


Effects of the COVID-19 pandemic on an urban cervical cancer screening program in West Cameroon

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INTRODUCTION

Cervical cancer is the fourth most common cancer among women worldwide, and in 2020 almost 85% of new cases occurred in low and middle income countries. In Cameroon, 1787 deaths were recorded in 2020, making cervical cancer the second most common cause of cancer deaths among women. Recently, in 2020, the World Health Organization (WHO) launched the 90-70-90 strategy to eliminate cervical cancer (box 1).

In response, the Dschang District Hospital, the Cameroon Ministry of Public Health, and the Geneva University Hospitals launched a community based cervical cancer screening program ('3T-approach': test, triage, and treat) at the Dschang District Hospital in West Cameroon. The program has been presented in this journal previously.

EFFECT OF THE COVID-19 PANDEMIC

Although the WHO considered cervical cancer prevention activities a priority during the COVID-19 pandemic, the Dschang cervical cancer primary screening program and follow-up procedures were substantially affected, as were many preventive health services worldwide. From mid-March until the end of April 2020, the screening unit was closed as it was considered inappropriate to expose women and healthcare providers to the risk of COVID-19. In May 2020, follow-up visits were progressively restarted after implementation of the necessary hygiene measures to control the spread of the virus and ensure the safety of the facilities. Consequently, the number

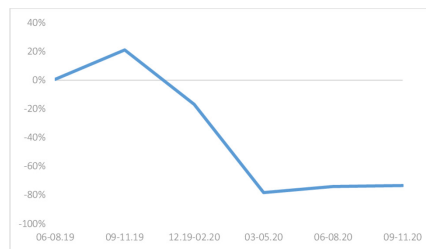


Figure 1 Percentage change in visit 1 from baseline (average of 109 visits/month in 2019) due to the COVID-19 pandemic.

of women screened in 2020 dropped by almost 80% compared with the same period in 2019 (Figure 1). To reduce the risk of exposure between patients and staff, (i) the number of patients attending the clinic was reduced, (ii) physical distancing between patients was implemented, (iii) mask wearing (Figure 2) and (iv) regular hand washing with soap or disinfection with gel was required, as well as (v) careful hygiene regarding equipment and surfaces.

However, as the local health authorities have made substantial efforts in the past few years to launch the cervical cancer screening program, it was feared that an extended closure of the program might endanger its perennity. Therefore, in July 2020, the cervical cancer screening activities were progressively relaunched. Following the preventative hygienic measures during the COVID-19 pandemic, a major advantage of the program is that human papillomavirus (HPV) based screening can be performed by women themselves (HPV self-sampling). As no pelvic examination is needed, the risk of

exposure between patients and providers remains low.

EMERGING BARRIERS TO CERVICAL CANCER SCREENING

However, despite major efforts to ensure patient safety, new barriers to cervical cancer screening emerged during the



Figure 2 Teaching about women's health and cervical cancer by midwives to patients in the parlor. This space is located outside, allowing social distancing between women and everyone interested in assisting and learning about the benefits of the screening program and women's health, and who can then spread the information to others.

Box 1 Global strategy to eliminate cervical cancer 2020–2030

- 90% vaccination coverage of girls
- 70% screening coverage
- 90% access to treatment for precancerous and cancerous lesions

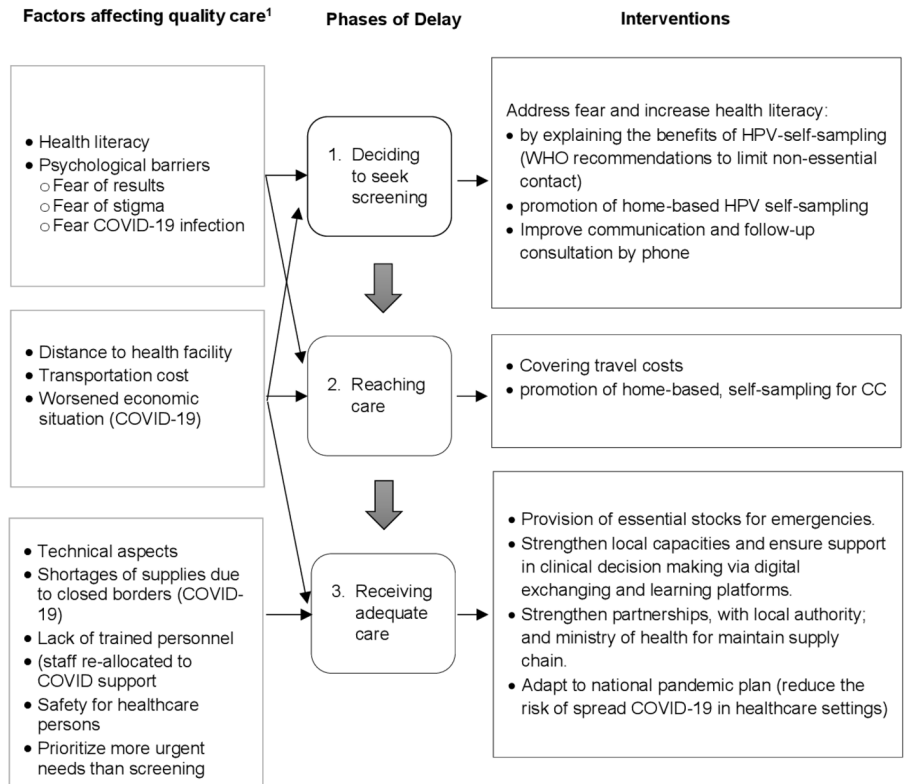


Figure 3 Responses to the three delay model applied to human papillomavirus (HPV) screening (Thaddeus S, Maine D. *Soc Sci Med*. Vol 38. No. 8, pp. 1091-1110, 1994). The decision to seek care, such as screening, is not subject to the same barriers to access to care as it is for follow-up. Follow-up is not impacted by the first delay and is therefore not taken into account in this analysis.

COVID-19 pandemic. The conceptual framework of Thaddeus and Maine's three delay model has been used to describe these barriers and highlight those that newly appeared owing to the COVID-19 pandemic. The model describes factors that delay the process of seeking healthcare according to three critical phases (first delay, family and community factors; second delay, factors related to accessibility; and third delay: services provided at the healthcare facility).

The analysis shows that existing factors affecting women's health seeking behavior remained and new barriers appeared (Figure 3). Importantly, new patient related obstacles emerged, such as less access to health facilities. Also, health system barriers appeared because health services were unavailable owing to closure or stock-outs as supply chains were affected. These findings are in line with recently published studies and highlight the importance of a multisectoral approach to reduce negative effects on women's sexual and reproductive health.

In settings where efficient hygiene measures to avoid COVID-19 transmission can be implemented, cervical cancer screening activities should be maintained and new emerging barriers addressed. For the Dschang cervical cancer program, three important key actions were identified: (1) coverage of transportation costs for women accepting cervical cancer screening at the Dschang District Hospital, (2) improvement of pandemic related health literacy, and (3) introduction of home based HPV self-sampling to reduce the risk of exposure at the hospital or during travel.

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