

YELLOW FEVER OUTBREAK IN ANGOLA INCIDENT MANAGEMENT

SITUATION REPORT 13 June 2016

Vol: 6-02

I. Key Highlights

- ♦ MoH-Angola, WHO and partners decided to scale up response activities to yellow fever in Angola. This will include ensuring a continued presence in high risk provinces for the duration of the outbreak. Inter-agency planning of scaling up is under way. MOH-Angola is creating a roster of public health and epidemiologist experts to contribute to the scale up of response activities at the province level
- A process to identify high risk provinces in need of additional support was started at several levels, including risk prioritization performed by IMS team and MoH-Angola in Luanda in combination with risk modelling performed by WHO, Imperial College of London and KEMRI-Oxford University
- ♦ WHO and partners are planning a technical process review mission of the yellow fever response to be conducted in the coming weeks
- New cases with local transmission were documented in Soyo and Londuimbale districts. As a response 243,690 vaccine doses will be sent to border district of Soyo, Zaire Province, for mass vaccination with a multi-agency vaccination team. The mass campaign is planned to start this week
- ♦ Mass vaccination campaigns are underway in the border districts of Chitato and Coango (Lunda Norte). Additional campaigns are being planned across the country
- ♦ 1,036,500 doses of vaccine arrived in country and were designated for Coango, Chitato and Soyo districts

II. Epidemiological Situation as of 10 June 2016

\Rightarrow In wee k 23 (04 June to 10 June):

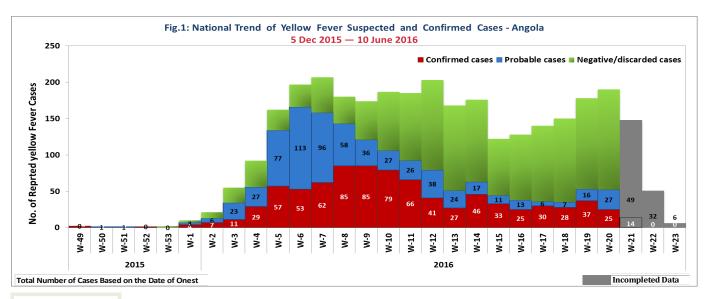
- 182 cases were reported this week of which 13 cases were confirmed by the laboratory as yellow fever. Overall 16 deaths were reported. Most of the cases and deaths reported this week had dates of onset in previous weeks
- Cases were reported from 12 districts in 13 provinces. Zero newly confirmed reported province or district (Figure 1)
- New local transmission was documented in 2 districts: Soyo (Zaire province) and Londuimbale (Cunene province), (Table 4.1 & 4.2)

⇒ Cumulative statistics since 05 December:

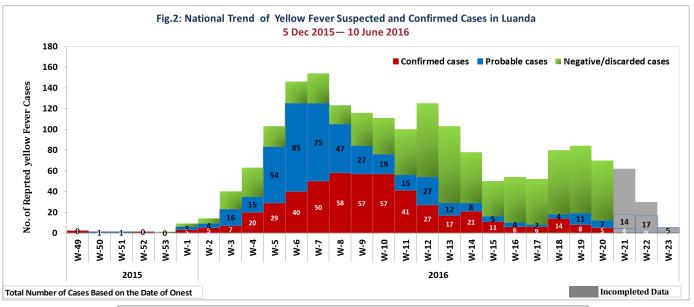
- A total of 3,137 suspected cases were reported of which 847 were laboratory confirmed. Overall, there has been 345 (CFR 11%) reported deaths among all suspected cases and 112 (CFR 13%) among confirmed cases.
- Laboratory confirmed cases were reported for 16 out of 18 provinces and 78 out
 of 121 reporting districts (Table 2). Luanda province reported the majority of the
 confirmed cases 489 (57.7%) (Table.2 & Figure.5)
- Local transmission has been documented in 43 districts in 11 provinces (Table 4.1 & 4.2)
- The majority of the confirmed cases were 15-19 yrs; 209 (21.1%), followed or 20—24 yrs; 168 (16.4%); Most of them were males, (Figure 3).

Table 1: National Summary of Yellow Fever Outbreak

Yellow Fever Outbreak Summary 04 June — 10 June 2016	, (W23)
Reported cases	182
Samples tested	182
Confirmed cases	13
Total Deaths	16
Total provinces that reported cases	13
New provinces with confirmed cases	0
Total districts with reported cases	12
New districts with confirmed cases	0
New districts with documented local transmission	2
Yellow Fever Outbreak Summary from 5 Dec 2015— 10 Ju	ine 2016
Total cases reported to central level	3,137
Total Samples Tested	2,658
Total confirmed cases	847
Total deaths	345
Total deaths among confirmed cases	112
Total provinces that have reported cases	18
Total provinces with confirmed cases	16
Total districts that have reported cases	121
Total districts with confirmed cases	78
Total provinces with documented local transmission	11
Total districts with documented local transmission	43
Total number of provinces in Angola	18
Total number of districts in Angola	166



Source: MOH, Angola



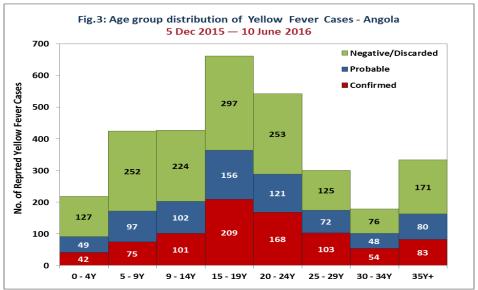


Table.2: Angola Provinces with Laboratory Confirmation of Yellow Fever as of 10 June, 2016

(5 Dec 2015-10 June 2016) Discarded, La **Province** with Vacc. Tested Confirmed Notified History Cases No % No % Bengo Benguela Cabinda Cuando Cubango Cuanza Norte Cuanza Sul Cunene Huambo Huila Luanda Lunda Norte Lunda Sul Malange O Moxico Namibe Uige Zaire TOTAL

Fig.4: Yellow Fever Cases with Local Transmission and Vaccination in Angola Province and District

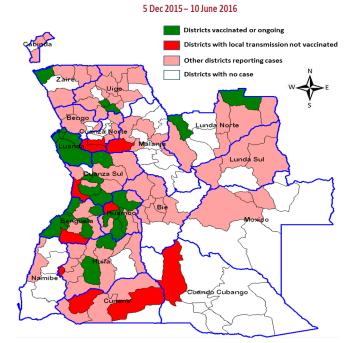
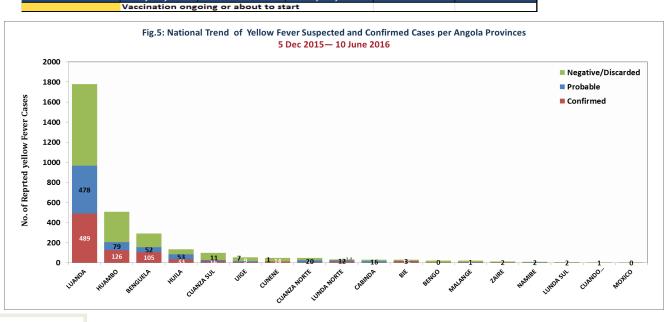


Table:3 Distribution of Yellow Fever Vaccination Coverage in Angola as of 10 June 2016

