Weekly epidemiological record Relevé épidémiologique hebdomadaire

27, E, EMBE 2024, 99, 1

The Onchocerciasis Elimination Program for the Americas (OEPA)² was created at the end of 1993 following Resolution CD35R14, adopted by the 35th Directing Council of the Pan American Health Organization in 1991, which called for the elimination of onchocercia-

semiannual approach, the Venezuela South Focus Programme reached a coverage of 86% in the first treatment round but did not reach it in the second, with 83% coverage of its semiannual eligible population of 13 630 individuals. In the 67 high-priority communities targeted with a quarterly MDA approach in 2023, coverage was 81%, 90%, 92% and 83% of the eligible population of 2287, respectively, each quarter.

E abli hing a bina iଅnal infଅ ma iଅn em ଷ mଅniୟ i e mec in ୁea men ୁଷ ided ଷ ୁଷ -bଅ de i i ing ଷ mig an ଷ la iଅn

Preliminary results from the ongoing Ov-16 serology assessments in YFA (partially reported in a previous Weekly Epidemiological Record⁵) showed unexpectedly high prevalences, ranging from 1.0 to 500% of Ov-16 antibodies, in children in areas with either a low burden of disease or those reporting 20 effective rounds of treatment, which could be explained by several hypotheses, among which is the possibility that the cross-border movements of this semi-nomadic population could maintain the transmission cycle of onchocerciasis. In 2022, the OEPA steering committee stressed the importance of documenting all treatments given in the Brazil and Venezuela programmes to populations from the neighbouring country and recommended that a system for registering such movements be established and the resultant° evQ

IACO congratulated both countries on the preliminary serological assessments in children < 10 years, which indicated that transmission of onchocerciasis might have been interrupted in 16 subareas (11 in Brazil and 5 in Venezuela) of the YFA, as compared with the WHO serological elimination threshold of < 0.1%. The central theme of IACO 2023 was "Towards interruption of onchocerciasis transmission and stopping of mass treatment with ivermectin in the Americas by 2025". While the programmes reported significant progress, the serology results suggest that the ambitious goal of 2025 should be reviewed.

IACO commended the two countries on development of the new binational information system for monitoring ivermectin treatment provided to cross-border or migrant populations from the neighbouring country and recommended that the system be further strengthened by improving community inventories and coordinates are considered as a coordinates and coordinates and coordinates are considered as a coordinates and coordinates are considered as a coordinates and coordinates are considered as a coordinate are considered a

zziciQy z fq p**y** s° r″ ″bnb

Qé

Can պalafe idemic meningi i in can n ie in he Afican meningi i bel, 2023

Backg 🕄 nd

Bacterial meningitis is a potentially severe infection of the meninges, the thin lining of the brain and spinal cord. The common symptoms are sudden onset of headache, high fever, stiff neck and sensitivity to light. In 2021, WHO launched a global road map to "defeat meningitis by 2030", after its approval by the World Health Assembly at its Seventy-third session in November 2020.1 The road map addresses the 4 main causes of acute bacterial meningitis: *Streptococcus pneumoniae*

and Streptococcus agalactiae (commonly referred to as "group B streptococcus") as well as the sequelae and after-effects that can occur from meningitis of any cause. The 3 visionary goals to be achieved by 2030 are:
(1) elimination of bacterial meningitis epidemics;
(2) reduction by 50% in the number of cases and by 70% in the number of deaths from vaccine-preventable meningitis; and (3) a reduction in disability and an improvement in the quality of life after meningitis of any cause.

Of the bacterial meningitis pathogens, meningococcus) is of particular concern because of its potential to cause large epidemics. Of the 12 subtypes or serogroups identified, 6 (A, B, C, W, X and Y) are recognized as the main causes of disease and epidemics. Although meningococcal meningitis occurs worldwide, large, recurring epidemics mainly affect an extensive region of sub-Saharan Africa known as the "meningitis belt", which comprises 26 countries, from Senegal to Ethiopia. Pneumococcus (Spn), which has over 90 capsular serotypes, has also been associated with several meningitis outbreaks and causes an increasing proportion of meningitis cases in the meningitis belt. Most meningitis cases and outbreaks in this region occur during the epidemic season, which can extend from November to June, depending on the location and year.

