**Risk factors of kala-azar, Gedaref**

Date of the interview (dd/mm/yyyy): [______]/[______]/201[______]

Starting time [______]h: [______] min

Name of the interviewer____________________

### Part 1 - Participant information

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Age |   |   |   |   |   |   |   |   |
|   |     | years (write 00 if less than 1 year) |
| 2 | Sex |   |   |   |   |   |   |   |   |
|   |     | 1. Male / 2. Female |
| 3 | Ethnicity/tribe |   |   |   |   |   |   |   |   |
|   |     | 1. Massalit / 2. Dajo / 3. Fur / 4. Fallata / 5. Barro / 6. Rezegat / 7. Arab / 8. Beni Aamir / 9. Bargo / 10. Hausa / 11. Zagawa / 12. Tama / 13. Nuba / 14. Salamat / 15. Birgid / 16. Rachid / 17. Zabarma / 18. Bilala / 99. Don’t know |
|   |     | 19. Other, specify ______ |

If case of an adult, go to 5. Otherwise, continue.

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| 4 | In case of a child (< 15 years): what is the relationship of the respondent with the child? |   |   |   |   |   |   |   |   |
|   |     | 1. Mother / 2. Father / 3. Grandparent / 4. Uncle- |
|   |     | 5. Sister-brother / 6. Other, specify: __________ |

### Part 2 - Household characteristics and socio-economic information

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| 5 | How many persons are part of the household for each of the following group? |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |
|   | Male |   |   |   |   |   |   |   |   |
|   | Female |   |   |   |   |   |   |   |   |
|   | Number |   |   |   |   |   |   |   |   |
|   | (including the participant and the persons temporarily absent) |
|   | 99. Do not know |
| 6 | <10 years |   |   |   |   |   |   |   |   |
| 7 | 10-19 years |   |   |   |   |   |   |   |   |
| 8 | 20-39 years |   |   |   |   |   |   |   |   |
| 9 | 40 years or more |   |   |   |   |   |   |   |   |

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| 9 | What is the education level of the participant? |   |   |   |   |   |   |   |   |
|   |     | 0. Too young to go to school / 1. Illiterate (cannot read/cannot write) / 2. Uncompleted 1ary school / 3. Completed 1ary school / 4. Uncompleted 2ary school / 5. Completed 2ary school or more / 6. Literate through Koranic/Khalwa school only / 7. Currently attending school / 8. Other: specify: __________ |
|   |     | 9. Don’t know |
| 10 | What is the main occupation of participant? |   |   |   |   |   |   |   |   |
|   |     | 01. Farmer (own the land, rent the land) / 02. Agricultural waged labour / 03. Herd animals / 04. Unemployed (Jobless or too old to take job) / 05. Going to school-student / 06. Water selling and trucking / 07. Tea selling and catering / 08. Porter / 09. Merchant / 10. Petty trade / 11. Skilled labour (carpenters, construction, welders, driver etc) / 12. Salaried work (Public service, MoH, MSF, others) / 13. Playing/stay with mother/too young to have a specific occupation / 14. Take care of the house / 99. Don’t know / 15. Other, specify: __________ |

In case of a child, go to 12. Otherwise, continue.

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| 11 | Is the participant the head of family? |   |   |   |   |   |   |   |   |
|   |     | 0. No / 1. Yes |
| 12 | If yes, go to 15. Otherwise, continue What is the sex of the head of family? |   |   |   |   |   |   |   |   |
|   |     | 1. Male / 2. Female |
| 13 | Same code as question 9 |
| 14 | What is the education level of the head of the family? |   |   |   |   |   |   |   |   |
|   |     | 8. Other: specify: __________ |
| 15 | 9. Don’t know |
| 16 | Same code as question 10 |
| 17 | 15. Other, specify: __________ |
### Risk factors of kala-azar, Gedaref

