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O.V. Maletskaya<sup>1</sup>, T.V. Taran<sup>1</sup>, D.A. Prislegina<sup>1</sup>, V.M. Dubynsky<sup>1</sup>, A.S. Volynkina<sup>1</sup>, O.V. Semenko<sup>1</sup>, N.F. Vasilenko<sup>2</sup>, M.A. Tarasov<sup>2</sup>, N.V. Tsapko<sup>1</sup>**ПРИРОДНО-ОЧАГОВЫЕ ВИРУСНЫЕ ЛИХОРАДКИ НА ЮГЕ ЕВРОПЕЙСКОЙ ЧАСТИ РОССИИ. КРЫМСКАЯ ГЕМОРАГИЧЕСКАЯ ЛИХОРАДКА**<sup>1</sup>ФБУЗ «Ставропольский научно-исследовательский промышленный институт», Ставрополь, Российская Федерация;<sup>2</sup>ФБУЗ «Центр гигиены и эпидемиологии в Саратовской области», Саратов, Российская Федерация

**Цель исследования** – определение современных эпидемиологических особенностей Крымской геморрагической лихорадки на юге Российской Федерации. **Материалы и методы.** Карты эндебисследования очага инфекционного заболевания, ежегодные итоговые донесения (2010–2019 гг.), сведения об эпизоотологическом мониторинге, предоставленные управлению Роспотребнадзора и ФБУЗ «Центр гигиены и эпидемиологии» в субъектах Южного и Северо-Кавказского федеральных округов. Использовали описательные, генетические, аналитические методы и ретроспективный эпидемиологический анализ. **Результаты и обсуждение.** Природный очаг Крымской геморрагической лихорадки на территории европейского юга России имеет площадь 815 тыс. км<sup>2</sup> и характеризуется стойкостью, расширением территории, циркуляцией европейских генотипов вируса Крымской-Конго геморрагической лихорадки. Генетические варианты вируса Крымской-Конго геморрагической лихорадки образуют локальные, частично перекрывающиеся популяции. В 2010–2019 гг. зарегистрировано 997 случаев Крымской геморрагической лихорадки. Клинически преобладали среднетяжелые формы болезни (74,2 %). Геморрагические проявления были у 29,3 % больных. Летальный исход заболевания зарегистрирован у 31 больного (3 %). Отмечено 2 эпизода нозокомального заражения, инфицировано 9 медицинских специалистов. Увеличение эпизоотически активной территории природного очага Крымской геморрагической лихорадки связано с расширением ареала клещей *Hyalomma marginatum* в северном направлении в связи с аридизацией территории степей, отчасти за счет глобального изменения климата. Отмечена стабильность популяции вируса Крымской-Конго геморрагической лихорадки. Эпидемическое ядро природного очага сохраняется на смежной территории Ростовской области, Ставропольского края и Республики Крым. Более высокая эффективность мер профилактики Крымской геморрагической лихорадки на территории ядра обусловлена целенаправленностью и интенсивностью мероприятий, что способствовало раннему обращению больных за медицинской помощью, ранней госпитализации и позволило на раннем клиническом проявлении и исход болезни, а также позволило минимизировать число внутрибольничных заражений вирусом Крымской-Конго геморрагической лихорадки, в том числе медицинского персонала.

**Ключевые слова:** Крымская геморрагическая лихорадка, природный очаг, эпидемическая ситуация, эпидемиологический и эпизоотологический надзор, вирус Крымской-Конго геморрагической лихорадки.

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O.V. Maletskaya<sup>1</sup>, T.V. Taran<sup>1</sup>, D.A. Prislegina<sup>1</sup>, V.M. Dubynsky<sup>1</sup>, A.S. Volynkina<sup>1</sup>, O.V. Semenko<sup>1</sup>, N.F. Vasilenko<sup>2</sup>, M.A. Tarasov<sup>2</sup>, N.V. Tsapko<sup>1</sup>**Natural-Focal Viral Fevers in the South of the European Part of Russia. Crimean-Congo Hemorrhagic Fever**<sup>1</sup>Stavropol Research Anti-Plague Institute, Stavropol, Russian Federation;<sup>2</sup>Center of Hygiene and Epidemiology of the Saratov Region, Saratov, Russian Federation

**Abstract.** **Objective** of the study was to determine the modern epidemiological peculiarities of Crimean-Congo hemorrhagic fever in the south of the Russian Federation. **Materials and methods.** Data of statistical documentation (epidemiological survey of the infectious disease focus, annual summary reports dated 2010–2019) and epizootologic monitoring data submitted by the Rospotrebnadzor Administrations and the Centers of Hygiene and Epidemiology in the constituent entities of the Southern and the North Caucasian Federal Districts were used. Descriptive, genetic, analytical methods and retrospective epidemiological analysis were applied. **Results and discussion.** The CCHF natural focus in the European south of Russia has an area of 815 thousand square kilometers and it is characterized by persistence, expansion of the territory, and circulation of CCHF virus European genotypes. CCHF virus genetic variants forms the local overlapping populations. Over the period of 2010–2019 997 CCHF cases were registered. Moderate forms of the disease clinically prevailed (74.2 per cent). Hemorrhagic symptoms were noted in 29.3 % of patients. The lethal outcome of the disease was registered in 31 CCHF patients (3 %). Two cases of nosocomial infection were identified, nine health workers were infected by CCHF pathogen. The expansion of epizootically active territory of the CCHF natural focus is associated with the expansion of the *Hyalomma marginatum* ticks area northward due to the aridization of the steppes, in part because of global climate change. The stability of the CCHF virus population was noted. The epidemic core of the CCHF natural focus remains on the adjacent territory of the Rostov Region, Stavropol Territory and the Republic of

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