Cacuaco 887,829 29-Feb-16 770,260 87% 87.89% 93.89% 1colo e Bengo 75,103 29-Feb-16 819,000 94% 94.39% 1colo e Bengo 75,103 29-Mar-16 181,000 94% 94.39% 1colo e Bengo 75,103 29-Mar-16 181,000 94% 94.39% 1colo e Bengo 75,103 29-Mar-16 181,000 194% 91.39% 181,59% 181,39% 181,59% 181,39% 181,59% 181,39% 181,59% 181,397 181,39% 181,39% 181,39% 181,397 181,39% 181,397 181,39% 181,397 181,39% 181,397 181,39% 181,397 181,39% 181,397 181,39% 181,397 181,39% 181,397 181,39% 181,397 181,39% 181,397 181,39% 181,397 181,39% 181,397 181,39% 181,397 181,39% 181,397 181,39% 181,397 181,39% 181,397 181,39% 181,397 181,39% 181,397 181,39% 181,397 1		Target		Population	Administrative	IM Percent		
Cacuaco 887,829 29-Feb-16 770,260 87% 87.8% 24.2 Cazenga 867,659 29-Feb-16 819,000 94% 94.3% 10.5 Cazenga 867,659 29-Feb-16 819,000 94% 94.3% 10.5 Cazenga 867,659 29-Feb-16 819,000 94% 94.3% 10.5 Cazenga 867,659 21.3 Cazenga 1.5 Sa,630 16-May-16 213,263 33% 79.0 Cazenga 1.5 Sa,630 16-May-16 213,263 33% 79.0 Cazenga 1.5 Sa,630 16-May-16 213,263 22. Cazenga 2.5 Cazenga 2.	Province	population	Launching date	vaccinated	coverage (%)	vaccinated*		
Cazenga 867,659 29-Feb-16 819,000 94% 94.3% Isclobe Bengo 75,103 28-Mar-16 38,446 51% 81.5% Ingombota 89,556 24-Mar-16 61,342 68% 91.3% Ingombota 640,006 10-Mar-16 213,263 33% 91.3% K. Kiaxi 640,006 10-Mar-16 213,263 33% 99.3% Outsama 25,240 28-Mar-16 13,774 55% 99.3% 99.3% Outsama 25,240 28-Mar-16 13,774 55% 99.3% 99.3% Outsama 25,240 28-Mar-16 43,366 32% 94.4% Sambla 160,174 24-Mar-16 55,358 35% 91.3% Samblanga 433,970 20-Mar-16 216,689 31% 79.7% Viana 1,535,102 2-Feb-16 2,124,190 138% 85.3% Elaid 103,623 16-May-16 10,116 101% Elaid 101% Elaid 101% Elaid 101% Elaid Elaid 101% Elaid Elaid 101% Elaid El	Belas	1,071,662	19-Feb-16	1,287,998	120%			
Icolo e Bengo	Cacuaco	887,829	29-Feb-16	770,260	87%	87.8%		
Ingombota 89,556 24-Mar-16 61,342 68% 91,39% K. Kiaxi 640,006 10-Mar-16 21,263 33% 79,09% Malanga 660,884 14-Mar-16 485,645 73% 99,99% Quissama 25,240 28-Mar-16 13,774 55% 99,99% Quissama 25,240 28-Mar-16 13,774 55% 99,11% Rangel 136,031 28-Mar-16 53,538 35% 94,49% Sambla 160,174 24-Mar-16 55,538 35% 94,49% Samblanaga 433,970 20-Mar-16 136,689 31% 79,79% Viana 1,535,102 2-Feb-16 2,124,190 138% 85,39% Luanda 6,583,216 6,049,331 92% Baia Farta 103,623 16-May-16 105,116 101% Baia Farta 103,623 16-May-16 101,700 102% Benguela 531,744 12-Apr-16 488,449 92% Catumbela 173,601 13-Apr-16 188,421 109% Cubal 289,703 16-May-16 288,421 109% Cubal 289,703 16-May-16 356,144 106% Chorongol 81,977 380,509 Cuanza Norte 226,669 Cuanza Sul 1,071,971 Ballundo 283,887 16-May-16 159,999 91% Sounds 269,341 Cuanza Sul 1,071,971 Ballundo 283,887 16-May-16 159,999 91% Ballundo 283,887 16-May-16 159,999 Sounds 269,341 Cuanza Sul 1,071,971 Ballundo 283,887 16-May-16 16,8781 Ballundo 283,887 16-May-16 16,938 Change 148,4206 Caconda 166,892 16-May-16 16,938 Change 148,4206 Caconda 166,892 16-May-16 16,938 Childo 1,144,690 Childo 1,144,690 Childo 1,144,690 Childo 1,144,690 Childo	Cazenga		29-Feb-16					
K. Kiaxi 640,006 10-Mar-16 213,263 33% 79.0% Maianga 660,884 14-Mar-16 485,645 73% 99.8% 99.8% 25,240 28-Mar-16 13,774 55% 99.8% 99.8% 25,240 28-Mar-16 13,774 55% 99.1.1% 28-Mar-16 43,366 32% 94.4% 5amba 160,174 24-Mar-16 55,358 35% 99.1.3% 5ambia 160,174 24-Mar-16 55,358 35% 99.1.3% 5ambia 150,174 24-Mar-16 55,358 35% 99.1.3% 5ambia 1,535,102 2-Feb-16 5,124,190 138% 86.3% 5ambia 15,555,102 2-Feb-16 5,124,190 138% 86.3% 5ambia 150,000 15,555,102 2-Feb-16 10,1740 138% 86.3% 5ambia 150,000 1	Icolo e Bengo			_				
Malanga 660,884 14-Mar-16 485,645 73% 99.8% (Oulssama 25,240 28-Mar-16 13,774 55% 91.11% Rangel 136,031 28-Mar-16 43,366 32% 94.4% 53mba 160,174 24-Mar-16 55,358 35% 91.3% 79.7% 100,174 136,000 138% 100,174 136,000 138% 100,174 136,000 138% 100,174 136,000 138% 100,174 136,000 138% 100,174 136,000 138% 100,174 136,000 138% 100,174 136,000 138% 100,174 136,000 138% 100,174 136,000 138% 100,174 136,000 138% 100,174 136,000 138% 100,174 136,000 138% 100,174 136,000 138% 100,174 136,000 138% 100,174 136,000 138,000 1	Ingombota							
25,240 28-Mar-16 13,774 55% 91.1%	K. Kiaxi	640,006	10-Mar-16	213,263	33%	79.0%		
Rangel 136,031 28-Mar-16 43,366 32% 94.4% Sambla 160,174 24-Mar-16 55,358 35% 91.3% 79.7% 179	Maianga							
Samba 160,174 24-Mar-16 55,358 35% 91,39% Sambizanga 433,970 20-Mar-16 136,689 31% 79,7% 77%								
Sambizanga 433,970 20-Mar-16 136,689 31% 79.7% 15.95.100 1.33% 86.3% 1.535.100 2.7-E-b-16 2.124,190 1.33% 86.3% 1.535.101 10.5,523 16-May-16 105,110 101%								
Viana								
Luanda								
Baia Farta 103,623 16-May-16 105,116 101% Balombo 99,932 16-May-16 101,700 102% Benguela 531,744 12-Apr-16 489,449 92% Catumbela 173,601 13-Apr-16 188,421 109% Catumbela 173,601 13-Apr-16 356,144 106% Chorongoi 81,977			2-Feb-16			86.3%		
