COVID-19 Pneumonia Diagnosis and Treatment (7th edition)

COMPOSITION/ENCOUNTER

Clinical background

SECTION.text has heading?

- Age
  - CWO.Age
  - Chronological age
    - DV_Duration
- Symptom/sign screening questionnaire
  - CWO.Symptom/sign screening question...
  - Screening purpose
    - DV_TEXT
    - Suspected disease caused by SARS-CoV-2
  - Symptom(s)/Asymptomatic?
    - DV_CONCEPTCAT
    - Present
    - Absent
    - Unknown
  - Typical symptom/sign
    - CLUSTER.Specific sy...
    - Symptom or sign name
      - DV_TEXT
      - Fever
      - Fatigue
      - Dry cough
      - Nasal congestion
      - Nasal discharge
      - Sore throat
      - Muscle pain
      - Headache
      - Shortness of breath
      - Diarrhea
    - Presence?
      - DV_CODE...
      - Present
      - Absent
      - Unknown
  - Chief specific symptoms/sign
    - CLUSTER.Specific symptom...
    - Symptom or sign name
      - DV_TEXT
      - Vomiting
      - Drowsiness
      - Anorexia
      - Lethargy
      - Convulsion
      - Infant feeding problem
      - Irritability
      - Defecation
      - Distressed breathing
      - Cyanosis
    - Presence?
      - DV_CODE...
      - Present
      - Absent
      - Unknown
- Conditions/finding screening questionnaire
  - Condition screening questionnaire...
  - Specific condition
    - CLUSTER
    - Condition name
      - DV_TEXT
      - Hypoxemia
      - Cyanosis
      - Dyspnea
      - Acute respiratory distress syndrome
      - Septic shock
      - Metabolic acidosis
      - Coagulation
      - Blood coagulation disorder
      - Shock
      - Multiple organ failure
      - Pregnant
      - Comorbid conditions
      - Immunodeficiency
      - Acute respiratory failure
      - Asphyxiation
      - Pulmonary edema
      - Fluid overload pulmonary edema
      - Respiratory distress
    - Presence?
      - DV_CODE...
      - Present
      - Absent
      - Unknown
- Management/treatment screening questionnaire
  - Management/treatment screening questionnaire
  - Specific management/treatment activity
    - CLUSTER
    - Activity name
      - DV_TEXT
      - Mechanical ventilation
      - Admission to intensive care unit
    - Carried out?
      - DV_CODE...
      - Actioned
      - Not actioned
      - Unknown
- Vital signs
  - SECTION
  - Body temperature
    - CWO.Body temper...
    - Temperature
      - DV_QUANT
  - Respiration
    - CWO.Resp...
    - Rate
      - DV_QUAN...
  - Pulse oximetry
    - CWO.Pulse ox...
    - SpO2
      - DV_PROP...
    - [Inspired oxygen]
      - CLUSTER
      - Inspired oxygen
        - DV_TEXT
      - FiO_2
        - DV_PROPO...
- Laboratory tests
  - SECTION.text has ...

Assessment

SECTION.text has s...

