ICMR FoodNet Practical Guidelines for the investigation of Foodborne outbreak

(These guidelines are intended to serve as general procedures for investigation of foodborne disease outbreaks)

Case Definition: Foodborne outbreak occurrences affecting two or more people who express the similar illness due to consumption of same contaminated food or drink.

	Steps	Methods	Approach to		
1	Source of information	Alert: Before, during and after a major festival, marriage	Media :Electronic Media, local Newspaper		
	of an outbreak	ceremony, any other mass gathering (These events increase the	Local Health Authorities:		
		chance of infection through host environment interconnection		workers,MO(PHC), BMOH	
		and contamination offood)		on: Gram Pradhan, BDO,	
			DM		
		-Small scale outbreak		s Surveillance Program	
		Y (1 1	(IDSP) officers		
		-Large outbreak	Consumer or from		
2.	Declaration of an	Information of an outbreak should be confirmed by: 1. Local admi			
	outbreak		from patients and contacts		
	(Confirmation of news		robiological investigations: (confirmation of		
	of outbreak)	pathogens from	m patients samples/ from leftover food samples)		
3.	Outbreak investigation			T	
3.1	Identify and interview	To identify the place, person and time of outbreak	Administrative	Village level:	
	the stake holders		Officials	Gram Panchayat/ Gram	
				Pradhan	
				<u>District level:</u> Block Development	
				Officer, DM	
			Health officials	Primary Health Centre	
			Ticalui Officials	(PHC)	
				Block Medical Officer of	
				Health (BMOH)	
				Chief Medical Officer of	
				Health (CMOH)	
				(/	
3.2	Select sites for			•	
	investigation, based on	1. Health centers and Hospitals:			
	the primaryinformation	PHC, BPHC, Rural Hospital, District hospital (for patients/ cases)			

	(where large number		
	of people affected and	2. Community/ school/household:	
	increased number of	-Contact of patients, family members, who may have consumed the same food item/Asymptomatic cases	
	cases admitted/treated)	in the community	
2.2		- Cook , food handlers	
3.3	Conduct site	1. Conduct in-depth pre-determined questionnaire based interview (annexure I) of the patients and	
	investigation at	associated asymptomatic cases:	
	identified premises		
-Socio demographic profile of Patient (Name/address/Contact details)			
	-illness history/Food Consumption History		
		-Location of the food taken from Date and time of the onset of illness/Suspected time of consumption	
		- Drinking water source, purification procedure, type of pot (mud/metal; wide mouth/narrow mouth; closed/open),	
		number of days stored etc.	
		-Common food handling practice -Hand hygiene	
		-Treatment seeking behavior	
		-use of ORS and antibiotics	
		- Treatment provided by centers or by others	
		-Diagnosis/Clinical Report	
		-Suspected Microbial Infection	
		2. Conducting an environmental investigation of implicated food type.	
		3. Assess procedures (cooked/Raw/Processed) undergone by suspected food item.	
		3. Assess procedures (cooked/kaw/110cessed) undergone by suspected rood hem.	
3.4	Sample Collection	Collect appropriate food and clinical samples:	
		1. Leftover food samples: Suspected contaminated foods, water, surface swabs etc.	
		2. Patient samples: Vomitus, Stool, rectal swabs etc.	
		3. Samples from nail bed of food handlers (if required)	
3.5	Sample transport	Collected samples should transport to the nearest labs/ study center as per SOP guidelines (page no-)	
3.6	Lab testing for	At the lab, samples should be processed as quickly as possible	
	pathogen		
	identification&		
	Antibiotic sensitivity		
	testing		
4.	Preparation of	Should prepare outbreak/over the time endemic curve /spot map etc. as well as last three years secondary data (on	

	outbreak curve and secondary data curve	foodborne infections and outbreak) curve to compare outbreak situation
5.	Dissemination of the results to the stakeholders with suggestion in current treatment policies	-To contain outbreak, policy makers could be approached if there is any need of change the current treatment policy or other things come out from lab investigations -Specific feasible recommendations for the control and preventionof recurrences of similar outbreaks can be made.