Abstract

Background: The public health burden of the novel coronavirus disease 2019 (COVID-19) is expected to increase and urgent strict measures by decision-makers is critical for the containment of the novel coronavirus (SARS-CoV-2) outbreak worldwide.

Aims: This study aimed to give a real-time analysis of COVID-19 presence in northern Cyprus.

Methods: All official SARS-CoV-2 positive cases were tracked and reported in terms of the origin, nationality, and transmission routes. Preventive measures taken after the first reported case were analyzed for their effectiveness as control strategies.

Results: The index case of SARS-CoV-2 in northern Cyprus was identified as a female German tourist. First local case had travel history from the United Kingdom after which local transmission occurred. Rapid and strict containment measures have currently delayed a peak in observed cases.
Conclusions: Rapid implementation of social-distancing measures, good hygiene measures and travel/gathering bans in northern Cyprus has been effective in controlling the outbreak.

Keywords: SARS-CoV-2, COVID-19, Cyprus, surveillance, control measures

Citation: Sultanoglu N; Baddal B; Suer K; Sanlidag T. Current situation of COVID-19 in northern Cyprus. East Mediterr Health J. 2020;26(6):641–645. https://doi.org/10.26719/emhj.20.070

Received: 04/04/20; accepted: 20/05/20

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Introduction

As of 11 March 2020, the World Health Organization (WHO) announced that the global spread of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) had become unstoppable and reached the required epidemiological characteristics to be declared as a pandemic (1). As of 4 May 2020, it has been confirmed that 3 435 894 people have been infected with SARS-CoV-2, out of which 239 604 deaths have occurred. Without a doubt, one of the most affected countries has been China where the pandemic emerged in Wuhan, one of the largest cities in Hubei province, and from there spread throughout the country, with 84 400 confirmed cases of SARS-CoV-2 and 4643 deaths. However, it appears that China has recently started to take control of the SARS-CoV-2 outbreak, with a declining trend of SARS-Co-V-2 cases, but the number of cases of SARS-CoV-2 continues to rise in other countries. According to the WHO Coronavirus Disease 2019 (COVID-19) Situation Report on 4 May 2020, 206 299 confirmed cases and 7971 deaths had occurred in the Eastern Mediterranean Region (2). Cyprus is the third largest island in the Mediterranean with a population of approximately 375 000 in the north, the majority of whom are Turkish Cypriots (3,4).

Methods
All official SARS-CoV-2 positive cases were tracked and reported in terms of the origin, nationality, and transmission routes. Preventive measures taken after the first reported case were analyzed for their effectiveness as control strategies.

**Results**

The first case of SARS-CoV-2 was identified as a female German tourist on 9 March 2020, who had arrived in northern Cyprus on 8 March 2020. As a result, people who were found to have had close contact with, or tourists who had travelled on the same plane as the first patient, were exposed to SARS-CoV-2 and were quarantined in three different hotels. Shortly after the identification of the first positive case of SARS-CoV-2, precautions were enacted in northern Cyprus, which continue to be amended for the benefit of the local population (5-7). Below are the important precautions taken by the Council of Ministers with regard to the current SARS-CoV-2 outbreak in northern Cyprus to prevent further transmission. The Decisions of the Council of Ministers announced that:

All civil workers in the public sector except for police, fire brigade, civil aviation, finance, and health workers are considered on administrative leave.

In the private sector, all shops including casinos, nightclubs, betting offices, entertainment centres, etc., except for businesses that provide services within the framework of meeting basic needs such as pharmacies, gas stations, bakeries, and markets, are closed.

Only northern Cyprus citizens and persons who have legal permission to reside in the country can enter northern Cyprus through sea, air and land border gates; entries to northern Cyprus by all other country citizens are banned.

Regardless of which country they come from, northern Cyprus citizens and legal residents who enter the country through sea, air and land gates will be monitored and quarantined at home for 14 days. For those who do not comply with this requirement, legal action will be initiated under the Communicable Diseases Law No. 45/2018.

Gathering in associations, unions, locales and performing collective worship are banned.
To encourage citizens to remain in their homes, a full curfew from 21.00 to 6.00 hours is in force.

Northern Cyprus citizens studying abroad were repatriated using charter flights, and students were quarantined for 14 days in hotels. After the 14-day quarantine period, all quarantined individuals were screened using a rapid antibody detection test. Individuals with a negative rapid test result were required to self-isolate in their homes for a further 7 days. Those with a positive rapid test result went through further confirmatory screening by polymerase chain reaction (PCR) test. These individuals were sent home if they had a negative PCR result and asked to self-isolate in their homes for a further 7 days, or were quarantined further in the case of a positive PCR result.

After the identification of the first SARS-CoV-2 cases in Karpasia, 3 villages in Karpasia are quarantined (full curfew) and only controlled entry and exit are allowed in these villages (correct as of 27 March 2020)

Mandatory use of face masks in public areas has been implemented by the government since 24 April 2020 (8-13).

