Spontaneous pneumoperitoneum and subcutaneous emphysema as unusual complications of coronavirus disease 2019

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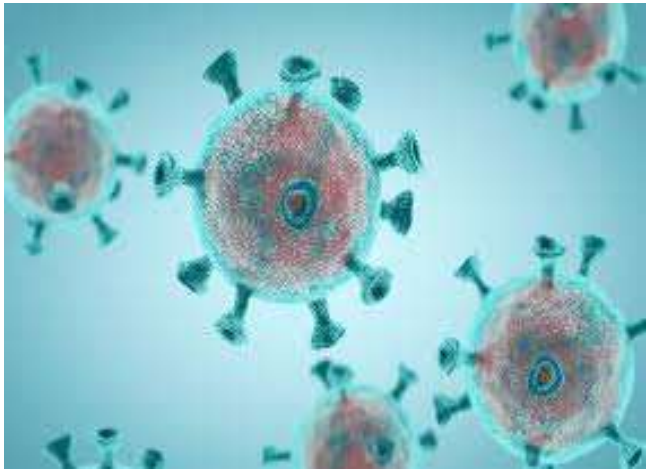
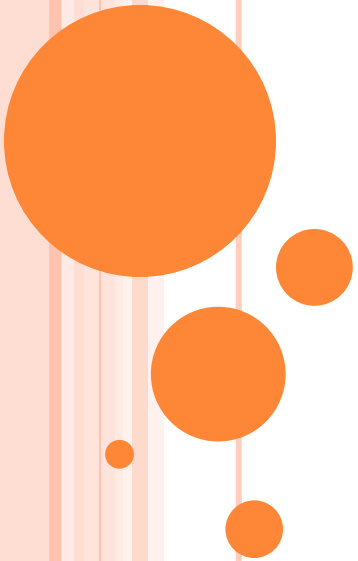
Covid19 is an infectious disease caused by SARS-COV-2 who has become a global pandemic and serious health problem.It usually affects lungs and from the symptoms dominate fever,cough,chest pain,fatigye,headache and myalgia after 2-14 days from exposere.The virus enter the cells through the ACE-2receptor which is expressed in the epithelium of GIT,from the esophagus to the colon.



CT has an important role in initial evaluation and follow up of Covid19 especially in patients with false negative PCR results.

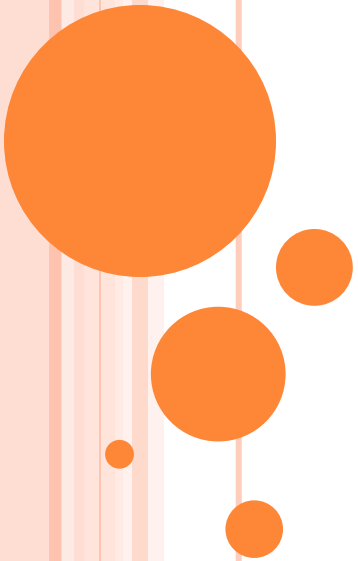
This was an 55 old female patient with gastrointestinal symptoms and difusse abdominal pain with signs of peritonitis,erythema,nausea and vomitus.She had negative PCR for Covid from previous day and was afebrile and tachydispnoic.Computed tomography of the chest and abdomen showed subcutaneous emphysema billateral more right and extensive pneumoperitoneum.



