



S4 Table. Summary of sub-themes with frequency and intensity effect sizes

Main Themes	Sub-themes	FES (%)																																			
				Nnebue et al. . 2013 [27]	Abrubakar et al. 2013 [32]	Maponga et al. 2014 [34]	Nnebue et al. 2014 [26]	Adokiya et al. 2015 (a) [21]	Adokiya et al. 2015 (b) [35]	Tsitsi et al. 2015 [36]	Issah et al. 2015 [29]	Lar et al. 2015 [24]	Ngwa et al. 2016 [37]	Benson et al. 2016 [20]	Mwatondo et al. 2016 [38]	Adokiya et al. 2016 [22]	Baghdadi , 2016[39]	Adokiya and Awonor- Williams, 2016 [40]	Mairoso et al. 2016 [41]	Iwu et al. 2016 [25]	Begashaw and Tesfaye, 2016 [28]	Mandyata et al. 2017 [42]	Mboera et al. 2017 [33]	Lakew et al. 2017 [43]	Haakonde et al. 2018 [23]	Dairo et al. 2018 [19]	Randriamarana et al. 2018 [45]	Masira et al. 2019 [46]	Ameh et al. 2016 [31]	Adjei et al. 2017 [47]	Junadu et al. 2018 [48]	Benson et al. 2017 [30]	Wu et al. 2018 [44]				
IES (%)			27.8	5.6	5.6	11.1	11.1	5.6	22.2	5.6	11.1	27.8	5.6	16.7	5.6	22.2	5.6	5.6	11.1	11.1	11.1	16.7	22.2	16.7	5.6	5.6	16.7	16.7	5.6	11.1	0.0	0.0					
Surveillance Core Functions	Case Confirmation																																				
	Provision of laboratory facilities	6.7										X						X																			
	Improved specimen handling	3.3																	X																		
	Reporting																																				
	Provision of reporting forms	13.3	X								X							X					X														
	Reporting quality	13.3						X									X											X		X							
	Feedback																																				
	Improved feedback from higher to lower levels	10.0		X																	X	X															

	Improved health workers' attitudes	3.3						X													
	<i>Data Analysis</i>																				
	Improved data accuracy and quality	6.7							X					X							
	Surveillance performance monitoring	3.3												X							
Surveillance Support Functions	<i>Training</i>																				
	Knowledge on surveillance systems	33.3	X		X		X	X		X		X				X	X		X	X	
	Improved surveillance data quality	16.7			X		X			X		X		X							
	Improved performance of the surveillance system	10.0			X				X							X					
	<i>Supervision</i>																				
	Identification of correct reporting channels	6.7	X				X														
	Utilisation of up-to-date information	3.3								X											
	Strengthening the surveillance system	13.3	X												X	X			X		

Resources

Equipment and Infrastructure	10.0		X	X	X			X		
Technical, material and logistical resources	20.0		X	X		X		X	X	X X
Human resources	6.7				X	X				
Financial resources	20.0	X					X		X X	X X

X - denotes presence of a given finding; **FES (Frequent Effect Size)** – how often a particular sub-theme appeared in the reviewed literature; **IES (Intensity Effect Size)** - how much each included study contributes to the reviewed literature based on number of emerging sub-themes.