- COVID-19 exposure assessment
  - EVA.Exposure assessment...
  - Last 14 days
    - ENT.EVENT
    - Exposure
      - DV_TEXT
      - Exposure to severe acute respiratory syndrome coronavirus 2
    - Per risk factor
      - CLUSTER
      - Risk factor
        - DV_TEXT
        - Travel to an at-risk location
        - Reside in an at-risk location
        - Contact with an infected person
        - Contact with an at-risk person
      - Presence
        - DV_CO...
        - Present
        - Indeterminate
        - Absent
- COVID-19 clinical assessment
  - EVA.Health risk assessment
  - Health risk
    - DV_TEXT
    - Disease caused by severe acute respiratory syndrome coronavirus 2
  - Clinical manifestation
    - CLUSTER
    - Clinical factor
      - DV_TEXT
      - Presentation with fever and/or respiratory symptoms
      - Imaging consistent with COVID-19 pneumonia
      - Early levels of leukocytes or lymphocytes normal or decreased
      - RT-PCR positive for COVID-19
      - Gene sequencing highly homologous with COVID-19
      - IgM and IGM positive for COVID-19
      - Chest imaging finding(s) suspicious for viral pneumonia(with at least 2 lobes involved)
      - IgG antibody changed from negative to positive
      - The recovery period of IgG antibodies is four times or more higher than the acute period
      - Respiratory distress and/or hypoxemia cannot be alleviated or even get worse
      - Progressive deterioration of coagulation index Cytokine associated toxicity
    - Presence
      - DV_CO...
      - Present
      - Indeterminate
      - Absent
- Risk of severe and critical disease
  - EVA.Health risk assessment
  - Health risk
    - DV_TEXT
    - Risk of severe or critical disease
  - Adult risk factors
    - CLUSTER.Risk f...
    - Risk factor
      - DV_TEXT
      - Progressive decrease in lymphocytes
      - Progressive increase in inflammatory biomarkers, including IL-6 and CRP
      - Progressive increase in lactic acid
      - Rapid progression of lung lesions
    - Presence
      - DV_CO...
      - Present
      - Indeterminate
      - Absent
  - Child risk factors
    - CLUSTER.Risk f...
    - Risk factor
      - DV_TEXT
      - Increase in respiratory rate(tachypnea, bradypnea), cyanosis, signs of lower respiratory tract deformity, abnormal hemoglobin and sever anemia, shock, and multiple organ failure
      - Poor mental reaction and drowsiness
      - Underlying immunodeficiency
      - Progressive increase in lactic acid
      - Infiltration on both sides or in multiple lobes on chest x-ray
      - Pleural effusion on chest x-ray
      - Rapid progression of lung lesions on chest x-ray
      - Underlying diseases (for example congenital heart ...
    - Presence
      - DV_CO...
      - Present
      - Indeterminate
      - Absent
- Differential diagnosis
  - EVA.Differential diagn...
  - Differential diagnosis
    - CLUSTER
    - Diagnosis
      - DV_TEXT
      - Upper respiratory tract infections
      - COVID-19 pneumonia
      - Other viral pneumonia
      - Mycoplasma pneumonia
      - Vasculitis
      - Dermatomyositis
      - Cryptogenic organizing pneumonia
    - Likelihood
      - DV_CODE...
      - Suspected
      - Likely

Treatment

SECTION.text has ...

- Treatment
  - INSTRUC...
  - Activity name
    - DV_TEXT
    - Isolation because of infection
    - Bedrest
    - Admission to intensive care unit
    - Fluid balance monitoring
    - Feeding and dietig regime
    - Vital signs monitoring
    - Oxygen therapy support
    - Antiviral therapy
    - Antibiotic therapy
    - Extracorporeal membrane oxygenation
    - Non-invasive ventilation
    - Tracheal intubation
    - Mechanical ventilation
    - Prone body position
    - Circulatory care
    - Renal care
    - Nutrition
    - Immunotherapy
    - Termination of pregnancy
    - Traditional Chinese Medicine therapy
    - Psychological counselling
    - Physiotherapist
    - Oxygen saturation measurement
    - Nonincasive hemodynamic monitor
    - Invasive hemodynamic monitoring
    - Continuous renal replacement therapy
    - Therapeutic plasmapheresis using plasma as the major replacement fluid
    - Glucocorticoid therapy
- Medication recommendation
  - INSTRUCTION.Medication order
  - Medication item
    - DV_TEXT
    - Interferon (IFN)
    - Lopinavir
    - Ritonavir
    - Ribavirin
    - Methylprednisolone
    - Chloroquine phosphate
    - Glucocorticoid
    - Immunoglobulin
    - Gamma globulin
    - Tocilizumab
  - Route
    - DV_...

Discharge

SECTION.text has ...

- Discharge criteria
  - EVA.Health risk ...
  - Health risk
    - DV_TEXT
    - Medically fit for discharge
  - Clinical factors
    - CLUSTER
    - Factor
      - DV_T...
      - Body temperature normal for more than 3 days
      - Respiratory symptoms improved
      - Chest x-ray shows absorption of inflammation
      - Nucleic acid tests negative on 2 consecutive samples, at least 24 hours apart
    - Presence
      - DV_CO...
      - Present
      - Indeterminate
      - Absent

Conclusion

SECTION.text has ...

- COVID-19 diagnosis
  - EVA.ProblemsDiagn...
  - Problem/Diagnosis name
    - DV_TEXT
    - Problem/Diagnosis name
  - Severity
    - DV_TE...
    - Mild
    - Moderate
    - Severe
    - Critical
- Other diagnosis
  - EVA.Problems/...
  - Problem/Diagnosis name
    - DV_TEXT
  - Severity
    - DV_TE...
    - Mild
    - Moderate
    - Severe

XMind | Trial Mode