| **Part 3 – Movement history** |
|-------------------------------|
| **Does the participant’s household own:** |
| 15 | ≥ one tukul/home in this house yard? | [ ] 0. No / 1. Yes / 9. Don't know |
| 16 | ≥ one tukul/home outside this house yard? | [ ] 0. No / 1. Yes / 9. Don't know |
| 17 | lands/fields? | [ ] 0. No / 1. Yes / 9. Don't know |
| 18 | a radio? | [ ] 0. No / 1. Yes / 9. Don't know |
| 19 | a TV? | [ ] 0. No / 1. Yes / 9. Don't know |
| 20 | a bicycle? | [ ] 0. No / 1. Yes / 9. Don't know |
| 21 | a motorcycle? | [ ] 0. No / 1. Yes / 9. Don't know |
| 22 | a car, truck or tractor? | [ ] 0. No / 1. Yes / 9. Don't know |
| 23 | mobile phone(s)? | [ ] 0. No / 1. Yes / 9. Don't know |
| 24 | a donkey cart (karoo)? | [ ] 0. No / 1. Yes / 9. Don't know |
| 25 | a generator? | [ ] 0. No / 1. Yes / 9. Don't know |
| 26 | cereal stock in the tukul/home? | [ ] 0. No / 1. Yes / 9. Don't know |
| 27 | cereal stock in the house yard? | [ ] 0. No / 1. Yes / 9. Don't know |
| 28 | cereal stock outside the house yard? | [ ] 0. No / 1. Yes / 9. Don't know |
| 29 | cattle, goat, sheep or animal for trade? | [ ] 0. No / 1. Yes / 9. Don't know |

#### During the dry season
- **What is the household main source of drinking water?**
  - [ ] 1. Village water tank / 2. Surface water (River or streams) / 3. Other surface water (stagnant: pond/pool/swamp) / 4. Hand water pump (bore hole) / 5. Well / 6. Water sellers / 7. Sabaloga (collected rain water) / 8. Other, specify __________________________ / 9. don’t know

#### During the rainy season
- **What is the household main source of drinking water?**
  - [ ] Same code as above
  - 8 Other, specify __________________________

#### During the rainy season
- **Do the participant him/herself fetch surface water (river/swamps)? (in case of a child: do the child accompany anybody to fetch surface water?)**
  - [ ] 1. Daily / 2. Frequently, often / 3. Sometimes, occasionally / 4. Rarely / 5. Never / 9. Don’t know

#### Part 3 – Movement history

| **Since when is the participant living in this village?** |
|----------------|----------------|
| [ ] 1. Since birth / 2. Since ≥ 1 year, specify: number of years | [ ] / 3. Since <1 year, specify: number of months | [ ] / 4. Other: specify ________. / 9. Don’t know |

| **Did the participant travel or stay outside the village for ≥ 2 weeks over the past year?** |
|----------------|----------------|
| [ ] 0. No / 1. Yes / 9. Don't know |

| **how many times?** |
|----------------|----------------|
| [ ] 9. Don’t know |

If yes, list the travels ≥2 weeks with location (0. In neighbouring village inside Gureisha locality / 1. Outside Gureisha)
Risk factors of kala-azar, Gedaref

locality but other locality of Gedaref state/ 2. Gedaref town / 3. Outside Gedaref state/ 4. Outside Sudan (specify) / 9. Don’t know), duration (Number of weeks/ 99 = don’t know) and purpose (1. Trade/business/professional purpose/ 2. Study/ 3. Herding cattle / 4. Hospitalised or medical consultation / 5. Farming or harvesting / 6. Visiting relatives/ 7. Other, specify /9. Don’t know) (For a young child, if necessary, consider the purpose of the accompanying adult).

| Travel 1 | Location | Specify: | Duration (weeks) | Purpose | Specify: |
|----------|----------|----------|------------------|---------|----------|
| Travel 2 | Specify: |  |                  |         |          |
| Travel 3 | Specify: |  |                  |         |          |
| Travel 4 | Specify: |  |                  |         |          |

Part 4. Night activities and sleeping habits

| When does the participant usually go to sleep? | During the rainy season | During the dry season |
|-----------------------------------------------|-------------------------|-----------------------|
| If the answer is before or at moghrab prayer or if the : go to 47. In case of a child less than one year old go to 44. Otherwise, continue. If possible specify the exact time | | |
| In average/usually, how many hours from sunset/moghrab prayer to the time the participant go to sleep? | | |
| Between the sunset and the time (s)he goes to sleep, where does the participant usually stay? | | |
| Between the sunset and the time (s)he goes to sleep, what is his/her main activity when he/she is outdoor (open area)? | | |
| Between the sunset and the time (s)he goes to sleep, where is (s)he usually located when (s)he is outdoor (open area)? | | |

1. Before sunset/moghrab prayer/ 2. At sunset/moghrab prayer / 3. After sunset/moghrab prayer/ 4. Very variable from one day to another / 5. Not relevant, baby less than one year/ 9. Do not know.

