To the Editor: Infection with group A rotavirus is among the leading causes of gastroenteritis in children, especially in sub-Saharan Africa (1). Data with regard to the incidence of rotavirus-A disease in the Central African Republic are limited (2). To estimate the prevalence of rotavirus-A disease among young children before introduction of rotavirus-A vaccine in Bangui, the capital of the Central African Republic, we performed a prospective study during February–September 2008. The target sample size, based on an expected 20% prevalence of rotavirus diarrhea and a 5% significance level, was 250 cases. All patients were children 0–5 years of age, who were hospitalized for acute diarrhea at the Complexe Pédiatrique, Bangui, the main hospital for children in the Central African Republic, and all had an illness that met the World Health Organization definition of a suspected case of rotavirus-A gastroenteritis (http://www.who.int/nuvi/surveillance/RV_CaseDefs.pdf). After informed consent and epidemiologic and clinical data had been obtained, a fecal specimen was collected from each child. Samples were transported to the Institut Pasteur de Bangui, where they were tested for rotavirus-A infection with the VIKIA Rota-Adeno test, (VIKIA Rota-Adeno kit; bioMérieux SA, Lyon, France). Results were immediately reported to the referring physician.

Rotavirus-A G-type (virus protein [VP] 7) and P-type (VP4) genotyping were performed by using previously described 2-step amplification methods (3). Extracted double-stranded RNA was denatured at 97°C for 5 min, and VP7 and VP4 were amplified by reverse transcription PCR (RT-PCR) by using consensus primers 9Con1-L/VP7R (3) and Con3/Con2 (3), respectively, and the One-Step RT-PCR kit (QIAGEN, Inc., Valencia, CA, USA) according to the manufacturer’s instructions. RT-PCR was conducted by using a GeneAMP PCR System 9700 thermocycler (Applied Biosystems, Foster City, CA, USA) with the following thermocycling profile: 30 min at 42°C; 15 min at 95°C; 35 cycles of 30 s at 94°C, 30 s at 42°C, and 45 s at 72°C; followed by a final 7-min extension at 72°C. G-typing used primer 9Con1-L in combination with primers 9T1–1, 9T1-Dg, 9T-2, 9T-3P, 9T-4, and 9T-9B; P-typing used primer Con3 in combination with primers 1T1-1, 1T1-VN, 2T-1, 3T-1, 4T-1, 5T-1, and 1T1-Wa. Genotyping reactions were analyzed by use of electrophoresis on a 3% agarose gel.

Data were analyzed by using Stata 11 software (StataCorp, College Station, TX, USA). Prevalence was expressed in percentages. The χ² test was used to analyze categorical variables and testing by the Yates correction, as appropriate. A 95% confidence interval was calculated, and p<0.05 was considered significant. Ethical and administrative permissions were obtained from the National Committee of Ethics of the Central African Republic; the Complexe Pédiatrique, Bangui; and the Central African Republic Government Ministries.

A total of 250 infants and young children with diarrhea (159 male and 91 female, mean age 8.2 months) were enrolled in this study. Results obtained by the VIKIA Rota-Adeno test revealed that 100 (40%) of these children were infected with rotavirus-A, mostly male children (61/100, p<0.5). The proportions of rotavirus-A infection in children <9 months of age and those ≥10 months of age were 37.3% (62/166) and 45.2% (38/84), respectively (p = 0.2). Rotavirus-A infections were more prevalent during February–March (67/108, 62.0%) than during April–September (33/142, 23.2%) (p<10⁻⁶). Because data were collected for only 8 months, annual rotavirus-A prevalence might have been underestimated or overestimated, a possible limitation of the study.

Among the 100 ROTAV-A–positive patients, 32 samples were randomly selected for genotyping. Among these samples, type G1 predominated (62.8%, 22/32); among P genotypes, type P[8] predominated (50%, 16/32), followed by P[6] (25%, 8/32). The predominant genotypic combination was G1P[8] (43.7%, 14/32) and G1P[6] (25%, 8/32) (Table).

Despite the limitations of a short study period and low number of genotyped strains, this study reports useful information. It reveals that 40% of children hospitalized with acute diarrhea at Complexe Pédiatrique, Bangui, were infected with rotavirus-A during the study period, which included the end of the rotavirus-A gastroenteritis season. Most patients were <9 months of age. These results are similar to those found in the 1980s study at Complexe Pédiatrique, Bangui (2), which were that the major serotype/genotype was G1 (71.3%), followed by G2 (15.4%) and G3 (13.3%) (4). After 25 years, the predominant circulating genotypes are G1P[8]

Table. Genotyping results for 32 human rotavirus group A–positive samples, Bangui, Central African Republic, 2008

| G genotype | P[4] | P[6] | P[8] |
|------------|------|------|------|
| G1         | 0    | 0    | 8    |
| G2         | 0    | 0    | 0    |
| G9         | 0    | 0    | 0    |
| Not typeable | 3    | 0    | 2    |

1 This work was presented as a poster at the 7th African Rotavirus Symposium, Preconference Symposium, at the International African Vaccinology Conference, Lagoon Beach Hotel, Cape Town, South Africa; November 8–11, 2012.
and G1P[6] along with G2P[4] and G9P[8]. Our study results are similar to those of recent studies conducted in other African countries (5–8) and confirm results of studies that found that the same genotypes circulated in western Cameroon in 2003, albeit at different percentages (4,9).

Our study provides relevant data about the genotypes of rotavirus-A from children in the Central African Republic, 25 years after the most recent study (2). These data represent baseline information that will help with monitoring for potential changes in genotype prevalence after the introduction of rotavirus-A vaccine in the Central African Republic.

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Genome Analysis of Mayaro Virus Imported to Germany from French Guiana

To the Editor: Mayaro virus (MayV), a mosquito-borne New World alphavirus of the family Togaviridae, causes a febrile arthralgia syndrome resembling dengue and chikungunya fever. The virus is maintained in a natural cycle involving nonhuman primates and Haemagogus spp. mosquitoes in tropical rainforest areas of South America (1). After an incubation time of 7–12 days following an infectious mosquito bite, rash, fever, headache, and arthralgia develop in patients, followed by restoration to their original conditions after several weeks (1).

Outbreaks of Mayaro fever have been reported from the Amazon region (1,2). There are increasing reports of travel-related infections imported from South America to Europe and the United States (3–7). We describe an acute MayV infection in a German traveler who returned from French Guiana. Full-length MayV genome amplification was performed on virus obtained from a serum sample of the patient.

In August 2013, a 44-year-old woman (bookkeeper) came to an outpatient clinic with fever (temperature ≤38.7°C), chills, a mild headache, severe fatigue, highly painful swelling of small finger joints, and pain in both feet. Symptoms appeared 2 days before when she experienced aches in her wrists and left forefoot. Four days before, the patient had returned from a 2.5-week visit to French Guiana, where she traveled with her partner and caught butterflies. She had conducted these activities during her holidays for the past 5 years, mostly in spring or autumn. In July 2013 at the end of the rainy season, she had many mosquito bites, especially on her hands, despite use of repellents and bed nets.