Inୁ ଷପ c Man and eଷf mening ଅପୋccal ଆମା ga e accine ଷ୍ଟ୍ରି e en e idemic

Before the roll-out of a meningococcal A conjugate vaccine (MenACV),² serogroup A (A) was responsible for most meningitis epidemics in the meningitis belt.³ Mass preventive vaccination campaigns with MenACV targeting the population aged 1–29 years were conducted between December 2010 and December 2019 by 24 of the 26 countries in the meningitis belt, either nationwide (12 countries) or in high-risk areas (12 other countries) (Map 1). These campaigns had an

L e can e la me ningi ee ide mi e dan le a de la cein e aficaine de la me ningi e, 2023

C⊠ne e

La méningite bactérienne est une infection potentiellement grave des méninges, la fine paroi qui entoure le cerveau et la moelle épinière. Les symptômes courants sont l'apparition soudaine de maux de tête, une forte f'èvre, une raideur de la nuque et une sensibilité à la lumière. En 2021, l'OMS a lancé la feuille de route mondiale pour vaincre la méningite à l'horizon 2030, qui avait été approuvée par la Soixante-Treizième Assemblée mondiale de la Santé en novembre 2020. Cette feuille de route est axée sur les 4 principaux agents responsables de la méningite bactérienne aiguë, à savoir Streptococcus pneumo-

et Streptococcus agalactiae (couramment appelé «strep-20201 r fi f m gs m é ite 20 ie

_ _

 $^{^{1}\ \} See\ https://www.who.int/initiatives/defeating-meningitis-by-2030.$

² The MenACV vaccine was developed for the meningitis belt by the Meningitis Vaccine Project, a partnership between WHO and PATH, funded by the Bill & Melinda Gates Foundation.

³ Lingani C et al. Meningococcal meningitis surveillance in the African meningitis belt, 2004–2013. Clin Infect Dis. 2015;61: S410–5.

immediate and dramatic effect, with virtual elimination of A meningitis, due to interruption of transmission and herd protection resulting from the effect of the vaccine on carriage. No case of A has been confirmed in these countries since 2017. After evaluating their risk, the 2 countries that were still to conduct mass campaigns, Rwanda and the United Republic of Tanzania, decided to give priority to strengthening their meningitis surveillance systems before considering introduction of meningococcal vaccines.

To sustain the impact of the campaign, the corresponding component of the MenACV strategy⁴ is introduction of the vaccine into routine childhood immunization programmes no longer than 5 years after completion of mass campaigns, to protect new birth cohorts and maintain population protection. The introduction should be associated with a catch-up campaign to protect those children who were not born (or were too young) at the time of the mass campaign.

As of December 2022, 14 countries had introduced the vaccine into their national immunization schedules and conducted related catch-up campaigns.

In May 2023, Guinea Bissau introduced MenACV in Mac c programl23 na 3 5im n c

In total, approximately 360 million people aged 1-29 years were vaccinated in mass or catch-up campaigns. To sustain this major achievement and the resulting protective effect of MenACV, countries that have not yet introduced the vaccine into routine immunization, with associated catch-up campaigns, are strongly encouraged to do so, as A could catastrophically resurge if herd protection wanes.

of countries participating in the ES surveillance network has increased over time, from 8 in 2008 to 25 countries since 2022

In 2023, epidemiological data were reported by 24 of the 25 countries in the surveillance network (all countries except for Guinea-Bissau), an increase from 23 in 2022. The number of reporting countries previously reached the highest level in 2019, when 24 ES countries reported epidemiological data. During the 2023 meningitis epidemic season, the 24 countries reported a total of 18933 suspected cases, including 922 deaths (), resulting in a case fatality rate (CFR) of 49%. The number of suspected cases increased by 47.6% over that in the previous year and 56.6% and 88.8% over those in 2021 and 2020, respectively, indicating an increasing trend in the number of cases reported in the ES system.⁸⁻¹⁰

The countries that reported the largest numbers of suspected cases during the 2023 season were Ethiopia (4741), the Democratic Republic of the Congo (DRC8

C8 n R a t 4



characterization directly on CSF specimens, and the need to increase awareness among countries about the

South Sudan, districts crossed the epidemic threshold for <2 weeks, and, among the very few laboratory-confirmed cases, predominance was not determined (Table 2). Ethiopia reported the largest number of suspected cases and districts that crossed the epidemic threshold, both during the season (4741 cases and 22 districts) and the whole year (9137 cases and

Ÿ_

Gagarawa, Gumel, Maigatari and Sule Tankarkar LGAs in Jigawa State. A campaign targeting the population

 $^{^{13}}$ See https://apps.who.int/gb/ebwha/pdf_files/EB152/B152_10-en.pdf $\,$

See https://www.who.int/publications/m/item/defeating-meningitis-by-2030-a-glo-bal-road-map-technical-taskforce-(ttf)--terms-of-reference

C⊠ncl i⊠n

The increases in the numbers of cases and of districts that crossed the epidemic threshold in 2023 particularly in neighbouring Niger-Nigeria regions demonstrate the unpredictable, continued risk of large-scale meningitis outbreaks and call for vigilance and preparedness for 2024 and beyond. The successful MenACV programme has so far resulted in the disappearance of A. Continued introduction and reinforcement of MenACV in national childhood immunization programmes remain crucial to avoid catastrophic resurgence of A epidemics. Furthermore, timely reactive meningococcal vaccination covering other serogroups remains essential.