0 = less than 1h30 (before Isha prayer) / 1 = 1h30 (at Isha prayer) / 2 = About 2 hours (just after Isha prayer) / 3 = 3 hours / 4 = 4 hours / 5 = 5 hours or midnight/ 6 = 6 hours or more (after midnight) / 7 = Do not know the number of hours but usually before midnight / 8 = Very variable from one day to another/ 9 = don’t know

1. Indoor (in a place closed with walls (tukul or other) only / 2. Outdoor (open area / 3. Both indoor and outdoor/ 9 = don’t know

1. Farming/ 2. Herding animals/ 3. Playing; too young to have specific activities / 4. Watching TV or listening to radio/ 5. Discussing-relaxing / 6. Selling at the market/ 7. Cooking or other house activities / 8. Other, specify: | | |

01. House yard / 02. Market / 03. Forest / 04. Fields / 05. Next to the house yard / 06. In the village but not next to the house yard nor in the market / 07. In a neighbouring village/ 08. Near the river / 99. Don’t know/ 10. Other, specify
### Risk factors of kala-azar, Gedaref

#### 47 Does the participant usually sleep in this house?
*If yes go to question 49. Otherwise, continue.*

- [ ] 0. No
- [ ] 1. Yes
- [ ] 9. Don't know

#### 48 Where does the participant usually sleep?

- [ ] 1. In the village but not this house yard
- [ ] 2. In a neighbouring village
- [ ] 3. Farm/field
- [ ] 4. Forest
- [ ] 5. Other, specify
- [ ] 9. Don't know

#### 49 When in this house yard, where does the participant usually sleep?
*If the answer is 1, 2 or 3, keep going. In case of a child less than one year old go to 53. Otherwise, go to 52.*

- [ ] 1. In a brick/cement room
- [ ] 2. In a tukul
- [ ] 3. In a "local" room
- [ ] 4. Under a shelter
- [ ] 5. In an open space
- [ ] 6. Under a tree
- [ ] 7. Variable according to the weather
- [ ] 8. Other, specify
- [ ] 9. Don't know

#### 50 Before sunrise, does the participant usually go outdoor at night before soboh prayer (5h30-5h45)?

- [ ] 1. Daily
- [ ] 2. Frequently, often
- [ ] 3. Sometimes, occasionally
- [ ] 4. Rarely
- [ ] 5. Never
- [ ] 9. Don't know

#### 51 Does the participant usually go outdoor (open area) about the time of soboh prayer (early morning)?

- [ ] 1. Daily
- [ ] 2. Frequently, often
- [ ] 3. Sometimes, occasionally
- [ ] 4. Rarely
- [ ] 5. Never
- [ ] 9. Don't know

#### 52 At night, where does the participant go for toilet purpose?

- [ ] 1. Latrine in the house yard
- [ ] 2. Latrines outside the house yard (neighbouring house or other place)
- [ ] 3. In the house yard but no latrines
- [ ] 4. Outside the house yard but no latrines
- [ ] 5. Not relevant, young child
- [ ] 9. Don't know

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**Observation:** ask the participant (or care taker) to show you the room/tukul where the participant sleeps when (s)he is in this house yard (if several room/tukul, ask for the main one)

#### 53 What is the type of walls in the tukul/room where the participant is used to sleep?

- [ ] 1. Concrete-brick
- [ ] 2. "Strong mud" (mixed or with layer of animal dung) with outside grass or plastic sheeting
- [ ] 3. Strong mud only (nothing outside)
- [ ] 4. Canes plastered with mud
- [ ] 5. Grass/cane/wood un-plastered (uncompleted)
- [ ] 6. Metal/zinc
- [ ] 7. Other, specify
- [ ] 9. Don't know

If the answer is 5 or 6 go to 55. Otherwise, continue.

