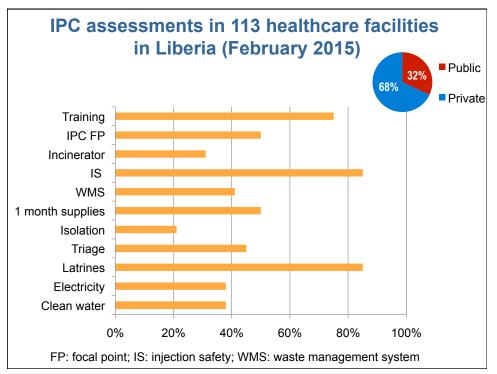
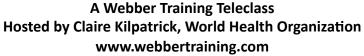
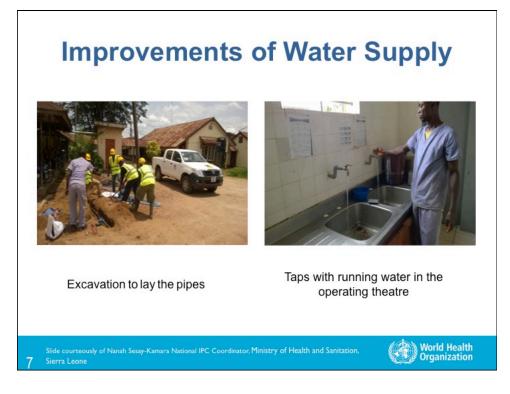


Provision of water, sanitation and hygiene services in healthcare facilities									
	Access to an improved water source within 500 m			Access to improved sanitation facilities			Access to soap for handwashing		
WHO Regions	Number of facilities*	Number of countries	Coverage (mean)	Number of facilities	Number of countries	Coverage (mean)	Number of facilities	Number of countries	Coverage (mean)
All	66,101	54	62%	62,524	36	81%	40,536	35	65%
AFRO	52,674	23	58%	51,715	16	84%	31,984	14	64%
AMRO	3,026	16	70%	1,425	11	57%	1,442	11	65%
EMRO	5,778	3	_	5,510	2	_	5,510	2	—
EURO	527	3	_	527	3	_	420	2	_
SEARO	3,596	6	78%	3,347	4	_	1,180	4	_
WPR0	500	3	_	0	0	_	0	0	_
Cour	itry		N°of	Water	coverage	Sani	tation	Soap f	or HW

Country	healthcare facilities (HCFs)	in HCFs	coverage in HCFs	availability
Guinea	1401		13%	
Liberia (2013)	328	50%	91%	54%
Sierra Leone	1264	62%	78%	95%



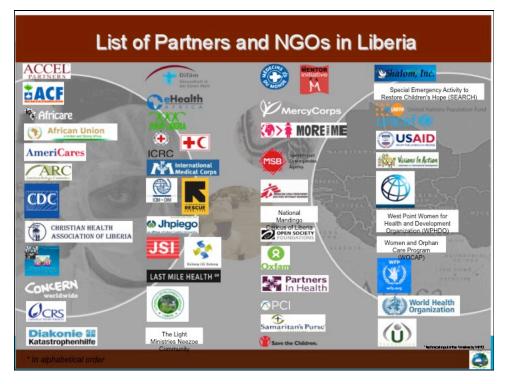




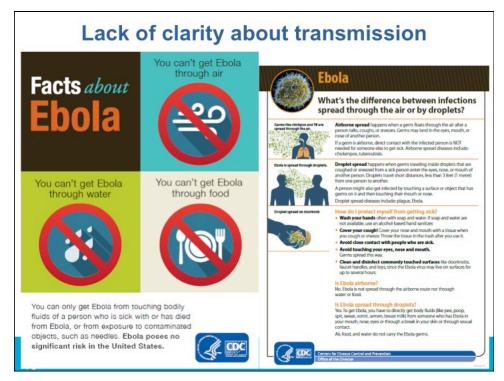
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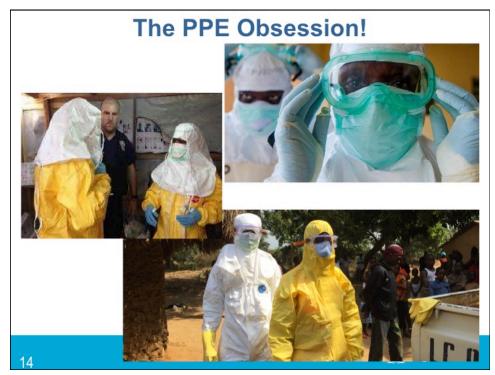