Balombo 99,932 16-May-16 101,700 102% Benguela 531,744 12-Apr-16 489,449 92% Catumbela 173,601 13-Apr-16 188,421 109% Cubal 289,703 16-May-16 297,264 103% Cubal 289,703 16-May-16 356,144 106% Chorongol 81,977 Benguela 1,534,204 1,538,094 Menongue 308,509 Cargo Cubango 166,860 Cuanza Norte 228,069 Ambaia 236,339 16-May-16 119,946 82% Cassongue 145,579 16-May-16 151,891 96% Libbolo 85,630 16-May-16 151,891 96% Libbolo 85,630 16-May-16 159,999 91% Sumbe 269,341 Cuanza Sul 1,071,971 706,756 Ballundo 283,887 16-May-16 222,811 83% Ekunha 79,334 16-May-16 222,811 83% Ekunha 79,334 16-May-16 558,150 81% Ekunha 79,334 16-May-16 558,150 81% Ukuma 42,950 16-May-16 155,909 95% Huambo 1,364,206 Caconda 160,892 16-May-16 16,7102 104% Lubango 736,077 16-May-16 16,7102 104% Lubango 736,077 16-May-16 16,7102 104% Lubango 174,429 27-May-16 168,271 39% Ukuma 83,267 Huambo 489,867 Malange 42,956 16-May-16 16,732 95% Ukuge 496,567 16-May-16 129,732 95% Ukuge 496,567 16-May-16 129,732 95% Ukuge 496,567 16-May-16 169,732 95% Ukuge 496,567 16-May-16								
Benguela 531,744 12-Apr-16 489,449 92% Catumbela 173,601 13-Apr-16 188,421 109% Cubal 289,703 16-May-16 297,264 103% Lobito 335,601 13-Apr-16 356,144 106% Chorongol 81,977 Senguela 1,534,204 1,538,094								
Catumbela								
Cubal 289,703 16-May-16 297,264 103% Lobito 335,601 13-Apr-16 356,144 106% Chorongoi 81,977 356,144 106% Benguela 1,534,204 1,538,094 Menongue 308,509 308,509 Cuango Cubango 166,860 308,509 Cazengo 166,860 228,069 Amboim 236,339 16-May-16 216,637 92% Cassongue 145,579 16-May-16 151,891 96% Libolo 85,630 16-May-16 151,891 96% Libolo 85,630 16-May-16 159,999 91% Sumbe 269,341 269,341 270,735 95% Caala 268,734 13-Apr-16 22,811 83% Ekunha 79,334 16-May-16 75,022 95% Huambo 689,301 13-Apr-16 558,150 81% Ukuma 42,950 16-May-16 16,7102 104%								
Lobito 335,601 13-Apr-16 356,144 106% Chorongoi 81,977 Senguela 1,534,204 1,538,094								
Senguela 1,534,204 1,538,094	Lobito							
Benguela 1,534,204 1,538,094 Menongue 308,509	Chorongoi		1	,				
Cuango Cubango 308,509 Ambaca 61,209 Cazengo 166,860 Cuanza Norte 228,669 Amboim 236,339 16-May-16 216,637 92% Cassongue 145,579 16-May-16 119,946 82% Ebo 159,024 16-May-16 151,891 96% Libolo 85,630 16-May-16 58,283 68% Seles 176,058 16-May-16 159,999 91% Sumbe 269,341 269,341 270,735 95% Cuanza Sul 1,071,971 706,756 70,735 95% Bailundo 283,887 16-May-16 270,735 95% Caala 268,734 13-Apr-16 222,811 83% Ekunha 79,334 16-May-16 75,022 95% Huambo 689,301 13-Apr-16 588,150 81% Ukuma 42,950 16-May-16 47,348 110% Huambo 1,364,206	Benguela	1,534,204		1,538,094				
Cuango Cubango 308,509 Ambaca 61,209 Cazengo 166,860 Carengo 166,860 Cuanza Norte 228,069 Amboim 236,339 16-May-16 216,637 92% Cassongue 145,579 16-May-16 119,946 82% Ebo 159,024 16-May-16 151,891 96% Libolo 85,630 16-May-16 58,283 68% Seles 176,058 16-May-16 159,999 91% Sumbe 269,341 269,341 270,735 95% Cala 283,887 16-May-16 270,735 95% Caala 268,734 13-Apr-16 222,811 83% Ekunha 79,334 16-May-16 75,022 95% Huambo 689,301 13-Apr-16 258,150 81% Ukuma 42,950 16-May-16 47,348 110% Huambo 1,364,206 1,174,066 1,274,066 Caconda 160,892 16-May-16 <td>Menongue</td> <td>308,509</td> <td></td> <td></td> <td></td> <td></td>	Menongue	308,509						
Ambaca 61,209 166,860								
Cazengo 166,860 Cuanza Norte 228,069 Amboim 236,339 16-May-16 216,637 92% Cassongue 145,579 16-May-16 119,946 82% Ebo 159,024 16-May-16 151,891 96% Lilbolo 85,630 16-May-16 58,283 68% Seles 176,058 16-May-16 159,999 91% Sumbe 269,341 706,756 766 Baillundo 283,887 16-May-16 270,735 95% Caala 268,734 13-Apr-16 222,811 83% Ekunha 79,334 16-May-16 75,022 95% Huambo 689,301 13-Apr-16 558,150 81% Ukuma 42,950 16-May-16 47,348 110% Huambo 1,364,206 1,174,066 1,174,066 Caconda 160,892 16-May-16 167,102 104% Lubango 736,077 16-May-16 168,781								
Cuanza Norte 228,069 Amboim 236,339 16-May-16 216,637 92% Cassongue 145,579 16-May-16 119,946 82% Ebo 159,024 16-May-16 151,891 96% Libolo 85,630 16-May-16 58,283 68% Seles 176,058 16-May-16 159,999 91% Sumbe 269,341 97 97 95% Cuanza Sul 1,071,971 706,756 95% Bailundo 283,887 16-May-16 270,735 95% Caala 268,734 13-Apr-16 222,811 83% Ekunha 79,334 16-May-16 75,022 95% Huambo 689,301 13-Apr-16 558,150 81% Ukuma 42,950 16-May-16 47,348 110% Huambo 1,364,206 1,74,066 14,70,066 Caconda 160,892 16-May-16 169,781 114% Humpata 83,267								
Amboim 236,339 16-May-16 216,637 92% Cassongue 145,579 16-May-16 119,946 82% Ebo 159,024 16-May-16 151,891 96% Libolo 85,630 16-May-16 58,283 68% Seles 176,058 16-May-16 159,999 91% Sumbe 269,341 70,71,971 706,756 81		-						
Cassongue 145,579 16-May-16 119,946 82% Ebo 159,024 16-May-16 151,891 96% Libolo 85,630 16-May-16 58,283 68% Seles 176,058 16-May-16 159,999 91% Sumbe 269,341 706,756 270,735 95% Cala 283,887 16-May-16 270,735 95% Cala 268,734 13-Apr-16 222,811 83% Ekunha 79,334 16-May-16 75,022 95% Huambo 689,301 13-Apr-16 558,150 81% Ukuma 42,950 16-May-16 47,348 110% Huambo 1,364,206 1,174,066 1,174,066 Caconda 160,892 16-May-16 167,102 104% Lubango 736,077 16-May-16 16,781 114% Humpata 83,267 83,267 14,429 27-May-16 68,271 39% Chitato 196,8		-						