#### 54 Are the walls cracked?

- [ ] 0. No
- [ ] 1. Yes, many
- [ ] 2. Yes but not many
- [ ] 9. Don't know

#### 55 What is the type of roof in the tukul/room he/she is used to sleep?

- [ ] 1. Grass and wood
- [ ] 2. Metallic-zinc
- [ ] 3. Corrugated iron-cement
- [ ] 4. Cane/strong straw
- [ ] 7. Other, specify
- [ ] 9. Don't know

#### 56 What is the type of floor in the tukul/room he/she is used to sleep?

- [ ] 1. Black cotton soil
- [ ] 2. Earthen covered with gravel
- [ ] 3. Sand
- [ ] 4. Sandy soil (azaza)
- [ ] 5. Rock, stone and gravel soil
- [ ] 6. Cemented
- [ ] 7. Mixture based from donkeys and cows dung
- [ ] 9. Don't know

#### 57 What is the type of windows in the tukul/room he/she is used to sleep?

- [ ] 1. No windows
- [ ] 2. Windows with shutter
- [ ] 3. Windows with screen or curtain
- [ ] 4. Open, not protected windows
- [ ] 9. Don't know

#### 58 Are there termites in the tukul/room he/she is used to sleep?

- [ ] 0. No
- [ ] 1. Yes, many
- [ ] 2. Yes but not many
- [ ] 9. Don't know
### Risk factors of kala-azar, Gedaref

**Team** - **Village** - **Waypoint**

| Page | Question                                                                 | Options                                      | Notes                             |
|------|--------------------------------------------------------------------------|----------------------------------------------|----------------------------------|
| 59   | On what the participant usually sleeps?                                 | 1. On the floor/ 2. On a bed/ 3. On a sheet/ 4. On a mat or mattress / 9. Don’t know |
| 60   | Do not ask: according to your opinion, what is the quality of this tukul?| 1. Very good/ 2. Good/ 3. Poor / 4. Very poor|

**Stop observation**

| Page | Question                                                                 | Options                                      | Notes                             |
|------|--------------------------------------------------------------------------|----------------------------------------------|----------------------------------|
| 61   | How many persons usually sleep in the same room/tukul?                  | Number of persons (including participant) / 99. Do not know |
| 62   | Is the floor made wet during the dry season to keep the temperature low or to sweep the floor? | 1. Daily/ 2. Frequently, often / 3. Sometimes, occasionally/ 4. Rarely/ 5. Never/ 9. Don’t know |
| 63   | Is sand or gravels put on the floor inside the tukul during the rainy season? | 1. Daily/ 2. Frequently, often / 3. Sometimes, occasionally/ 4. Rarely/ 5. Never/ 9. Don’t know |
| 64   | Was the room/tukul sprayed inside in the last year?                      | 0. No / 1. Yes, by the household/ 2. Yes, by the MoH or other organisation/ 9. Don’t know |
| 65   | Does the participant usually sleep covered?                             | 1. Covered / 2. Not covered / 3. variable according to the weather/ 9. Don’t know |
| 66   | If covered, with what?                                                  | 1. a sheet / 2. a blanket / 3. Sheet or blanket according to the weather / 4. Other, specify ______ / 9. Don’t know |
| 67   | Does the participant sleep under a mosquito net (before hospitalisation for cases)? | 1. Yes / 2. No, never / 9. Don’t know |
| 68   | How frequently does (s)he sleep under the mosquito net?                | 1. Daily/ 2. Frequently, often / 3. Sometimes, occasionally/ 4. Rarely/ 9. Don’t know |
| 69   | Is the current mosquito net impregnated (not for cases)? (check by observation) | 0. No / 1. Yes / 9. Don’t know |
| 70   | Is it in good condition (not for cases)? (check by observation)         | 0. Bad condition / 1. Yes, good condition / 2. Slightly damaged / 9. Don’t know |
| 71   | Are there usually animals at night in the room/tukul where (s)he is used to sleep? | 0. No / 1. Yes/ 9. Don’t know |
| 72   | What type and how many                                                   | Number                                       |
| 73   | Are there usually animals at night in this house yard? (including animals located in animal accommodation) | 0. No / 1. Yes/ 9. Don’t know |
| 74   | What type and how many (count all whether or not they are in the cattle shed) | Number                                       |

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Team - Village _- Waypoint  
MSF ID number - 2
### Risk factors of kala-azar, Gedaref

#### 75
Are there usually animals at night in the adjacent house yard/immediate surroundings where he/she is used to sleep?
- Yes / 1. No / 9. Don’t know

If no go to 77. Otherwise, continue.