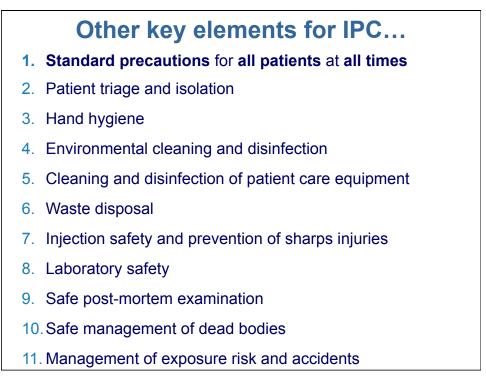


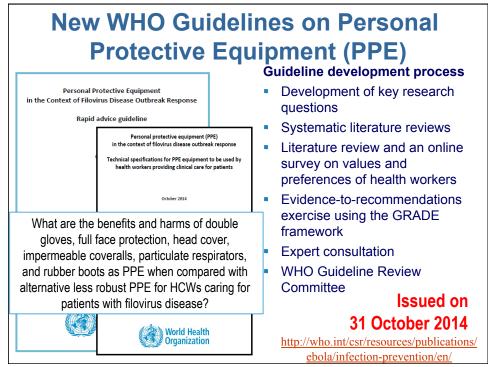
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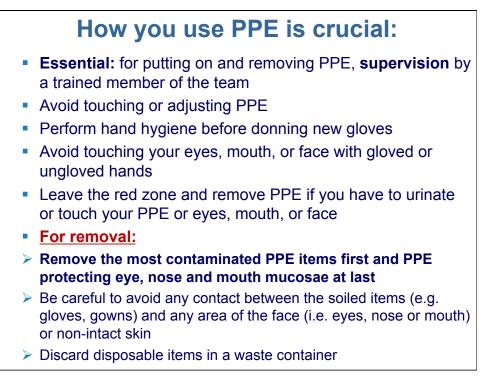




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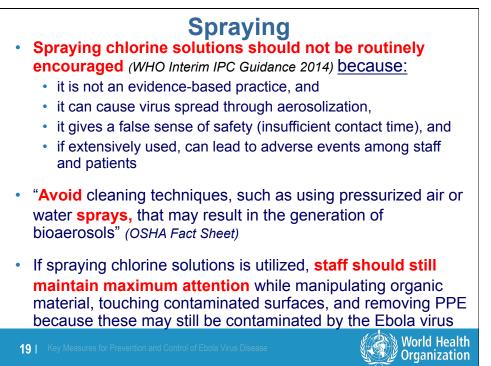


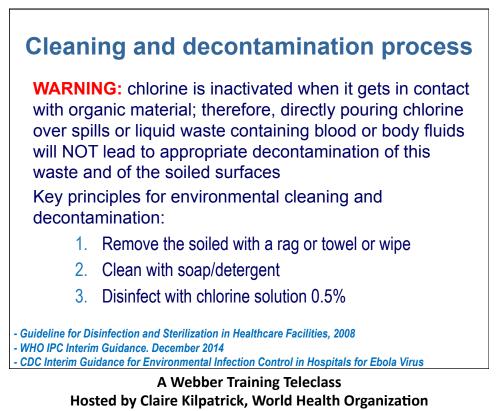






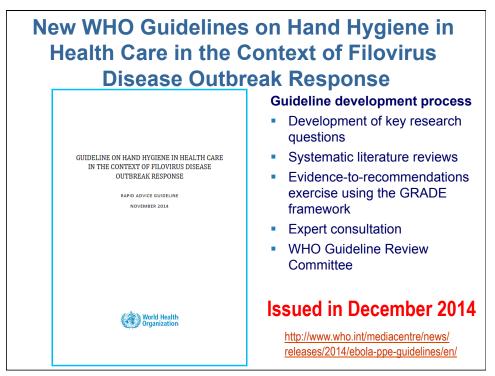
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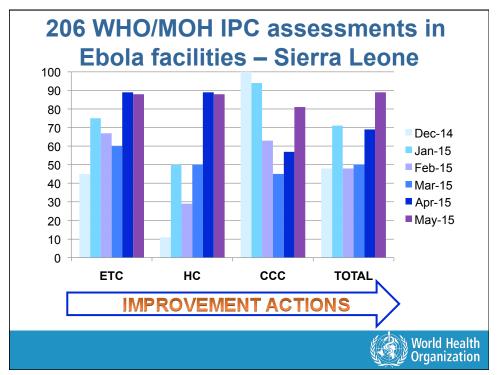