Telephone								
Libolo 85,630 16-May-16 58,283 68% Seles 176,058 16-May-16 159,999 91% Sumbe 269,341 Cuanza Sul 1,071,971 Bailundo 283,887 16-May-16 270,735 95% Caala 268,734 13-Apr-16 222,811 83% Ekunha 79,334 16-May-16 75,022 95% Huambo 689,301 13-Apr-16 558,150 81% Ukuma 42,950 16-May-16 47,348 110% Huambo 1,364,206 1,174,066 Caconda 160,892 16-May-16 167,102 104% Lubango 736,077 16-May-16 168,781 114% Humpata 83,267 Huila 1,128,054 350,821 Cuango 174,429 27-May-16 68,271 39% Chitato 196,869 68,271 Malange 489,867 Malange 489,867 Malange 489,867 Negage 136,323 16-May-16 129,732 95% Uige 632,890 753,870 119% Soyo 219,536 GRAND TOTAL 13,309,786	Cassongue	145,579	16-May-16	119,946	82%			
Seles 176,058 16-May-16 159,999 91% Sumbe 269,341 706,756 8 Bailundo 283,887 16-May-16 270,735 95% Caala 268,734 13-Apr-16 222,811 83% Ekunha 79,334 16-May-16 75,022 95% Huambo 689,301 13-Apr-16 558,150 81% Ukuma 42,950 16-May-16 47,348 110% Huambo 1,364,206 1,174,066 1 Caconda 160,892 16-May-16 167,102 104% Lubango 736,077 16-May-16 14,938 2% Quipungo 147,818 16-May-16 168,781 114% Humpata 83,267 83,267 83,267 83,267 Huila 1,128,054 350,821 350,821 Cuango 174,429 27-May-16 68,271 39% Chitato 196,869 68,271 39% Malange	Ebo	159,024	16-May-16	151,891	96%			
Sumbe 269,341 706,756 Quanza Sul 1,071,971 706,756 Bailundo 283,887 16-May-16 270,735 95% Caala 268,734 13-Apr-16 222,811 83% Ekunha 79,334 16-May-16 75,022 95% Huambo 689,301 13-Apr-16 558,150 81% Ukuma 42,950 16-May-16 47,348 110% Huambo 1,364,206 1,174,066 Caconda 160,892 16-May-16 167,102 104% Lubango 736,077 16-May-16 168,781 114% Humpata 83,267 44 14,938 2% Quipungo 147,818 16-May-16 168,781 114% Huila 1,128,054 350,821 350,821 Cuango 174,429 27-May-16 68,271 39% Chitato 196,869 68,271 39% Malange 489,867 Malange 489,867 <t< td=""><td>Libolo</td><td>85,630</td><td>16-May-16</td><td>58,283</td><td>68%</td><td></td></t<>	Libolo	85,630	16-May-16	58,283	68%			
Cuanza Sul 1,071,971 706,756 Bailundo 283,887 16-May-16 270,735 95% Caala 268,734 13-Apr-16 222,811 83% Ekunha 79,334 16-May-16 75,022 95% Huambo 689,301 13-Apr-16 558,150 81% Ukuma 42,950 16-May-16 47,348 110% Huambo 1,364,206 1,174,066 1,174,066 Caconda 160,892 16-May-16 167,102 104% Lubango 736,077 16-May-16 168,781 114% Humpata 83,267 14,938 2% Huila 1,128,054 350,821 144% Cuango 174,429 27-May-16 68,271 39% Chitato 196,869 68,271 39% Lunda Norte 196,869 68,271 489,867 Malange 489,867 489,867 489,867 489,867 Wige 632,890 753,870	Seles	176,058	16-May-16	159,999	91%			
Bailundo 283,887 16-May-16 270,735 95% Caala 268,734 13-Apr-16 222,811 83% Ekunha 79,334 16-May-16 75,022 95% Huambo 689,301 13-Apr-16 558,150 81% Ukuma 42,950 16-May-16 47,348 110% Huambo 1,364,206 1,174,066 Caconda 160,892 16-May-16 167,102 104% Lubango 736,077 16-May-16 14,938 2% Quipungo 147,818 16-May-16 168,781 114% Humpata 83,267 Huila 1,128,054 350,821 Cuango 174,429 27-May-16 68,271 39% Chitato 196,869 68,271 Malange 489,867 Malange 489,867 Malange 489,867 Negage 136,323 16-May-16 129,732 95% Uige 496,567 16-May-16 624,138 126% Uige 632,890 753,870 119% Soyoo 219,536 GRAND TOTAL 13,309,786	Sumbe	269,341						
Caala 268,734 13-Apr-16 222,811 83% Ekunha 79,334 16-May-16 75,022 95% Huambo 689,301 13-Apr-16 558,150 81% Ukuma 42,950 16-May-16 47,348 110% Huambo 1,364,206 1,174,066 1,174,066 Caconda 160,892 16-May-16 167,102 104% Lubango 736,077 16-May-16 14,938 2% Quipungo 147,818 16-May-16 168,781 114% Humpata 83,267 350,821 144 Cuango 174,429 27-May-16 68,271 39% Chitato 196,869 68,271 39% Lunda Norte 196,869 68,271 Malange Malange 489,867 489,867 8 Negage 136,323 16-May-16 129,732 95% Uige 632,890 753,870 119% Soyo 219,536 6 GRAND TOTAL 13,309,786 10,641,209	Cuanza Sul	1,071,971		706,756				
Caala 268,734 13-Apr-16 222,811 83% Ekunha 79,334 16-May-16 75,022 95% Huambo 689,301 13-Apr-16 558,150 81% Ukuma 42,950 16-May-16 47,348 110% Huambo 1,364,206 1,174,066 1,174,066 Caconda 160,892 16-May-16 167,102 104% Lubango 736,077 16-May-16 14,938 2% Quipungo 147,818 16-May-16 168,781 114% Humpata 83,267 350,821 144 Cuango 174,429 27-May-16 68,271 39% Chitato 196,869 68,271 39% Lunda Norte 196,869 68,271 Malange Malange 489,867 489,867 8 Negage 136,323 16-May-16 129,732 95% Uige 632,890 753,870 119% Soyo 219,536 6 GRAND TOTAL 13,309,786 10,641,209	Bailundo	283,887	16-May-16	270.735	95%			
Ekunha 79,334 16-May-16 75,022 95% Huambo 689,301 13-Apr-16 558,150 81% Ukuma 42,950 16-May-16 47,348 110% Huambo 1,364,206 1,174,066 104% Caconda 160,892 16-May-16 167,102 104% Lubango 736,077 16-May-16 14,938 2% Quipungo 147,818 16-May-16 168,781 114% Humpata 83,267 350,821 14,938 14,938 Cuango 174,429 27-May-16 68,271 39% Chitato 196,869 68,271 39% Lunda Norte 196,869 68,271 10,641,33 Malange 489,867 489,867 10,641,209 Negage 136,323 16-May-16 129,732 95% Uige 632,890 753,870 119% Soyo 219,536 375,870 119% GRAND TOTAL 13,309,786 10,641,209		268,734						