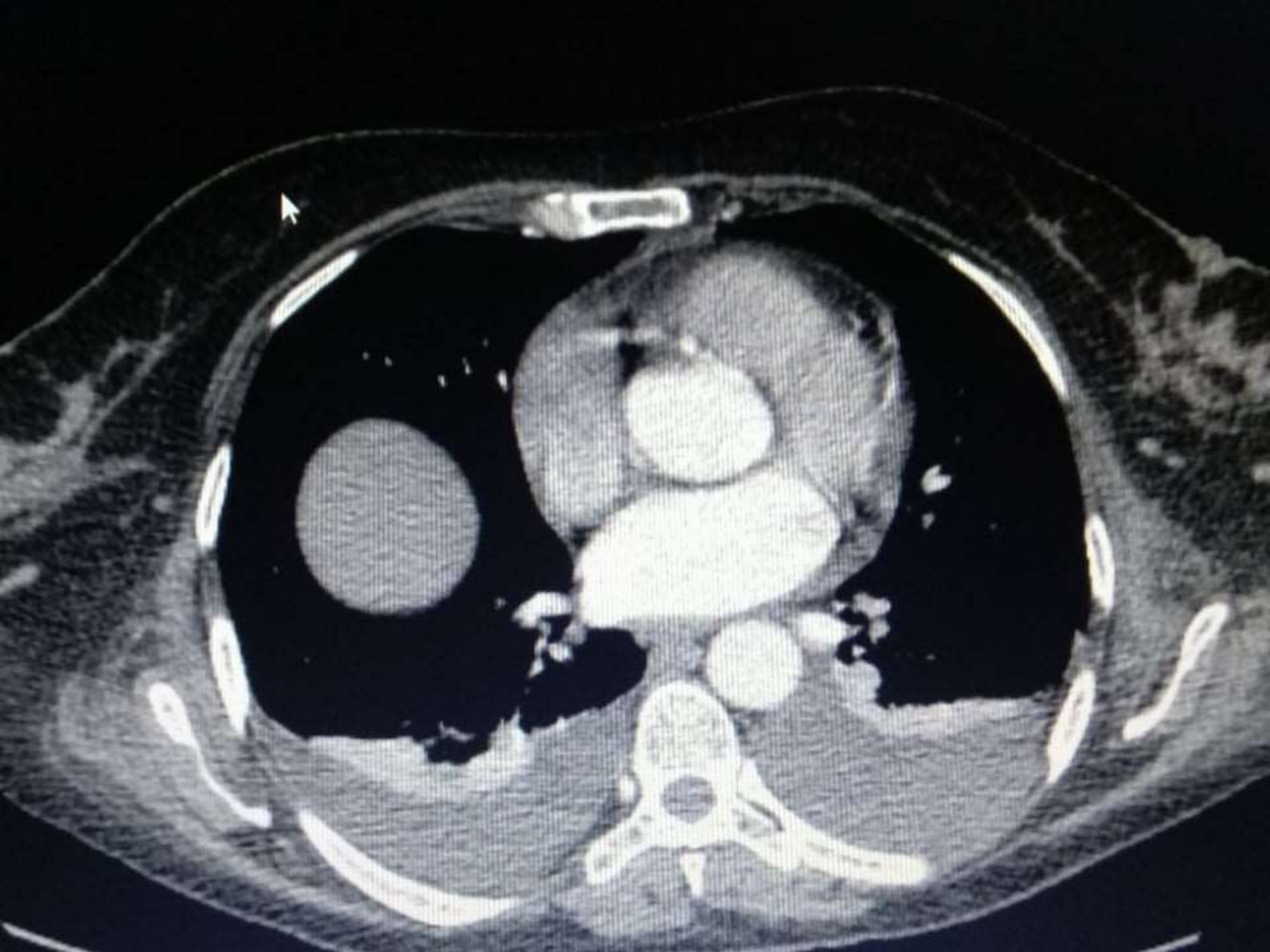
This patient was immediately threatened like surgical case,after the operation of laparatomy was done another CT of chest and abdomen-billateral pleural effusion and extensive pneumoperitoneum again.

