Third level care experience during SARS-CoV-2 pandemic

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Objective. As the SARS-CoV-2 Pandemic has widely changed pregnancy experience and assessment, the inpatient and outpatient services have had to be re-organized. Since March 2020, Careggi University Hospital (CUH) has provided a dedicated COVID-pathway: spaces for women with unknown swab status and a COVID-19 ward delivery room. The aim of this study is to analyze the inpatient and outpatient COVID-19 related activities in CUH.

Materials and Methods. We prospectively collected data from consecutive COVID-19 pregnancies referred from 2020 to 2022, included in the local branch of the ItOSS surveillance. All patients experienced COVID-19 in pregnancy at various stages of severity and gestational ages.

Results. From March 2020 to June 2022, 165 COVID-19 deliveries occurred (169 newborns), while 16 pregnant positive women were admitted without delivering. A single emergency C-section (CS) was performed because of Sars-CoV-2 related ARDS, 15 women experienced serious maternal morbidity and 5 needed ECMO. A single maternal death occurred four months after delivery (CS) by sepsis and multiple organ failure (MOF). For all these pregnancies neonatal outcomes were positive.

Conclusions. At Careggi Hospital Maternal Department an extensive re-organization of inpatient and outpatient services has been performed in order to guarantee good practice and management of all pregnant women during the SARS-CoV-2 pandemic. This was only possible thanks to a wide multidisciplinary group which enhanced every professional.