#### 76
What type and how many

| Dogs | Donky | Cattle | Camel | Horse | Goat | Sheep |
|------|-------|--------|-------|-------|------|-------|
|      |       |        |       |       |      |       |

### 77
Are there rats/rodents in the room/tukul where he/she is used to sleep?
- Yes / 1. No / 9. Don’t know

#### 78
Are there animals burrows in the room/tukul where he/she is used to sleep?
- Yes / 1. No / 2. Yes but not many / 9. Don’t know

#### 79
Are there animals burrows (uncovered) in the house yard where he/she is used to sleep?
- Yes, many / 1. No / 2. Yes but not many / 9. Don’t know

#### 80
Are there usually bodies of water in the house yard? (if several, report the biggest one)
- Yes, 'local sewage' / 2. Yes, stagnant rain water / 3. Other, specify: ________ / 9. Don’t know

#### 81
Are there usually bodies of water in the immediate surroundings of the house yard?
- Yes, pond / 2. Yes, river, stream / 3. Yes, stagnant rain water / 4. Other, specify: ________ / 9. Don’t know

### 82
Does the participant sometimes sleep in the field/farm?
- 1. Yes / 2. No, never / 9. Don’t know

If not, go to 86. Otherwise, continue.

#### 83
How many nights over the season?
- Number of nights

99. Do not know

1. In a brick/cement room / 2. Inside a tukul / 3. In a “local” room / 4. Under a shelter / 5. In an open space / 6. Under a tree / 7. Variable according to the weather / 8. Other, specify: ________ / 9. Don’t know

#### 84
When in the field, where does the participant usually sleep?
- 1. In a brick/cement room / 2. Inside a tukul / 3. In a “local” room / 4. Under a shelter / 5. In an open space / 6. Under a tree / 7. Variable according to the weather / 8. Other, specify: ________ / 9. Don’t know

#### 85
When in the field, does the participant sleep under a mosquito net (before hospitalisation for cases)?
- 1. Daily / 2. Frequently, often / 3. Sometimes, occasionally / 4. Rarely / 5. Never / 9. Don’t know

#### 85b
Does the participant sometimes herd animals? (In case child, does s/he accompany other person herding animals)?
- 1. Yes / 2. No / 9. Don’t know

If not, go to 90. Otherwise, continue.

#### 86
Does the participant sometimes sleep outside the village for herding cattle?
- 1. Yes / 2. No, never / 9. Don’t know

If not, go to 90. Otherwise, continue.

#### 87
How many nights over the season?
- Number of nights

99. Do not know

0. Tent / 1. In a brick/cement room / 2. Inside a tukul / 3. In a “local” room / 4. Under a shelter / 5. In an open space / 6. Under a tree / 7. Variable according to the weather / 8. Other, specify: ________ / 9. Don’t know

#### 88
When herding cattle, where does the participant usually sleep?
- 0. Tent / 1. In a brick/cement room / 2. Inside a tukul / 3. In a “local” room / 4. Under a shelter / 5. In an open space / 6. Under a tree / 7. Variable according to the weather / 8. Other, specify: ________ / 9. Don’t know

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| Team | Village | Waypoint | Team | Village | MSF ID number |
|------|---------|----------|------|---------|---------------|
|      |         |          |      |         |               |

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### Risk factors of kala-azar, Gedaref

#### 89. When herding cattle, does the participant sleep under a mosquito net (before hospitalisation for cases)?
- [ ] 1. Daily
- [ ] 2. Frequently, often
- [ ] 3. Sometimes, occasionally
- [ ] 4. Rarely
- [ ] 5. Never
- [ ] 9. Don't know

#### 90. Does the participant usually have naps during day time?
- [ ] 1. Daily
- [ ] 2. Frequently, often
- [ ] 3. Sometimes, occasionally
- [ ] 4. Rarely
- [ ] 5. Never
- [ ] 9. Don't know

If never, go to 100. Otherwise, continue.

#### 91. Is he/she having the nap under trees?
- [ ] 1. Daily
- [ ] 2. Frequently, often
- [ ] 3. Sometimes, occasionally
- [ ] 4. Rarely
- [ ] 5. Never
- [ ] 9. Don't know

If never, go to 100. Otherwise, continue.