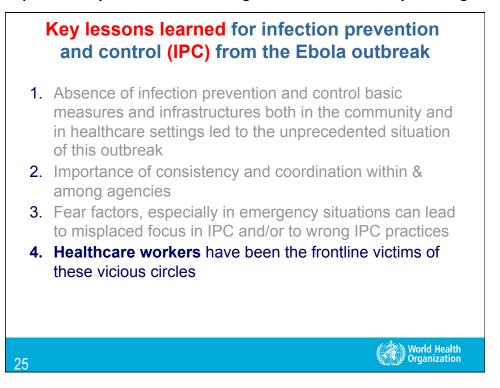
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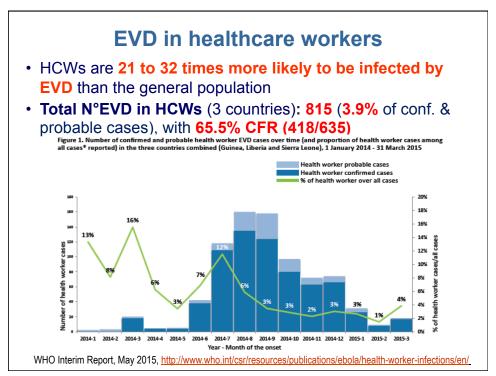


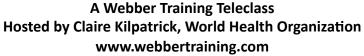




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	NON-HEALTH WORKERS ≥15 ¹ % [95% CI] (n)	HEALTH WORKERS % [95% CI] (n)		GUINEA % [95% CI] (n)	LIBERIA % [95% CI] (n)	SIERRA LEONE % [95% CI] (n)
Health worker position category ^{3,4}	Not applicable	N=718* Missing=97	Not applicable	N=191 Missing=8	N=228 Missing=60	N=292 Missing=29
Medical workers		12% [9.3-14.1] (83)		30% [23.5-36.9] (57)	7% [4.1-11.1] (16)	3% [1.7-6.2] (10)
Nursing workers⁵		52% [48.2-55.7] (373)		45% [37.8-52.4] (86)	53% [45.9-59.3] (120)	57% [51.3-62.9] (167)
Midwifery workers		3% [2.0-4.8] (23)		4% [1.5-7.4] (7)	2% [0.7-5.0] (5)	4% [1.9-6.6] (11)
Ambulance workers		3% [1.9-4.6] (22)		6% [2.9-10.1] (11)	1 % [0.1-3.1] (2)	3% [1.4-5.8] (9)
Laboratory workers		7% [5.0-8.8] (48)		5% [2.2-8.8] (9)	7% [3.7-10.6] (15)	8% [5.3-12.0] (24)
Pharmacy workers		3% [1.8-4.4] (21)		1% [0.0-3.7] (2)	5% [2.7-9.0] (12)	2% [0.6-4.2] (7)
Community health workers		3% [2.2-4.9] (24)		1% [0.0-2.9] (1)	1% [0.3-3.8] (3)	7% [4.2-10.4] (20)
Trade and elemen- tary workers		7% [4.8-8.6] (47)		5% [2.2-8.8] (9)	8% [4.7-12.2] (18)	7% [4.2-10.4] (20)
All others		11% [8.6-13.2] (77)		5% [2.2-8.8] (9)	16% [11.7-21.7] (37)	11% [7.33-14.7] (31)

