

**Supplementary Table 2. Definitions of vital signs and laboratory/radiologic data before and after secondary infection**

Variable	Definition
Pre MBP	The lowest mean BP among mean BPs within 1 day before infection confirmation
Pre HR	The highest HR among HR within 1 day before infection confirmation
Pre RR	The fastest RR within 1 day before infection confirmation
Pre BT	The highest BT among BT within 1 day before infection confirmation
Pre O <sub>2</sub> need	The highest FiO <sub>2</sub> within 1 day before infection confirmation
Pre WBC	The highest WBC performed closer to the prior date of confirmation of infection
Pre CRP	The highest CRP performed closer to the prior date of confirmation of infection
Pre procalcitonin	The highest procalcitonin performed closer to the prior date of confirmation of infection
Post MBP	The lowest mean BP among mean BPs within 1 day after infection confirmation
Post HR	The highest HR among HR within 1 day after infection confirmation
Post RR	The fastest RR within 1 day after infection confirmation
Post BT	The highest BT among BT within 1 day after infection confirmation
Post O <sub>2</sub> need	The highest FiO <sub>2</sub> within 1 day after infection confirmation
Post WBC	The highest WBC performed closer to the date after infection was confirmed.
Post CRP	The highest CRP performed closer to the date after infection was confirmed.
Post procalcitonin	The highest procalcitonin performed closer to the date after infection was confirmed.
Chest X-ray	
Deterioration of GGO	In case of GGO aggravation on the CXR before and after the date of infection, the radiologist and/or pulmonologist confirmed GGO aggravation of CXR.
Deterioration of consolidation	In case of consolidation aggravation on the CXR before and after the date of infection, the radiologist and/or pulmonologist confirmed consolidation aggravation of CXR.
Deterioration of chest X-ray	In case of any type of aggravation on the CXR before and after the date of infection, the radiologist and/or pulmonologist confirmed deterioration of CXR.

MBP, mean blood pressure; BP, blood pressure; HR, heart rate; RR, respiratory rate; BT, body temperature; FiO<sub>2</sub>, fraction of inspired oxygen; WBC, white blood cell; CRP, C-reactive protein; GGO, ground glass opacity; CXR, chest X-ray.