#### Type of trees (cfr pictures)

| Tree                        | [ ] 0. No | [ ] 1. Yes | [ ] 9. Don't know |
|-----------------------------|-----------|-----------|--------------------|
| Taleh (Acacia seyal)        |           |           | 0. No / 1. Yes / 9. Don't know |
| Lalob or higleeg (Balanites aegyptiaca) | [ ]   | [ ]   | 0. No / 1. Yes / 9. Don't know |
| Neem (azadirachta indica)   |           |           | 0. No / 1. Yes / 9. Don't know |
| Hashab (Acacia senegal)     |           |           | 0. No / 1. Yes / 9. Don't know |
| Kiter (Acacia Mullifera)    |           |           | 0. No / 1. Yes / 9. Don't know |
| Sonot/Garad                 |           |           | 0. No / 1. Yes / 9. Don't know |
| Sidir                       |           |           | 0. No / 1. Yes / 9. Don't know |
| Other, specify              |           |           | 0. No / 1. Yes / 9. Don't know |

#### 92. Does the participant have activities in the wood/forest (playing, cutting wood, hunting)? (In case child, does s(he) accompany other person in the forest)?
- [ ] 1. Yes
- [ ] 2. No, never
- [ ] 9. Don't know

If no go to 102 otherwise, continue.

#### 93. How frequently?
- [ ] 1. Daily
- [ ] 2. Frequently, often
- [ ] 3. Sometimes, occasionally
- [ ] 4. Rarely
- [ ] 5. Never
- [ ] 9. Don't know

#### 94. Is the participant using chemical insect repellents for himself?
- [ ] 1. Daily
- [ ] 2. Frequently, often
- [ ] 3. Sometimes, occasionally
- [ ] 4. Rarely
- [ ] 5. Never
- [ ] 9. Don't know

#### 95. Is the participant using natural oil or other products for his/her body?
- [ ] 1. Daily
- [ ] 2. Frequently, often
- [ ] 3. Sometimes, occasionally
- [ ] 4. Rarely
- [ ] 5. Never
- [ ] 9. Don't know

If never go to 105 otherwise, continue.

#### 96. Specify the type of oil
- [ ] 1. Sisam/sesame oil
- [ ] 2. Neem oil
- [ ] 3. Oil from Lalob
- [ ] 4. Ground nut/beans oil
- [ ] 5. Petroleum product (gasoline)
- [ ] 6. Other Specify: ________________
- [ ] 9. Do not know

#### 97. Is participant using fire or smoking woods as insect repellent in the tukul/room?
- [ ] 1. Daily
- [ ] 2. Frequently, often
- [ ] 3. Sometimes, occasionally
- [ ] 4. Rarely
- [ ] 5. Never
- [ ] 9. Don't know

If never go to 107 otherwise, continue.

#### 98. Specify the type of wood/material
- [ ] 1. Taleh
- [ ] 2. Neem
- [ ] 3. Lalob
- [ ] 4. Other
- [ ] 9. Don't know

#### If the participant’s household has no animals (see 73 and 75), go to 111, otherwise, continue.

| Team | Village | Waypoint | Team | Village | MSF ID number |
|------|---------|----------|------|---------|--------------|
| Question                                                                 | Options               | Yes | No | Don't know |
|------------------------------------------------------------------------|-----------------------|-----|----|------------|
| **Risk factors of kala-azar, Gedaref**                                  |                       |     |    |            |
| 107 Does the household use insect repellent for the body of animals?   | 1. Daily / 2. Frequently, often / 3. Sometimes, occasionally / 4. Rarely / 5. Never / 9. Don't know |     |    |            |
| If no go to 109 otherwise, continue                                    |                       |     |    |            |
| 108 Specify the type of repellent                                      | 1. Chemical / 2. Local ‘Tar’ (Quotran) / 3. Other, specify: |     |    |            |
| If no go to 111 otherwise, continue                                    |                       |     |    |            |
| 109 Is the participant using other insect repellents for animals?      | 1. Daily / 2. Frequently, often / 3. Sometimes, occasionally / 4. Rarely / 5. Never / 9. Don't know |     |    |            |
| If no go to 111 otherwise, continue                                    |                       |     |    |            |
| 110 The type of repellent                                              | 1. Smoke from grass / 2. Smoke from wood / 3. Smoke from grass and wood / 4. Other, specify: |     |    |            |
| **Part 5 - Personal medical history and knowledge of VL**               |                       |     |    |            |
| 111 Does the participant currently take a long term (at least one month) medical treatment prescribed by a medical person (do not consider treatment related to Kala Azar)? | | | 0. No / 1. Yes / 9. Don’t know | |
| If no, go to 113 (144 for case). Otherwise continue                     |                       |     |    |            |
| 112 Specify the type of treatment:                                     |                       |     |    |            |
| 113 Did the participant (or his/her caretaker) know Kala azar before the interview (do not ask this question to cases)? | 0. No / 1. Yes | | | |
| If no, go to 122. Otherwise, continue                                  |                       |     |    |            |
| 114 Has any of the household member of the participant been sick with KA? | 0. No / 1. Yes / 9. Don’t know | | | |
| If no, go to 119. Otherwise, continue                                  |                       |     |    |            |
| 115 How many persons?                                                   |                       |     |    | 99. Do not know (For case, do not count the participant!) | |
| 116 How many of them received a medical treatment (in health center or hospital)? | | | | 99. Do not know (For case, do not count the participant!) |
| 117 How many of them developed a rash (PKDL - show picture)?           | 0. No / 1. Yes / 9. Don’t know | | | |
| If none, go to 119. Otherwise, continue                                |                       |     |    |            |
| 118 Was (any of) the(se) rash(es) still present in the last year (in the year before the participant was sick for cases)? | 0. No / 1. Yes / 9. Don’t know | | | |
| 119 Has any inhabitant of the adjacent/bordering houses been sick with KA? | 0. No / 1. Yes / 9. Don’t know | | | |
### Risk factors of kala-azar, Gedaref