Huambo 689,301 13-Apr-16 558,150 81% Ukuma 42,950 16-May-16 47,348 110% Huambo 1,364,206 1,174,066 Caconda 160,892 16-May-16 167,102 104% Lubango 736,077 16-May-16 14,938 2% Quipungo 147,818 16-May-16 168,781 114% Humpata 83,267 Huila 1,128,054 350,821 Cuango 174,429 27-May-16 68,271 39% Chitato 196,869 68,271 39% Malange 489,867 Malange 489,867 Negage 136,323 16-May-16 129,732 95% Uige 496,567 16-May-16 624,138 126% Uige 632,890 753,870 119% Soyo 219,536 GRAND TOTAL 13,309,786 10.641,209								
Ukuma 42,950 16-May-16 47,348 110% Huambo 1,364,206 1,174,066 1,174,066 Caconda 160,892 16-May-16 167,102 104% Lubango 736,077 16-May-16 14,938 2% Quipungo 147,818 16-May-16 168,781 114% Humpata 83,267 114% 114% Huila 1,128,054 350,821 350,821 Cuango 174,429 27-May-16 68,271 39% Chitato 196,869 68,271 196,869 Lunda Norte 196,869 68,271 104 Malange 489,867 104 129,732 95% Wige 496,567 16-May-16 624,138 126% Uige 632,890 753,870 119% Soyo 219,536 10,641,209								
Huambo 1,364,206 1,174,066 Caconda 160,892 16-May-16 167,102 104% Lubango 736,077 16-May-16 14,938 2% Quipungo 147,818 16-May-16 168,781 114% Humpata 83,267								
Caconda 160,892 16-May-16 167,102 104% Lubango 736,077 16-May-16 14,938 2% Quipungo 147,818 16-May-16 168,781 114% Humpata 83,267 350,821 1 Huila 1,128,054 350,821 39% Cuango 174,429 27-May-16 68,271 39% Chitato 196,869 68,271 489,869 489,867 489,867 489,867 489,867 489,867 58 68,271 58 68,271 58 68,271 58 68,271 58 68,271 58 68,271 58 68,271 58 68,271 58 68,271 58 68,271 58 68,271 58 68,271 58 68,271 58 58 68,271 58 58 68,271 58 58 58 68,271 58 58 58 68,271 58			16-iviay-16		110%			
Lubango 736,077 16-May-16 14,938 2% Quipungo 147,818 16-May-16 168,781 114% Humpata 83,267 Huila 1,128,054 350,821 Cuango 174,429 27-May-16 68,271 39% Chitato 196,869 Lunda Norte 196,869 68,271 Malange 489,867 Malange 489,867 Negage 136,323 16-May-16 129,732 95% Uige 496,567 16-May-16 624,138 126% Uige 632,890 753,870 119% Soyo 219,536 Zaire 219,536 GRAND TOTAL 13,309,786 10,641,209								
Quipungo 147,818 16-May-16 168,781 114% Humpata 83,267 350,821 Huila 1,128,054 350,821 Cuango 174,429 27-May-16 68,271 39% Chitato 196,869 68,271 Lunda Norte 196,869 68,271 Malange 489,867 95% Malange 489,867 95% Negage 136,323 16-May-16 129,732 95% Uige 496,567 16-May-16 624,138 126% Uige 632,890 753,870 119% Soyo 219,536 753,870 119% Zaire 219,536 10,641,209								
Humpata 83,267 Huila 1,128,054 Cuango 174,429 27-May-16 68,271 39% Chitato 196,869 Lunda Norte 196,869 Malange 489,867 Malange 489,867 Negage 136,323 16-May-16 129,732 95% Uige 496,567 16-May-16 624,138 126% Uige 632,890 753,870 119% Soyo 219,536 GRAND TOTAL 13,309,786 10,641,209								
Huila 1,128,054 350,821 Cuango 174,429 27-May-16 68,271 39% Chitato 196,869 Lunda Norte 196,869 68,271 Malange 489,867 Malange 489,867 Negage 136,323 16-May-16 129,732 95% Uige 496,567 16-May-16 624,138 126% Uige 632,890 753,870 119% Soyo 219,536 GRAND TOTAL 13,309,786 10,641,209	Quipungo		16-May-16	168,781	114%			
Cuango 174,429 27-May-16 68,271 39% Chitato 196,869 68,271 Lunda Norte 196,869 68,271 Malange 489,867 95% Malange 489,867 95% Negage 136,323 16-May-16 129,732 95% Uige 496,567 16-May-16 624,138 126% Uige 632,890 753,870 119% Soyo 219,536 219,536 30 GRAND TOTAL 13,309,786 10,641,209	Humpata							
Chitato 196,869 Lunda Norte 196,869 68,271 Malange 489,867	Huila	1,128,054		350,821				
Lunda Norte 196,869 68,271 Malange 489,867	Cuango	174,429	27-May-16	68,271	39%			
Malange 489,867 Malange 489,867 Negage 136,323 16-May-16 129,732 95% Uige 496,567 16-May-16 624,138 126% Uige 632,890 753,870 119% Soyo 219,536 219,536 32 GRAND TOTAL 13,309,786 10,641,209	Chitato	196,869						
Malange 489,867 Negage 136,323 16-May-16 129,732 95% Uige 496,567 16-May-16 624,138 126% Uige 632,890 753,870 119% Soyo 219,536 3 3 Zaire 219,536 3 3 GRAND TOTAL 13,309,786 10,641,209	Lunda Norte	196,869		68,271				
Malange 489,867 Negage 136,323 16-May-16 129,732 95% Uige 496,567 16-May-16 624,138 126% Uige 632,890 753,870 119% Soyo 219,536 219,536 32 GRAND TOTAL 13,309,786 10,641,209	Malange	489,867						
Negage 136,323 16-May-16 129,732 95% Uige 496,567 16-May-16 624,138 126% Uige 632,890 753,870 119% Soyo 219,536 219,536 32,309,786 GRAND TOTAL 13,309,786 10,641,209	Malange	489,867						
Uige 496,567 16-May-16 624,138 126% Uige 632,890 753,870 119% Soyo 219,536 219,536 32,309,786 10,641,209			16-May-16	129,732	95%			
Uige 632,890 753,870 119% Soyo 219,536 219,536 Zaire 219,536 10,641,209								
Soyo 219,536 Zaire 219,536 GRAND TOTAL 13,309,786 10,641,209			10-iviay-10					
Zaire 219,536 GRAND TOTAL 13,309,786 10,641,209				733,870	113%			
GRAND TOTAL 13,309,786 10,641,209								
	GRAND TOTAL							

