Supplementary material BMJ Global Health

Kuehne A, Keating P, Polonsky J, Haskew C, Schenkel K, le Polain de Waroux O, Ratnayake R: Event-based surveillance in low- and middle-income countries: a systematic review

Supplementary file 3: Systematic literature review on event-based surveillance in the field: Studies included for review and their quality assessment according to GRADE and adapted CDC guidance for surveillance system evaluations (N=15)

		Quality of the description of the purpose and operation of the EBS system										Quality of assessment of key elements of the surveillance system under evaluation											
Author and Title	GRADE quality of evidence	Impor tance of event descri bed	Objec tives descri bed	Event under EBS state d	Use of data state d	Comp onent s descri bed	Flow of inform ation describ ed	Integr ation descri bed	Resou rces descri bed	Feedb ack mecha nism stated	Respo nse mecha nism describ ed	Sum mary score	Level of useful ness	Data qualit y	Repres entati veness	PPV	Sensit ivity	Accep tabilit y	Timeli ness	Simpli city	Flexib ility	Stabili ty	Other
Ratnayake, R., et al. (2016). "Assessment of Community Event-Based Surveillance for Ebola Virus Disease, Sierra Leone, 2015." Emerging Infectious Diseases 22(8): 1431-1437. [21] & ERC. (2015). "Evaluation of the Functionality and Effectiveness of Community Event-Based Surveillance (CEBS) in Sierra Leone." [22]		1	2	2	2	2	1	2	2	0	1	15	Partly evalu ated	Not evalu ated	Not evalua ted	Evalu ated	Evalu ated	Not evalu ated	Partly evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evaluated
Stone, E., et al. (2016). "Community Event-Based Surveillance for Ebola Virus Disease in Sierra Leone: Implementation of a National-Level System During a Crisis." PLoS currents 8. [19] & ERC (2015). "Evaluation of the Functionality and Effectiveness of Community Event- Based Surveillance (CEBS) in Sierra Leone." [22]	Very low	1	2	2	1	2	2	2	0	0	0	12	Not evalu ated	Evalu ated	Not evalua ted	Not evalu ated	Not evalu ated	Evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Process evaluation of implement ation evaluated
Lee, C. T., et al. (2016). "Evaluation of a National Call Centre and a Local Alerts System for Detection of New Cases of Ebola Virus Disease - Guinea, 2014-2015." MMWR. Morbidity and mortality weekly report 65(9): 227-230. [20]	Very low	1	2	2	1	1	0	2	0	0	0	9	Not evalu ated	Not evalu ated	Not evalua ted	Not evalu ated	Evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evaluated
Miller, L. A., et al. (2015). "Use of a nationwide call centre for Ebola response and monitoring during a 3-day house-to-house campaign - Sierra Leone, September 2014." MMWR. Morbidity and mortality weekly report 64(1): 28-29.	Low.	1	2	2	2	2	0	2	0	0	2	13	Not evalu ated	Not evalu ated	Not evalua ted	Not evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Response evaluated
Santa-Olalla, P., et al. (2013). "Implementation of an alert and response system in Haiti during the early stage of the response to the cholera epidemic." The American journal of tropical medicine and hygiene 89(4): 688-697. [28]	Very low	2	2	2	2	2	2	2	2	2	2	20	Evalu ated	Partly evalu ated	Not evalua ted	Not evalu ated	Not evalu ated	Partly evalu ated	Not evalu ated	Not evalu ated	Partly evalu ated	Not evalu ated	Exit strategy evaluated
Clara A et al: Factors Influencing Community Event-based Surveillance: Lessons Learned from Pilot Implementation in Vietnam. Health Security Volume 16, Number S1, 2018. DOI: 10.1089/hs.2018. 0066 (not published yet) [15]	Very low	2	2	2	2	2	2	2	2	1	1	18	Not evalu ated	Not evalu ated	Not evalua ted	Evalu ated	Not evalu ated	Partly evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Factors influencin g event incidence rate evaluated