In addition, Burhan Nalbantoglu State Hospital located in Nicosia has been fully transformed into a pandemic hospital, except for dialysis and oncology departments. Health workers will work in shifts for two weeks and will be accommodated in hotels and dormitories so as not to expose their families to the risk of infection (14).

Moreover, the 1102 Call Centre, as well as three mobile telephone numbers, were announced by the Ministry of Health as SARS-CoV-2 reporting lines. The 1102 number can be reached immediately from both landline phones and GSM operators, with more call operators commissioned to work in the call centre, where 5 calls can be taken at the same time and 10 people can be put on hold. The system has been designed to respond to callers in both Turkish and English. All citizens will be able to reach the call centre 24 hours a day, 7 days a week (15).

Although all precautions were taken rapidly, the number of SARS-CoV-2 cases identified in
northern Cyprus has increased after the identification of the first case and the situation as of 4 May 2020 is summarized in Table 1. The number of cases per day after the first case (index case) was detected between 9 March 2020 and 4 May 2020 are shown in Figure 1. An increasing trend was observed after the first case was diagnosed. However, since the precautions were taken on time, the identified cases were from the same group of German tourists, since it is likely that transmission occurred in between them before the precautions were taken.

**Conclusion**

It is believed that as a result of the precautions that were implemented rapidly, the transmission from the German tourist group to the northern Cyprus population was prevented. No new COVID-19 cases have been detected in the country since 17 April 2020. The first SARS-CoV-2 cases involving northern Cyprus citizens had either travelled from the United Kingdom or had close contact with people who had arrived from the United Kingdom, while other cases were linked to a bus driver who had transported the German tourist group. This suggests that SARS-CoV-2 entered northern Cyprus through imported cases from Germany and the United Kingdom (9,16–20). The clinical presentations at illness onset of the COVID-19 patients diagnosed in northern Cyprus were mild to severe fever, fatigue and headache (19).

As of 4 May 2020, only four COVID-19 related deaths have occurred in northern Cyprus. First patient was a 73-year-old German citizen who had chronic obstructive pulmonary disease and hypertension and was hospitalized on 20 March 2020, and subsequently transferred to an intensive care unit on 25 March 2020. On 28 March, it was announced that this patient had died due to COVID-19-related respiratory failure and multiple organ failure. The second patient was a German tourist, an 83-year-old female patient who also had diabetes and hypertension, and was hospitalized on 20 March 2020. She was taken into the intensive care unit on 24 March, 2020 and the death occurred on 1 April 2020. Apart from these 2 deaths, two Turkish Cypriot citizens also died due to COVID-19 - a 74-year-old male who had hypertension, diabetes and ischemic heart disease co-morbidities, and a 54-year-old male who had an underlying diabetic condition (5–7,21–24). Recently, 29 German citizens aged 65 and over from the original tourist group were discharged and sent back safely to their country. As of 4 May 2020, 103 patients have completed their treatment and recovered, with only one patient currently under treatment for COVID-19. There are no patients in the intensive care unit.

We firmly believe that northern Cyprus represents a ‘good model’ for other countries in the world with regard to dealing with the current COVID-19 pandemic. These stated precautions, as well
as good hygiene practice, could also be used in other countries to control the further transmission of SARS-CoV-2. In addition to the precautions taken, official TV channels, universities and associations are continually sharing informative videos and information to increase awareness of the current outbreak and the role of each individual in northern Cyprus in preventing further transmission.

Funding: None.

Competing interests: None declared.

Situation actuelle de la COVID-19 dans la partie nord de Chypre
Résumé

Contexte : La charge de morbidité de la maladie à nouveau coronavirus 2019 (COVID-19) devrait augmenter. De ce fait, des mesures strictes et urgentes prises par les décideurs sont essentielles pour endiguer la flambée épidémique de nouveau coronavirus (SARS-CoV-2) dans le monde.

Objectifs : La présente étude visait à fournir une analyse en temps réel de la présence de la COVID-19 dans le nord de Chypre.

Méthodes : Tous les cas positifs officiels au SARS-CoV-2 ont été suivis et signalés en termes d’origine, de nationalité et de voies de transmission. Les mesures préventives prises après le premier cas notifié ont été analysées pour établir leur efficacité en tant que stratégies de lutte.

Résultats : Le cas indicateur de SARS-CoV-2 dans la partie nord de Chypre a été identifié comme étant une tourist e allemande. Le premier cas local avait des antécédents de voyage en provenance du Royaume-Uni, ce qui a ensuite entraîné une transmission locale. Des mesures de confinement rapides et strictes ont actuellement retardé un pic dans le nombre des cas observés.

Conclusions : La mise en œuvre rapide de mesures de distanciation sociale, de bonnes
mesures d’hygiène et l’interdiction de voyages/rassemblements dans la partie nord de Chypre ont été efficaces pour endiguer la flambée.

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**Résumé**


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