*IM Percent vaccinated estimated from Postvaccination Independent Monitoring

3



Source: MOH, Angola

Table 4.1: Yellow Fever Reported and Confirmed Cases per Angola Provinces and Districts, 2016 5 Dec 2015—10 June 2016

Province	Cases notified during the period (4 June — 10 June 2016)			Cumulative Cases (5 Dec 2015— 10 June 2016)			Documented	Date of onset	Date of onset of last	Average days of	Days since last case	last
	Reported	Confirmed	Deaths	Reported		Deaths	Local Transmission*	confirmed case*	confirmed case*	reporting delay	reported to central	confirmed
Belas	7	0	1	188	54	25	V	15/01/16	26/05/16	3	level 0	14
Cacuaco	2	0	0	216	78	22	Y	28/01/16	12/05/16	2	0	29
Cazenga	20	0	0	390	109	33	Y	18/01/16	27/05/16	2	0	14
Icolo e bengo	0	0	0	5	1	0	Y	08/03/16	08/03/16	3	11	94
Ingombota	0	0	0	16	4	0	Y	01/02/16	15/03/16	1	7	87
Kilamba kiaxi	10	0	0	222	68	18	Y	06/12/15	18/05/16	2	0	23
Maianga	3	0	2	113	28	11	Y	08/02/16	26/05/16	2	0	15
Quissama	0	0	0	1	1	0	N	24/04/16	24/04/16	1	44	47
Rangel	2	0	0	44	15	2	Y	29/01/16	02/05/16	3	0	39
Samba	1	0	0	24	5	2	Y	10/02/16	11/05/16	2	0	30
Sambizanga	3	0	0	85	30	13	Y	23/01/16	21/05/16	3	0	20
Viana	9 57	0	3	474	96 489	85 211	Y	05/12/15 05/12/15	14/05/16	2	0	27 14
LUANDA	0	0	0	1778		0			27/05/16		24	67
Ambriz Bula Atumba	0	0	0	1	0	0	N N	04/04/16	04/04/16	3	88	67
Dande	0	0	0	11	5	0	N	05/02/16	19/05/16	4	10	22
Nambuangongo	0	0	0	6	0	0	N	03/02/10	15/05/10	6	10	
BENGO	0	0	0	21	6	0	N	05/02/16	19/05/16	4	10	22
Baia Farta	2	0	1	13	9	3	Y	08/04/16	12/05/16	6	5	29
Balombo	10	0	0	30	6	2	Y	22/04/16	14/05/16	10	0	27
Benguela	30	5	5	128	57	13	Y	15/02/16	27/05/16	7	0	14
Bocoio	0	0	0	5	1	0	N	02/05/16	02/05/16	8	20	39
Caimbambo	0	0	0	5	1	0	N	26/02/16	26/02/16	4	32	105
Catumbela	4	1	1	33	6	1	Y	15/04/16	22/05/16	9	0	19
Chongoroi	1	1	1	6	5	1	Y	26/02/16	25/05/16	6	5	16
Cubal	0	0	0	6	3	1	Y	05/02/16	10/03/16	3	52	92
Ganda	0	0	0	5	3	0	N	10/02/16	28/02/16	5	85	103
Lobito	8	1	1	60	14	4	Y	22/01/16	19/05/16	6	0	22
BENGUELA	55	8	9	291	105	25	Y	22/01/16	27/05/16	7	0	14
Andulo	0	0	0	13	6	0	N	14/02/16	27/03/16	7	5	75
Camacupa Catabola	1	0	0	1	0	0	N	19/03/16	19/03/16	3	71 5	83
Chinguar	0	0	0	6	3	0	N	02/02/16	22/05/16	3	13	19
Cuito	0	0	0	5	4	1	N	30/01/16	18/04/16	5	32	53
Cunhinga	0	0	0	3	1	0	N	01/03/16	01/03/16	6	55	101
Nharea	0	0	0	1	1	0	N	22/02/16	22/02/16	11	98	109
BIE	5	0	0	30	16	2	N	30/01/16	22/05/16	6	5	19
Belize	1	0	0	1	0	0	N			4		
Bucu Zau	0	0	0	1	0	0	N	25/24/45	25/24/45	3	132	
Cabinda	3	0	0	29	1	1	N	25/01/16	25/01/16	7	0	137
CABINDA	4	0	0	31	1	1	N	25/01/16	25/01/16	7	0	137
Menongue	2	0	0	6	1	1	Y	18/04/16	18/04/16	8	5	53
CUANDO CUBANGO	2	0	0	6	1	1	Y	18/04/16	18/04/16	8	5	53
Ambaca	10	0	0	21	1	0	N	21/03/16	21/03/16	9	0	81
Cambambe	3	0	0	5	0	0	N	, =,=3	, -,	4	0	
Cazengo	2	1	1	20	4	7	Y	23/02/16	24/05/16	23	5	17
Lucala	0	0	0	1	0	0	N			46	70	
Samba Caju	1	0	0	1	0	0	N			0	1	
CUANZA NORTE	16	1	1	48	5	7	Υ	23/02/16	24/05/16	15	0	17
Amboim	2	0	0	7	2	1	Y	23/01/16	05/04/16	6	5	66
Cassongue	0	0	0	2	2	0	Y	02/02/16	02/02/16	19	94	129
Cela	0	0	0	7	1	0	N	04/02/16	04/02/16	5	45	127
Conda	1	0	0	2	0	0	N			6	5	
Ebo	4	0	0	34	4	1	Y	17/01/16	16/04/16	7	0	55
Libolo	0	0	0	4	1	1	Y	05/04/16	05/04/16	6	21	66
Mussende	0	0	0	2	0	0	N			4	43	
Porto amboim	0	0	0	5 1	0	2	N			2 8	14	
Quibala Quilenda	3	0	0	5	0	0	N N			6	52 0	
Seles	0	0	0	21	5	2	Y	05/02/16	11/05/16	6	14	30
Sumbe	0	0	0	9	1	2	Y	02/03/16	02/03/16	3	21	100
CUANZA SUL	1 0	0	0	99	16	9	Y	17/01/16	11/05/16	6	0	30
Cahama	2	0	0	16	5	0	Y	28/02/16	13/05/16	8	3	28
Cuanhama	1	0	0	16	4	1	Y	24/02/16	15/05/16	17	3	26
Curoca	0	0	0	3	0	0	N	2.,02/10	20,00,10	12	16	
										7		
Cuvelai	0	0	0	2	0	0	N			/	16	
Ombadja	0	0	0	11	5	1	N	01/02/16	17/04/16	6	3	54

Average days of reporting delay: average of difference between date of receipt of case report at national level and date of case notification

Days since last case reported to central level: difference between last day of reporting period (10/06/2016) and date of receipt at national level of report of last suspected case

Days since last confirmed case: difference between last day of reporting period (10/06/2016) and date of onset of last confirmed case.