WHO prequalif cation of a long-awaited, affordable, new multivalent meningococcal conjugate vaccine in 2023 and WHO recommendations on its use in countries in the African meningitis belt provide a concrete basis for y ifi m m MSW ommenM20a

WHO eb i e an infec ia di ea e Si e in e ne de l'OMS . le maladie infec ie e

Adolescent health https://www.who.int/health-topics/adolescent-health#tab=tab_1 Santé des adolescents Avian influenza https://www.who.int/health-topics/influenza-avian-and-other-zoo-Grippe aviaire notic#tab=tab 1 Buruli ulcer https://www.who.int/health-topics/buruli-ulcer#tab=tab_1 Ulcère de Buruli Child health Santé des enfants https://www.who.int/health-topics/child-health#tab=tab_1 Cholera https://www.who.int/health-topics/cholera#tab=tab_1 Choléra COVID-19 https://www.who.int/health-topics/coronavirus#tab=tab_1 Maladie à coronavirus 2019 (COVID-19) Dengue https://www.who.int/health-topics/dengue-and-severe-dengue#-Dengue tab=tab_1 Ebola virus disease https://www.who.int/health-topics/ebola#tab=tab_1 Maladie à virus Ebola Emergencies https://www.who.int/emergencies/situations Situations d'urgence sanitaire Emergencies dashboard https://extranet.who.int/publicemergency Tableau de bord des urgences sanitaires Foodborne diseases https://www.who.int/health-topics/foodborne-diseases#tab=-Maladies d'origine alimentaire tab_1 Global Health Observatory (GHO) data https://www.who.int/data/gho Données de l'Observatoire de la santé mondiale Système mondial de surveillance et Global Influenza Surveillance and Response https://www.who.int/initiatives/global-influenza-surveil-System (GISRS) lance-and-response-system d'intervention Global Outbreak Alert and Response Network https://extranet.who.int/goarn/ Réseau mondial d'alerte et d'action en cas (GOARN) d'épidémie (GOARN) Health topics https://www.who.int/health-topics/ La santé de A à Z Human African trypanosomiasis https://www.who.int/health-topics/human-african-trypanosomia-Trypanosomiase humaine africaine sis#tab=tab 1 Immunization, Vaccines and Biologicals https://www.who.int/health-topics/vaccines-and-immunization#-Vaccination, Vaccins et Biologiques tab=tab 1 Influenza https://www.who.int/health-topics/influenza-seasonal#tab=tab_1 Grippe International Health Regulations https://www.who.int/health-topics/international-health-regula-Règlement sanitaire international tions#tab=tab_1 International travel and health https://www.who.int/health-topics/travel-and-health#tab=tab_1 Voyages internationaux et santé Leishmaniasis https://www.who.int/health-topics/leishmaniasis#tab=tab_1 Leishmaniose Leprosy https://www.who.int/health-topics/leprosy#tab=tab_1 Lèpre Lymphatic filariasis https://www.who.int/health-topics/lymphatic-filariasis#tab=tab_1 Filiariose lymphatique Malaria https://www.who.int/health-topics/malaria#tab=tab_1 Paludisme Middle East respiratory syndrome coronavirus https://www.who.int/health-topics/middle-east-respiratory-syn-Coronavirus du syndrome respiratoire du (MERS-CoV) drome-coronavirus-mers#tab=tab_1 Moyen-Orient (MERS-CoV) Neglected tropical diseases https://www.who.int/health-topics/neglected-tropical-diseases#-Maladies tropicales négligées tab=tab 1 Onchocerciasis https://www.who.int/health-topics/onchocerciasis#tab=tab_1 Onchocercose OpenWHO https://openwho.org/ OpenWHO Outbreak news https://www.who.int/emergencies/disease-outbreak-news Flambées d'épidémies Poliomyelitis https://www.who.int/health-topics/poliomyelitis#tab=tab_1 Poliomvélite Rabies https://www.who.int/health-topics/rabies#tab=tab_1 Rage Schistosomiasis https://www.who.int/health-topics/schistosomiasis#tab=tab_1 Schistosomiase Smallpox https://www.who.int/health-topics/smallpox#tab=tab_1 Variole https://www.who.int/health-topics/soil-transmitted-helmin-Géohelminthiases Soil-transmitted helminthiases thiases#tab=tab_1 Trachoma https://www.who.int/health-topics/trachoma#tab=tab_1 Trachome Tropical disease research https://tdr.who.int/ Recherche sur les maladies tropicales **Tuberculosis** https://www.who.int/health-topics/tuberculosis#tab=tab_1 Tuberculose Weekly Epidemiological Record http://www.who.int/wer Relevé épidémiologique hebdomadaire WHO Lyon Office for National Epidemic https://www.who.int/about/structure/lyon-office Bureau OMS de Lyon pour la préparation et la Preparedness and Response réponse des pays aux épidémies Yellow fever https://www.who.int/health-topics/yellow-fever#tab=tab_1 Fièvre iaune Zika virus disease https://www.who.int/health-topics/zika-virus-disease#tab=tab_1 Maladie à virus Zika