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Clara, A., et al. (2018). "Event-Based Surveillance at Community and Healthcare Facilities, Vietnam, 2016- 2017." Emerging Infectious Diseases 24(9): 1649-1658. [16]	Very low	2	1	2	2	2	2	2	2	0	1	16	Partly evalu ated	Not evalu ated	Not evalua ted	Partly evalu ated	Not evalu ated	Evalu ated	Evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Sustainabi lity partly evaluated
Merali, S., et al. (2018). "Lessons Learned from Community Event-Based Surveillance Implementation in Ghana." ICEID. 2629.08.2018 Atlanta	Very low	2	2	2	1	2	2	2	1	0	0	14	Not evalu ated	Not evalu ated	Not evalua ted	Partly evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Lessons learned partly evaluated
Larsen, TM, et al. (2017). "Red Cross volunteers' experience with a mobile community event- based surveillance (CEBS) system in Sierra Leone during-and after the Ebola outbreak- A qualitative study". Health Prim Car 1(3):1-7. [17] & (2016). "A Qualitative Study of Volunteer Experiences With a Mobile Community Event based Surveillance (CEBS) System In Sierra Leone." JIID 53 Suppl: S116 [18]	Very low	1	1	1	1	2	2	1	0	0	1	10	Not evalu ated	Not evalu ated	Not evalua ted	Not evalu ated	Not evalu ated	Evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Volunteer experience s and lessons learned evaluated
Toyama, Y., et al. (2015). "Event-based surveillance in north-western Ethiopia: experience and lessons learnt in the field." Western Pacific surveillance and response journal: WPSAR 6(3): 22-27. [24]	Very low	0	1	2	1	2	1	2	2	0	2	13	Evalu ated	Partly evalu ated	Not evalua ted	Evalu ated	Partly evalu ated	Partly evalu ated	Evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evaluated
Oum, S., et al. (2005). "Community-based surveillance: a pilot study from rural Cambodia." Tropical Medicine & International Health 10(7): 689-697. [30]	Very low	2	2	2	2	2	1	2	2	2	1	18	Not evalu ated	Not evalu ated	Not evalua ted	Evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Resources needed: Costs and Training evaluated
Naser, A. M., et al. (2015). "Integrated cluster- and case-based surveillance for detecting stage III zoonotic pathogens: an example of Nipah virus surveillance in Bangladesh." Epidemiology & Infection 143(9): 1922-1930. [26]	Low.	2	2	2	2	2	1	1	1	0	2	15	Not evalu ated	Not evalu ated	Not evalua ted	Partly evalu ated	Partly evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evaluated
Sharma, R., et al. (2009). "Communicable disease outbreak detection by using supplementary tools to conventional surveillance methods under Integrated Disease Surveillance Project (IDSP), India." Journal of Communicable Diseases 41(3): 149-159. [29]	Very low	1	1	2	0	1	0	0	0	0	0	5	Not evalu ated	Not evalu ated	Not evalua ted	Partly evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evaluated
Tante, S., et al. (2015). "Which surveillance systems were operational after Typhoon Haiyan?" Western Pacific surveillance and response journal: WPSAR 6(Supplement 1): 66-70. [25]	Very low	0	2	1	0	1	1	1	0	0	0	6	Not evalu ated	Not evalu ated	Not evalua ted	Not evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Evalu ated	Compleme ntary function of IBS, EBS & syndromic surv. partly evaluated
Dagina, R., et al. (2013). "Event-based surveillance in Papua New Guinea: strengthening an International Health Regulations (2005) core capacity." Western Pacific surveillance and response journal: WPSAR 4(3): 19-25.	Very low	1	1	1	1	2	1	2	1	2	1	13	Partly evalu ated	Not evalu ated	Not evalua ted	Evalu ated	Not evalu ated	Not evalu ated	Partly evalu ated	Not evalu ated	Not evalu ated	Not evalu ated	Laborator y confirmati on evaluated