

Questionnaire code: Questioner's name: Date:

Dear Colleague

With your cooperation and valuable answers to this questionnaire, the research entitle “Investigating the knowledge, attitude, and performance of healthcare professionals about Dengue fever in some high-risk areas of Sistan and Baluchestan province” will be conducted.

Therefore, please read it and answer the questions carefully (4 pages). If you have any doubts about the questions, you can ask for guidance from the expert who gave it.

It should be noted that all answers will be confidential and used to prevent Dengue.

Demographic Information		
1	County	1-Zahedan ☐ 2- Saravan ☐ 3-Sib-va-souran ☐ 4- Mirjaveh ☐ 5- Nikshahr ☐ 6- Chabahar ☐ 7- Rask ☐
2	Type of healthcare facility (Services level)	1- Urban Comprehensive Health Service Center 2- Rural Comprehensive Health Service Center 3- Health House 4- Health Post
3	Gender	1- Female ☐ 2- Male ☐
4	Age	 years
5	Job (position)	1. Community health workers (Behvarz) 2. Healthcare providers 3. General physician
6	Work experience	 years
7	Level of education	1- Elementary ☐ 2- secondry school ☐ 3- High school/Diploma ☐ 4-Associate degree ☐ 5- Bachelor's degree ☐ 6- M.Sc. /Ph.D/ GP ☐
8	Have you passed any training courses related to dengue fever?	1-Yes ☐ The date of the last course 2- No ☐

Please answer the following questions related to your general knowledge of dengue		Yes	No	I don't know
1	Do you know the term arboviral disease?			
2	Can all mosquitoes transmit dengue fever disease?			
3	Can <i>anopheles</i> mosquitoes transmit dengue fever disease?			
4	Is dengue fever transmitted by the <i>Aedes</i> mosquito?			

5	Do both sexes of mosquitoes (male and female) can transmit dengue fever?			
6	Are <i>Aedes</i> mosquitoes diurnal (active during the day)?			
7	Is it more likely to be bitten by dengue vector mosquitos in the early morning and evening?			
8	Is dengue fever disease transmitted by food?			
9	Is dengue fever disease transmitted through breathing?			
10	Is dengue fever disease caused by the virus?			
11	Do you know ovitrap?			
12	Has dengue vector/s been reported from Sistan and Baluchestan province ?			
13	Is there dengue fever disease in Pakistan?			
14	Is there dengue vector/s in Pakistan?			
15	Is dengue fever included in the International Health Regulations ?(IHR)			
16	Does international travel affect the spreading of dengue disease?			
17	Does draining dengue vectors' breeding places destroy their eggs?			
18	Is it easy to distinguish between dengue fever and other febrile diseases in the early stages of fever?			
Please determine which of the following is dengue symptom/s.		Yes	No	I don't know
19	Fever			
20	Muscle pain (myalgia)			
21	Joint pain (arthralgia)			
22	Pain behind the eyes			
23	Chills			
24	Headache			
25	Abdominal pain (Stomach pain)			
26	Skin rash			
27	Bleeding from the mucous, especially from the nose and gums			
28	Difficult rapid breathing			
Please determine the preventive methods of Dengue.		Yes	No	I don't know
29	Eliminating small stagnant water (drainage or filling water pits, ...)			
30	Removing discarded tires			
31	Covering (closing the lid of) water storage containers/ tanks			
32	Removing discarded containers that may keep rainwater			
33	Use of mosquito bed net			
34	Use of mosquito repellents			
35	Using mosquito nets over windows and doors			
Please determine which group of dengue patients should be referred to the hospital.		Yes	No	I don't know
36	Patients without warning symptoms			
37	Pregnant			
38	Diabetic			
39	Elderly			
40	Persistent vomiting			
41	Mucosal bleeding			
42	Liver enlargement (hepatomegaly)			
43	Respiratory distress			