Table 4.2: Yellow Fever Reported and Confirmed Cases per Angola Provinces and Districts, 2016 5 Dec 2015—10 June 2016

5 Dec 2015 — 10 June 2016												
		fied during t			mulative Ca		Documented	Date of onset	Date of	Average	Days since last case	Days since
Province	(4 Jun	e — 10 June	2016)	(5 Dec 2	015— 10 Jur	ne 2016)	Local	of first confirmed	onset of last confirmed	days of reporting	reported to	last confirmed
	Reported	Confirmed	Deaths	Reported	Confirmed	Deaths	Transmission*	case*	case*	delay	central level	case
Bailundo	2	0	0	84	11	4	Y	05/02/16	24/03/16	5	5	78
Caala	0	0	0	85	25	7	Υ	28/01/16	16/05/16	4	13	25
Catchiungo	2	0	0	31	2	0	N	18/03/16	29/04/16	5	5	42
Ecunha	0	0	0	71	20	4	Y	17/01/16	24/05/16	4	9	17
Huambo Londuimbale	5 0	0	0	143 27	41 7	12 7	Y	20/01/16 17/02/16	25/05/16 27/04/16	4	5 9	16 44
Longonjo	0	0	0	24	10	4	N	09/02/16	15/04/16	7	10	56
Mungo	0	0	0	14	2	2	N	06/02/16	01/03/16	4	20	101
Tchikala tcholohanga	1	0	0	11	3	0	N	16/03/16	07/04/16	3	5	64
Tchinjenje	0	0	0	3	1	0	N	01/04/16	01/04/16	5	22	70
Ukuma	0 10	0	0	15 508	4 126	4	Y	22/02/16	19/04/16	4	34	52
HUAMBO Caconda	0	0	0	28	10	44	Y	17/01/16 05/01/16	25/05/16 30/03/16	10	5 13	16 72
Cacula	0	0	0	8	4	1	N	23/02/16	15/05/16	6	13	26
Caluquembe	0	0	0	10	2	6	N	04/03/16	21/03/16	4	72	81
Chibia	0	0	0	2	1	0	N	08/02/16	08/02/16	1	112	123
Chicomba	0	0	0	11	1	0	N	02/02/16	02/02/16	5	9	129
Chipindo	0	0	0	1	0	0	N			5	45	
Cuvango	0	0	0	2	0	0	N	24/02/45	24/02/46	4	53	107
Gambos	0	0	0	5 11	3	0	N Y	24/02/16 09/02/16	24/02/16 28/04/16	3 5	91 30	107 43
Humpata Lubango	0	0	0	11	4	4	N N	30/01/16	05/02/16	1	43	126
Matala	0	0	0	2	0	1	N	55/01/10	03/02/10	4	81	120
Quilengues	0	0	0	10	4	2	N	21/02/16	10/03/16	2	83	92
Quipungo	0	0	0	31	3	3	Υ	02/02/16	05/02/16	4	7	126
HUILA	0	0	0	135	33	22	Y	05/01/16	15/05/16	5	7	26
Cambulo	0	0	0	1	0	0	N			34	58	
Chitato	0	0	0	6 22	1	1	N Y	08/05/16	08/05/16 28/05/16	9	18	33
Cuango Cuilo	13 1	0	3 0	1	13 0	8	N N	02/05/16	28/05/16	6 9	0	13
Lucapa	0	0	0	1	0	0	N			26	18	
Xa Muteba	1	0	0	2	0	0	N			28	0	
LUNDA NORTE	15	4	3	33	14	9	Y	02/05/16	28/05/16	10	0	13
Cacolo	1	0	0	1	0	0	N N			1	1.0	
Muconda Saurimo	0	0	0	1 5	0	0	N			4 1	14 37	
LUNDA SUL	1	0	0	7	0	0	N			2	2	
Cacuso	1	0	0	3	1	0	Υ	21/04/16	21/04/16	9	4	50
Cahombo	0	0	0	1	1	1	N	20/03/16	20/03/16	9	71	82
Calandula	1	0	0	4	0	1	N			5	4	
Cambundi Catembo	0	0	0	1 11	3	0	N Y	21/02/16	19/05/16	5 3	13 11	22
Malange Quela	0	0	0	1	1	0	N N	21/02/16 07/05/16	07/05/16	4	23	22 34
MALANGE	2	0	0	21	6	3	Y	21/02/16	19/05/16	5	4	22
Cameia	0	0	0	1	0	0	N			7	53	
Leua	0	0	0	1	0	0	N			5	34	
Moxico	0	0	0	2	0	0	N			3	22	
MOXICO	0	0	0	4	0	0	N			4	22	
Namibe	0	0	0	10	2	1	N	17/04/16	14/05/16	5	12	27
NAMIBE	0	0	0	10	2	1	N	17/04/16	14/05/16	5	12	27
Ambuila	0	0	0	4	0	0	N			5	7	
Bembe	1	0	0	3	0	0	N			7	0	
Buengas	0	0	0	1	0	0	N			4	27	
Bungo Damba	0	0	0	2	0	0	N N			3	82 52	
Maguela zombo	0	0	0	1	0	1	N N			0	109	
Mucaba	0	0	0	1	0	0	N			4	20	
Negage	0	0	0	12	3	0	Y	03/02/16	15/05/16	4	7	26
Puri	0	0	0	1	1	0	N	10/05/16	10/05/16	3	20	31
Quimbele	0	0	0	3	0	0	N			6	17	
Quitexe	0	0	0	1	0	0	N			10	32	
Sanza pombo	0	0	0	1	0	0	N N			4	27	
Songo Uige	0	0	0	22	5	0 4	N Y	02/02/16	08/05/16	4 5	7 17	33
UIGE	1	0	0	54	9	5	Y	02/02/16	15/05/16	5	0	26
Cuimba	0	0	0	2	1	2	N	24/03/16	24/03/16	11	52	78
Mbanza congo	0	0	0	4	0	0	N	. ,	. ,	9	73	· ·
Noqui	0	0	0	2	0	0	N			16	88	
Nzeto	0	0	0	2	1	0	N	05/02/16	05/02/16	10	100	126
Soyo	0	0	0	3	2	1	Y	10/02/16	15/05/16	2	13	26
ZAIRE	0	0	0	13	4	3	Y	05/02/16	15/05/16	9	13	26
Angola	182	13	16	3137	847	345	Υ	05/12/15	28/05/16	4	О	13
* 1. For cases with date of												

New documented local transmission in W23

^{* 2.} Y = Yes confirmed Local Transmission, N= Not Confirmed Local Transmission

Newly affected districts in Newly districts with confirmed cases in W23

III. Response Interventions

Coordination

- ♦ WHO decided to scale up response activities to yellow fever in Angola. This will include ensuring a permanent presence in high risk provinces. Interagency planning of scaling up is under way. MOH-Angola is creating a roster of public health and epidemiologist experts as well as social mobilizers to contribute to the scale up of response activities at the province level
- ♦ WHO conducted a coordination meeting with UNICEF to discuss the roles and work integration mechanisms after scaling up the response
- ◆ UNICEF is recruiting 3 epidemiologists to support coordination of vaccination activities at province level. It is expected their work to be integrated within the IM response.
- ♦ WHO and partners are updating a Yellow Fever Strategic Framework for yellow fever in high risk countries as Angola and DRC
- IOM and UNHCR were briefed by yellow fever partners in relation with the observation of possible refugee and immigrant movements among the boarders of Lunda Norte province, mainly at Cafunfu (Coango) and Chitato border districts. Both organizations will join the partners meeting weekly
- ◆ A plan for vaccination in border and high risk areas is under development by WHO HQ, AFRO and CO, and will be proposed to MoH-Angola
- ♦ From the start of the response, more than 70 people are present at provincial level and Luanda in continued positions (including 25 WHO surveillance officers) Over 50 individual field visits have been performed (less than 2 weeks each). This includes MoH-central staff as well as MOH identified MPH and Epidemiology trainees supported by WHO, WHO CO staff, WHO expatriates from AFRO and HQ, GOARN, CDC staff, IPD, Cuban Cooperation, MSF, MdM, IFRC and other partners working under IMS

