	<b>VERTBATIUM ()</b>	
Q60	Who all are affected by anthrax?	<ol style="list-style-type: none"> <li>1. Human</li> <li>2. Livestock</li> <li>3. Both</li> <li>4. None</li> <li>5. Don't Know</li> </ol>	
Q61	Do you know how anthrax is transmitted?	<ol style="list-style-type: none"> <li>1. Yes</li> <li>2. No</li> <li>3. Don't know</li> </ol>	<i>(If No or Don't Know, then skip to Q63)</i>
Q62	If yes, how it is transmitted?	<ol style="list-style-type: none"> <li>1. Air</li> <li>2. Food</li> <li>3. Contact with infected animal</li> <li>4. Soil</li> <li>5. Flies and Insects</li> <li>6. All of above</li> <li>7. Don't know</li> <li>8. Others</li> </ol>	
Q63	What are the symptoms of anthrax in animals?	<ol style="list-style-type: none"> <li>1. High fever</li> <li>2. Blood from nose, mouth and anus</li> <li>3. Breathing problems</li> <li>4. Tremor before death</li> <li>5. Don't know</li> <li>6. Others (Specify)</li> </ol>	
Q64	How do you respond to anthrax suspected cases in animals?	<ol style="list-style-type: none"> <li>1. None</li> <li>2. Inform relevant authority</li> <li>3. Disinfect the infected areas</li> <li>4. Treat with antibiotic</li> <li>5. Traditional methods</li> <li>6. Wait and see</li> <li>7. Others (Specify)</li> </ol>	
Q65	If you inform, then whom do you do?	<ol style="list-style-type: none"> <li>1. ASHA/ANM</li> <li>2. Livestock officials</li> <li>3. Forest Department Officials</li> <li>4. PRI members</li> <li>5. Teachers/Headmaster</li> <li>6. Unskilled health workers</li> </ol>	
Q66	How do you handle animals dead due to anthrax?	<ol style="list-style-type: none"> <li>1. Throw them away</li> <li>2. Consume the meat</li> <li>3. Burying</li> <li>4. Burning</li> <li>5. Both burning and burying</li> <li>6. Inform health officials</li> <li>7. Inform veterinary officials</li> <li>8. Others (Specify)</li> </ol>	<b>If 1 then skip to Q67, If 2 then skip to Q68, If 3 then skip to Q69, If 4 then skip to Q70.</b>

Q67	If you throw the animals, then where do you do?	<ol style="list-style-type: none"> <li>1. Forest</li> <li>2. Agricultural fields</li> <li>3. Nearby house</li> <li>4. Outside village</li> <li>5. Drainage system</li> <li>6. Water bodies</li> <li>7. Others (Specify)</li> </ol>	
Q68	If you consume the meat, then which part of animal body do you consume?	<b>VERTBATIUM ()</b>	
Q69	If you bury the animals, then where do you do?	<ol style="list-style-type: none"> <li>1. Forest</li> <li>2. Agricultural fields</li> <li>3. Nearby house</li> <li>4. Outside village</li> <li>5. Others (Specify)</li> </ol>	
Q70	If you burn the animals, then where do you do?	<ol style="list-style-type: none"> <li>1. Forest</li> <li>2. Agricultural fields</li> <li>3. Nearby house</li> <li>4. Outside village</li> <li>5. Others (Specify)</li> </ol>	
Q71	Have you heard about anthrax cases in animals in last two years?	<ol style="list-style-type: none"> <li>1. Yes</li> <li>2. No</li> </ol>	<i>(If No, then skip to Q74)</i>
Q72	If yes, then when did it happen?	<ol style="list-style-type: none"> <li>1. 0 - 6 months</li> <li>2. 6 months – 1 year</li> <li>3. 1 year – 1.5 years</li> <li>4. 1.5 years – 2 years</li> </ol>	
Q73	How many cases were there in last two years?	<b>VERTBATIUM ()</b>	
Q74	Has any livestock of yours suffered from anthrax?	<ol style="list-style-type: none"> <li>1. Yes</li> <li>2. No</li> <li>3. Don't Know</li> </ol>	
Q75	Is there any activities conducted on anthrax by veterinary department?	<ol style="list-style-type: none"> <li>1. Yes</li> <li>2. No</li> <li>3. Don't Know</li> </ol>	
Q76	If yes, specify.	<b>VERTBATIUM()</b>	
Q77	Are you aware about anthrax in humans?	<ol style="list-style-type: none"> <li>1. Yes</li> <li>2. No</li> </ol>	<i>(If No, then go to the end)</i>
Q78	How do you think people get infected with anthrax?	<ol style="list-style-type: none"> <li>1. Contact with infected livestock</li> <li>2. Consumption of meat from infected animal</li> <li>3. Consumption of other products from infected animal</li> <li>4. Contact with wild animals</li> <li>5. Slaughtering an infected carcass</li> <li>6. Don't know</li> <li>7. Others(Specify)</li> </ol>	
Q79	What are the symptoms of anthrax in humans?	<ol style="list-style-type: none"> <li>1. Abdominal pain</li> <li>2. Swollen neck</li> <li>3. Bleeding from all openings</li> <li>4. Ulcers of skin</li> <li>5. Others(specify)</li> <li>6. Don't know</li> </ol>	

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Q80	Have you heard about anthrax cases in humans in last two years?	1. Yes 2. No 3. Don't know	<i>(If No, then skip to Q83)</i>
Q81	If yes, then when did it happen?	5. 0 - 6 months 6. 6 months – 1 year 7. 1 year – 1.5 years 8. 1.5 years – 2 years	
Q82	How many cases were there in last one year?	<b>VERTBATIUM()</b>	
Q83	Has any member of your family suffered from anthrax?	4. Yes 5. No 6. Don't Know	
Q84	Is there any activities conducted on anthrax by health department?	1. Yes 2. No 3. Don't Know	
Q85	If yes, specify.	<b>VERTBATIUM()</b>	