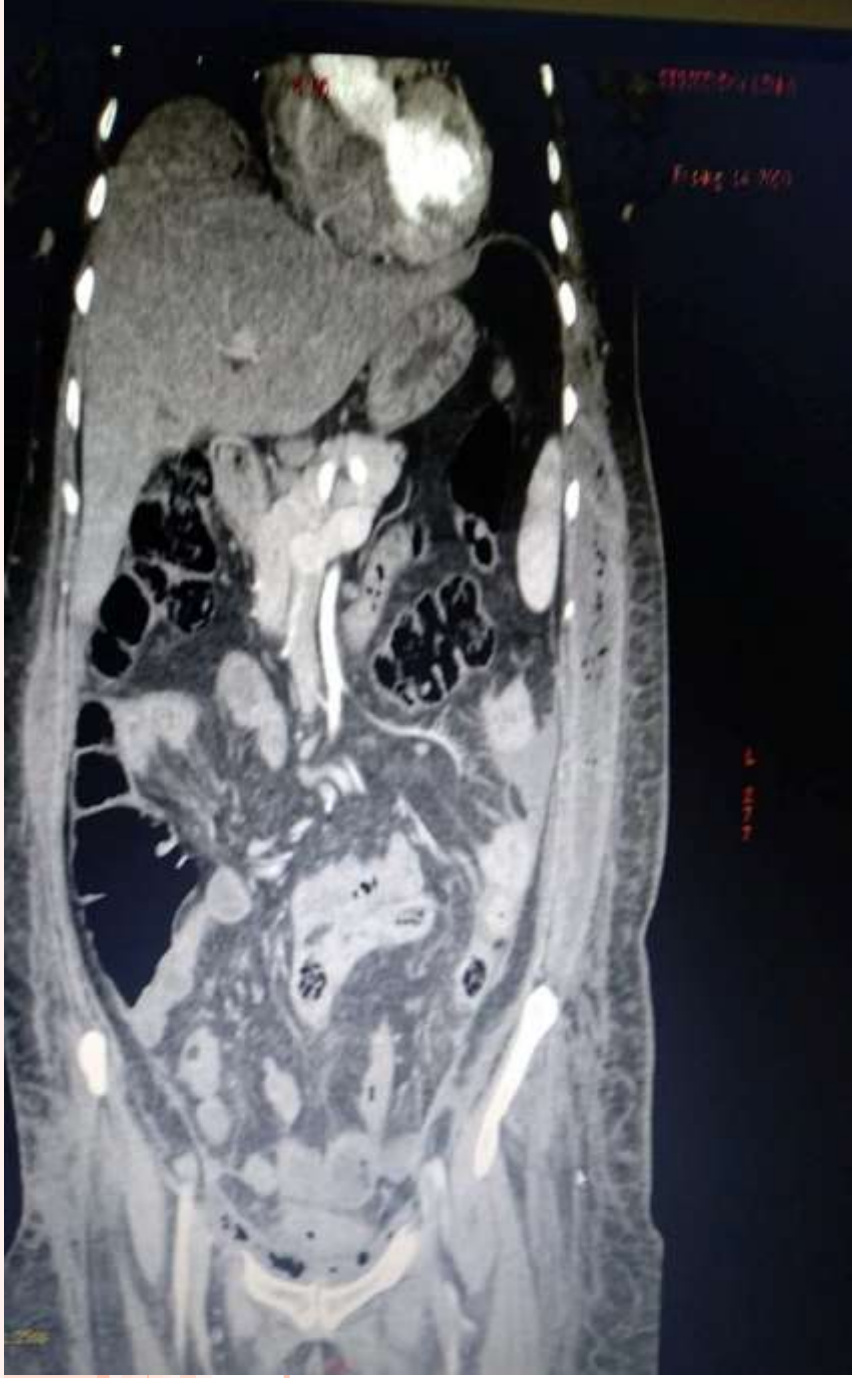
In hospital she was tested for Covid 19 five times,nonconclusive,++,--.

With diagnosis of Covid 19 and evolution that included acute abdomen and pneumothorax postoperative seen on CT,this patient was transferred in hospital 8 of September where was done median relaparatomy.Patient devoloped septic shock and died.



The presentation of Covid19 with subcutaneos emphysema and spontaneous pneumoperitoneum is rare clinical case where CT was with essentional meaninig for diagnosis.It will be ideal to make screening for Covid19 for every patient before operation.





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