



UNIVERSITÀ
POLITECNICA
DELLE MARCHE

RESEARCH AREA: HEALTH – IMMUNOLOGY - EPIDEMIOLOGY

TITLE: Epidemiologic and laboratory findings and outcome of Sars--cov-2 exposed workers in Ancona University Hospital

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UNIVPM Research Group: University and Hospital research groups: Occupational medicine, Hygiene and Virology

Research activity description: From 9 april 2020 a "blanket" assessment of the COVID-19 infection spread was evaluated by clinical serological diagnostics and successive molecular tests in all healthcare workers. Blood samples were collected and serum IgM and IgG antibody to 19-Cov were performed by chemiluminescence immunoassay (CLIA) kits from the Shenzhen YHLO Biotech Co Ltd. (China). Antibody tests were performed by iFlash 1800 Chemiluminescence Immunoassay Analyzer YHLO. Aim: to describe in detail the infection and the clinical manifestations of SARS-CoV-2 infection in HCWs (incubation period, symptoms, severity), stratifying by age, sex, role, unit, type of healthcare facility, exposure to risk factors, use of PPE, effectiveness of implemented infection prevention and control measures. In those settings in which swabs are done to all HCWs, we will study the association between the clinical manifestations of the disease and the response to the swab (RT-PCR for the search of viral RNA, currently performed in all involved settings) and, prospectively, support the swab test with a chemiluminescent immunoassay (CLIA) and an enzyme-linked immunosorbent assay (ELISA) serological test, to associate the clinical manifestations to the response of the three tests and to the development of specific antibodies.



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OUR AIMS

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