If no, go to 122. Otherwise, continue.

| Question                                                                 | Response Options          | Code |
|--------------------------------------------------------------------------|----------------------------|------|
| 120 How many persons?                                                    |                            |      |
| 121 How many of them received a medical treatment (in health center or hospital)? |                            |      |
| 122 Has any inhabitant of the adjacent/bordering houses been presenting such a rash (PKDL - show picture)? | 0. No / 1. Yes / 9. Don’t know |      |
| 123 How many persons?                                                    |                            |      |
| 124 Was (any of) the(se) rash(es) still present in the last year (in the year before the participant was sick for cases)? | 0. No / 1. Yes / 9. Don’t know |      |

For the following questions: note the answer spontaneously given! Do not suggest anything! Do not ask the question if the person did not know KA before (see question 133)

| Question                                                                 | Response Options          | Code |
|--------------------------------------------------------------------------|----------------------------|------|
| 125 Use a mosquito net                                                   |                            |      |
| 126 Use insect repellent for human                                      |                            |      |
| 127 Use insect repellent for animals                                    |                            |      |
| 128 Spray home (inside)                                                  |                            |      |
| 129 Cut the trees                                                        |                            |      |
| 130 Covering/filling crack in the soil/walls                            |                            |      |
| 131 Killing dogs                                                         |                            |      |
| 132 Fighting rodents                                                     |                            |      |
| 133 Cleaning in and around the house                                   |                            |      |
| 134 Stay inside the tukul, not going out at night                        |                            |      |
| 135 Cover your body                                                      |                            |      |
| 136 Other specify                                                        |                            |      |

### Part 6 – House observation

| Question                                                                 | Response Options          | Code |
|--------------------------------------------------------------------------|----------------------------|------|
| 137 Brick cement room                                                    |                            |      |
| 138 Tukuls                                                               |                            |      |
| 139 Local room                                                           |                            |      |
| 140 Shelters                                                            |                            |      |
| 141 Animal’s accommodation (no poultry, no birds)                        |                            |      |
| 142 Poultry accommodation                                                |                            |      |
| 143 Is there “farming/crops” in the house yard?                          | 0. No / 1. Yes             |      |

| Team | Village | Waypoint | Team | Village | MSF ID number |
|------|---------|-----------|------|---------|---------------|
|      |         |           |      |         |               |
1. Black cotton soil / 2. Earthen covered with gravel / 3. Sand / 4. Sandy soil (azaza) / 5. Rock, stone and gravel soil / 6. Cemented / 7. Mixture based from donkeys and cows dung / 8. Other, specify / 9. Don't know

1. Black cotton soil / 2. Earthen covered with gravel / 3. Sand / 4. Sandy soil (azaza) / 5. Rock, stone and gravel soil / 6. Cemented / 7. Mixture based from donkeys and cows dung / 8. Other, specify / 9. Don't know

1. Black cotton soil / 2. Earthen covered with gravel / 3. Sand / 4. Sandy soil (azaza) / 5. Rock, stone and gravel soil / 6. Cemented / 7. Mixture based from donkeys and cows dung / 8. Other, specify / 9. Don't know

1. Black cotton soil / 2. Earthen covered with gravel / 3. Sand / 4. Sandy soil (azaza) / 5. Rock, stone and gravel soil / 6. Cemented / 7. Mixture based from donkeys and cows dung / 8. Other, specify / 9. Don't know