	NON-HEALTH WORKERS ≥15 ¹ % [95% CI] (n)	HEALTH WORKERS % [95% CI] (n)		GUINEA % [95% CI] (n)	LIBERIA % [95% CI] (n)	SIERRA LEONE % [95% CI] (n)
Sex	N=15976 Missing=256	N= 814 Missing= 1	p-value	N=199 Missing=0	N=287 Missing=1	N=328 Missing=0
Female	52% [51.1-52.7] (8296)	39% [35.2-42.0] (314)	<0.01	23% [17.0-29.1] (45)	42% [36.0-47.8] (120)	45% [39.9-51.0] (149)
Male	48% [47.3-48.8] (7680)	61% [58.0-64.8] (500)	-0.01	77% [70.9-83.0] (154)	58% [52.2-64.0] (167)	55% [49.0-60.1] (179)
Age-group	N=15265 Missing=967	N=792 Missing=23	p-value	N=199 Missing=0	N=276 Missing=12	N=317 Missing=11
15-29	36% [35.5-37.1] (5541)	22% [18.8-24.6] (171)		29% [22.5-35.5] (57)	15% [10.6-19.2] (40)	23% [18.8-28.4] (74)
30-44	35% [34.1-35.6] (5323)	47% [43.8-50.9] (375)	<0.01	46% [39.2-53.4] (92)	51% [45.0-57.1] (141)	45% [39.2-50.5] (142)
45+	29% [28.1-29.6] (4401)	31% [27.9-34.4] (246)		25% [19.3-31.7] (50)	34% [28.8-40.4] (95)	32% [26.8-37.3] (101)
Hospitalization	N= 10946 Missing=5286	N=749 Missing=66	p-value	N=189 Missing=10	N=263 Missing=25	N=297 Missing=31
Yes	62% [60.8-62.6] (6754)	77% [73.4-79.6] (574)	<0.01	96% [92.5-98.5] (182)	71% [64.8-76.2] (186)	69% [63.8-74.6] (206)
No	38% [37.4-39.2] (4192)	23% [20.4-26.6] (175)	<0.01	4% [1.5-7.5] (7)	29% [23.8-35.2] (77)	31% [25.4-36.2] (91)
Final outcome ²	N=8474 Missing=7758	N=635 Missing=180	p-value	N=196 Missing=3	N=220 Missing=68	N=219 Missing=109
Alive	30% [28.8-30.8] (2523)	34% [30.5-38.0] (217)	0.02	44% [37.3-51.6] (87)	29% [22.8-35.1] (63)	31% [24.6-37.2] (67)
Dead	70% [69.2-71.2] (5951)	66% [62.0-69.5] (418)	0.02	56%[48.4-62.7] (109)	71% [64.9-77.2] (157)	69%[62.8-75.4] (152)

Circumstances leading to Exposure	Total Citations
1 Insufficient / Inadequate PPE / Inconsistent use of PPE	17
2 Unrecognized Ebola patients	7
3 No soap, chlorine/beach/cleaning supplies, running water, electricity, working waste disposal system	7
4 Isolation Areas/Setup - Improper / Inadequate	4
5 Barrier Nursing - Improper / Inadequate / Absent	3
6 Hygiene / Contaminated Equipment - Surfaces	3
7 Washing hands inconsistencies/inadequacies or no hand washing stations	3
8 Rubbed eyes with soiled glove	3
9 HCW providing nursing care at home	2
10 Cadever exposure in hospital and public	2
29	World Health Organization

Key lessons learned for infection prevention and control (IPC) from the Ebola outbreak

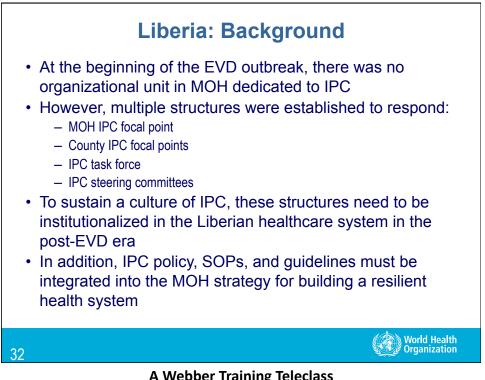
- 1. Absence of infection prevention and control basic measures and infrastructures both in the community and in healthcare settings led to the unprecedented situation of this outbreak
- 2. Lack of consistency and coordination within & among agencies
- **3.** Fear factors, especially in emergency situations can lead to misplaced focus in IPC and/or to wrong IPC practices
- 4. Healthcare workers have been the frontline victims of these vicious circles
- 5. At least, the Ebola outbreak has given the **opportunity to** get IPC on the top of the national and international agendas