Please answer the following questions that are related to your attitude towards the Dengue.		Agree	Neutral (neither agree nor disagree)	Disagree
1	I believe that covering water containers and reservoirs with lids will reduce the abundance of dengue vector mosquitoes.			
2	I believe that draining small stagnant waters will reduce the abundance of dengue vector mosquitoes.			
3	I believe that active patient screening reduces the incidence of dengue.			
4	I believe that using mosquito nets is effective for dengue prevention.			
5	I believe that using mosquito repellents is effective for dengue prevention.			
6	I believe that increasing awareness among people can effectively prevent and reduce the burden of dengue.			
7	I believe that targeted planning at the household level, such as monitoring larval habitats, plays an important role in dengue prevention and control.			
8	I believe that routine monitoring and environmental sanitation positively contribute to dengue prevention and control.			
9	I believe that training health staffs has a positive impact toward dengue prevention.			
10	I believe that the environment in the area where I work is conducive to dengue transmission.			
11	I believe that there is inadequate policy in the region for dengue control.			
12	I believe that diagnosing dengue fever is difficult.			
13	I believe that traditional medicines can be used for dengue treatment.			
14	I believe that our country will not face dengue outbreaks.			
15	I believe that international health regulations will be crucial in preventing the entry of dengue fever into our country.			
16	I believe that special attention should be paid to febrile patients with the possibility of dengue disease.			

Please answer the following questions that are related to your practice towards the Dengue.		
1	Are you ready to utilize (how to use) facilities and equipment to combat dengue disease?	1- Yes ☐ 2- No ☐
2	Have you been involved in educating individuals about dengue?	1- Yes ☐ 2- No ☐
3	Have you personally monitored potential larval breeding sites such as local cement water reservoirs or discarded tires?	1- Yes ☐ 2- No ☐
4	Have you suggested reforms to the local people regarding water reservoirs, such as covering water containers with lid ?	1- Yes ☐ 2- No ☐
5	Have individuals implemented your reform suggestions?	1- Yes ☐ 2- No ☐
6	Have you provided recommendations for managing dengue larval habitats to the health system, such as removing discarded containers from the environment?	1- Yes ☐ 2- No ☐
7	Was the required change implemented after presenting your reform recommendations to the health system?	1- Yes ☐ 2- No ☐
Which of the following measures do you recommend to your clients to prevent and control dengue fever?		
8	Indoor residual spraying	1- Yes ☐ 2- No ☐
9	Using mosquito bed nets	1- Yes ☐ 2- No ☐
10	Installing mosquito nets over windows and doors	1- Yes ☐ 2- No ☐
11	Removing discarded tires and containers where mosquitos may lay egg	1- Yes ☐ 2- No ☐
12	Fogging	1- Yes ☐ 2- No ☐

13	Drainage or filling water pits	1- Yes ☐ 2- No ☐
14	Using mosquito repellents	1- Yes ☐ 2- No ☐
Which of the following actions do you recommend to your clients in case of suspected dengue fever symptoms?		
15	Using traditional medicine	1- Yes ☐ 2- No ☐
16	Consulting colleagues	1- Yes ☐ 2- No ☐
17	Visiting health centers	1- Yes ☐ 2- No ☐
18	Consulting family members	1- Yes ☐ 2- No ☐
19	Consulting friends and acquaintances	1- Yes ☐ 2- No ☐
20	Using medicine arbitrary	1- Yes ☐ 2- No ☐
If your clients need to see a doctor, which of the following do you recommend first?		
21	Private clinic	1- Yes ☐ 2- No ☐
22	Government clinic	1- Yes ☐ 2- No ☐
23	Hospital	1- Yes ☐ 2- No ☐
24	Health centers (Rural/ urban comprehensive health service centers)	1- Yes ☐ 2- No ☐
The clinical feature of which of the febrile diseases makes you suspect dengue fever?		
25	Measles	1- Yes ☐ 2- No ☐
26	Malaria	1- Yes ☐ 2- No ☐
27	Influenza	1- Yes ☐ 2- No ☐
28	HIV	1- Yes ☐ 2- No ☐
29	Chikungunya	1- Yes ☐ 2- No ☐

END.

Thanks for your participation