Surveillance, Laboratory and Data management

- ♦ New local transmission was documented in **Soyo**, Zaire, and **Londuimbale**, Huambo
- ♦ Inter-agency surveillance assessment missions were completed in Cunene, Cabinda, Lunda Norte and Malange last week, reports were completed
- ◆ Similar visits this week to Lunda Sul, Namibe, Cuando Cubango, Moxico involved 12 epidemiologists and entomologists
- ♦ Surveillance evaluation tools were implemented in all provinces assessed. Reports from the assessment at the provinces are being compiled and translated for distribution
- ♦ Data cleaning, consistency checks and re-analysis process were completed. Routine data cleaning and consistency checks, continues
- ◆ The data management team compiled line-lists of suspected yellow fever cases from provinces and estimated under-reporting rates
- ♦ A recruitment for support in management of sample transport and custody and provision of feedback was launched in Luanda
- ◆ Case investigations of all PCR+ cases reported in Luanda was started with the objective to understand the profile of cases and factors affecting persistent transmission of YF, and identify potential adverse effects and/or inefficient vaccination

Vaccination

- ◆ Mass vaccination campaigns are underway in the border districts of Chitato and Coango (Lunda Norte). Additional campaigns are being planned across the country
- A vaccination campaign was organized in Soyo, Zaire, and is planned to start on current week
- ♦ A focused mop-up campaign in Luanda is being planned by MoH and WHO, based on the results of Independent Monitoring exercise implemented by Grupo Core and CDC. Main results of the independent monitoring exercise suggest that coverage is more homogenous across the province than anticipated (based on administrative coverage figures). It also suggests that the population in the province is likely to be 1 or 2 million people bigger than what is recorded in census data
- ♦ Post-campaign independent monitoring of coverage was completed in Benguela and Huambo by Grupo Core. Reports are pending

Logistics

- ♦ 1,036,500 doses of vaccine arrived in country and were designated for Coango, Chitato and Soyo districts
- Distribution of vaccines to the provinces was challenged by transportation problems. MoH-Angola is committed to renew the contract with the transportation company
- ◆ The balance of Yellow Fever vaccine at central level store after recent arrivals and distribution to the provinces is **739,370 doses**, out of this stock **243,690** will be sent to Soyo Zaire province immediatly
- ♦ Additional 3 million yellow cards were ordered to a local print in Luanda
- ♦ The WHO logistics team worked with province partners to address storage challenges in Soyo and Chitato
- A preliminary assessment of the quality of cold chain in border provinces identified problems in Cuando Cubango. WHO is addressing in collaboration with Province Direction of Health and MoH
- ♦ The stocks of syringes and safety box in country remains low. Future delivery of vaccine should ensure that these materials are delivered at the same time than the vaccine

Border Health

- ♦ UNCHR and IOM will participate in partners coordination meetings, to provide guidance on displaced and immigrant populations and border issues
- ♦ Scale up surveillance and response activities at border provinces is ongoing. A CDC epidemiologist was identified to lead border health activities
- Multiple reports of availability of yellow fever cards for sale in the streets and around airports are being investigated
- ◆ A circular letter from the Minister of Health regulating border control of vaccination is expected to be signed shortly

Social Mobilization and Risk Communication

- ♦ UNICEF is supporting Social Mobilization in the provinces of Luanda, Huila, Cunene, Cuanza Sul, Lunda Norte, Lunda Sul and Benguela
- ♦ A media expert joint the team to support media communication and social mobilization activities
- ♦ IM social mobilization team is providing technical support to vaccination activities in new vaccination round in Luanda, Cuanza-Sul, Lunda-Norte and Zaire provinces
- Dissemination of the IEC message through national and international media is ongoing (National Radio, National TV, Provincial Radios, Reuters
 agency and the Washington Post Journal)
- The need to strengthen Social Mobilization at the municipal level was identified by several visits to the provinces during vaccination campaigns. This could include additional microplanning with local partners and strengthened supervision and support

Case Management

- ♦ WHO selected two persons to support case management, to be deployed to Luanda shortly
- ♦ WHO developed new case management guidelines. These will be shared with partners for review
- MSF and MdM activities continued support of case management in hospital and health centers in Luanda, Huambo, Huila, Benguela and Cuanza Norte
 continued.
- ♦ Médicos del Mundo (MDM) in Cuanza Norte in coordination with the Province Health Office has completed a training in the 10 districts of the province. The training included 267 health professionals targeting, prevention, identification, differential diagnosis, case management, epidemiological surveillance and vaccination of Yellow Fever.

Vector Control

- WHO vector control team lead started an assessment of the strategy and way forward to scale up vector control activities
- Translation and adaptation of the entomological SOPs for YF entomological investigations are under process
- ♦ The need to produce more and robust entomological data is highly recommended to guide vector control efforts
- ◆ IM vector control expert and the head of NMCP conducted several meetings discussing the current situation and set a comprehensive entomological response and capacity building plan
- Cuban Cooperation continue to support vector control activities in districts in Luanda and across the country. Routine entomological assessment and vector control is ongoing in affected provinces
- Vector control experts joined each of the vaccination teams assessing surveillance systems across the country, to perform case investigations and assessment of local transmission

Special Studies and Assessments

- ♦ CDC with INSP/MOH and IPD follow-up the proposed differential diagnosis protocol of Leptospira and HEV for implementation at the central level.
- ♦ CDC provides support to Grupo Core on independent monitoring assessment
- ♦ A proposal for Differential Diagnosis of cases negative to YF or co-infected was prepared by CDC. Rapid tests for Leptospirosis and Hepatitis E are being sourced for start of activity later this month
- ◆ CDC and MoH implemented a preliminary assessment of cases with positive PCR and history of vaccination. Serum samples of some of these cases were sent to the Institut Pasteur Dakar and CDC Fort Collins for genotyping (i.e. differentiate between vaccine type virus and wild type virus)

V. Key challenges

- New cases are reported weekly in Luanda and Benguela despite high reported levels of vaccination, indicating continued transmission and pockets of unvaccinated population
- Need to accelerate and re-assess the strategy for vector control to focus on gathering places and adult vector
- Under-reporting from all facilities in Luanda, Benguela and Huambo, has been confirmed. Impact in the epicurve interpretation and remedial actions are being discussed based on assessment of under-reporting performed by WHO and CDC
- Issues of transportation of vaccines from central stores to provinces
- ♦ Need for coordination of clinical case management activities
- Need to strengthen all response activities at the province level will require administrative and structural changes in the organization of the Incident Management System

For further information please contact:

WHO Representative, Angola: Dr. Agudelo Hernando (agudeloh@who.int)
Incident Manager, Yellow Fever: Dr. Carlos Navarro-Colorado (navarroc@who.int)
EPI Focal Point: Dr. Jean Marie Kipela (kipelam@who.int) DPC Dr. Javier Aramburu (aramburuj@who.int)
Information Management: Dr. Linda Awad (lindaawada77@hotmail.com),

Data management: Mr.MINKOULOU, Etienne Magloire (minkouloue@who.int), Mr.Victor Luteganya (luteganyav@who.int)