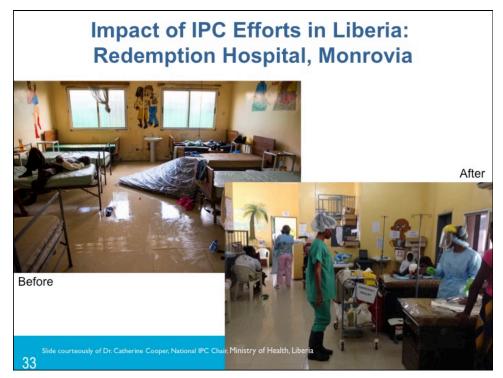
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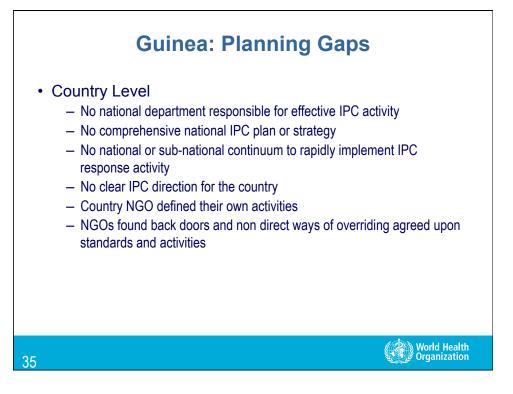
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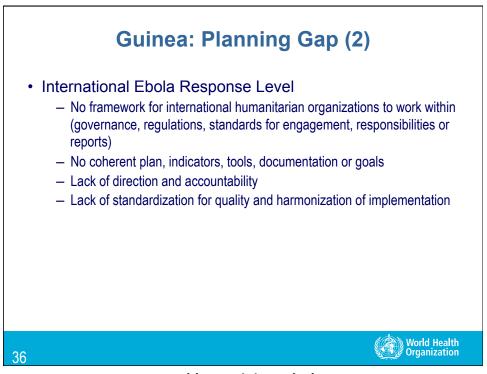




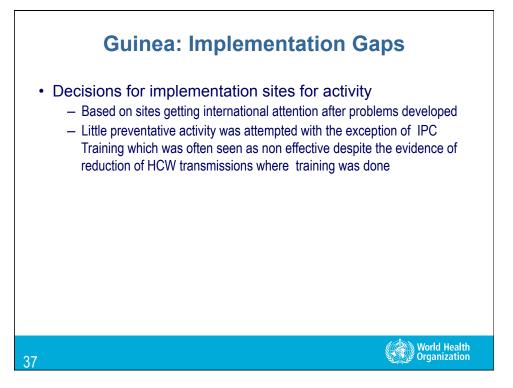


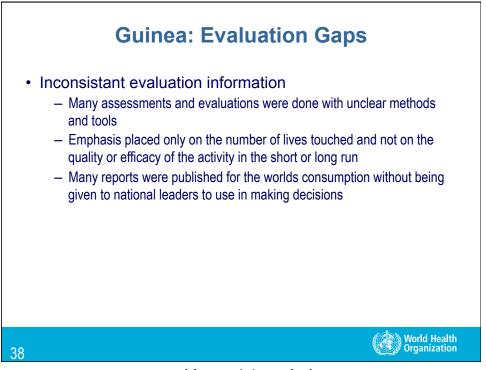


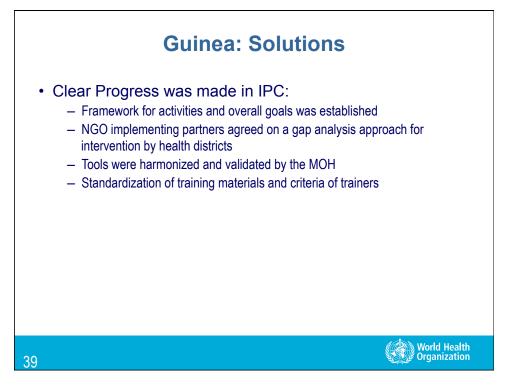


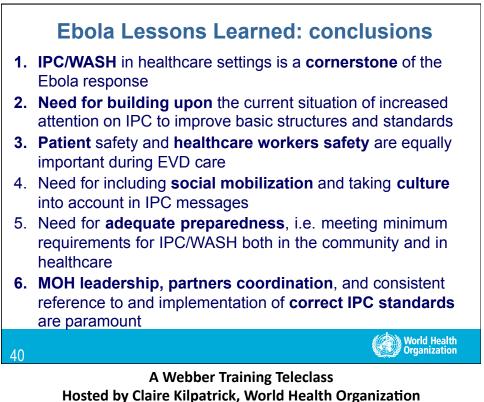


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February 17, 2016

SUCCESSFUL IMPLEMENTATION STRATEGY FOR THE PREVENTION OF SURGICAL SITE INFECTIONS



Prof. Sean Berenholtz Departments of Anesthesiology/Critical Care Medicine and Surgery Johns Hopkins University School of Medicine Baltimore, MD

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