

**Antiplatelet Therapy Following Percutaneous Coronary Intervention in
Patients Complicated by COVID-19: Implications from Clinical Features to
Pathological Findings**

Running Title: *I d T P X P T T C T a P h P E -*



Address for Correspondence:

Circulation



Circulation

Figure



Circulation

Figure

individuals that are thrombocytopenic would lose the ability to deposit fibrinogen and fail to seal the damaged pulmonary vasculature.



Circulation



Circulation

Acknowledgments

The authors thank Drs. Haonan Sun, Zhijia Wang, Hangkuan Liu, Yifan Guo, Chunpo Liang and Chengcheng Wu for literature searching and valuable suggestions for this manuscript.

Sources of Funding

Disclosures



Circulation

References

1. $V \quad 9 \quad T$
2. $V \quad 9 \quad T$
3. $P \quad Vh$
4. $dT \quad aX$
5. $I \quad V \quad dP \quad dT \quad T \quad dT \quad I \quad P \quad I \quad X$

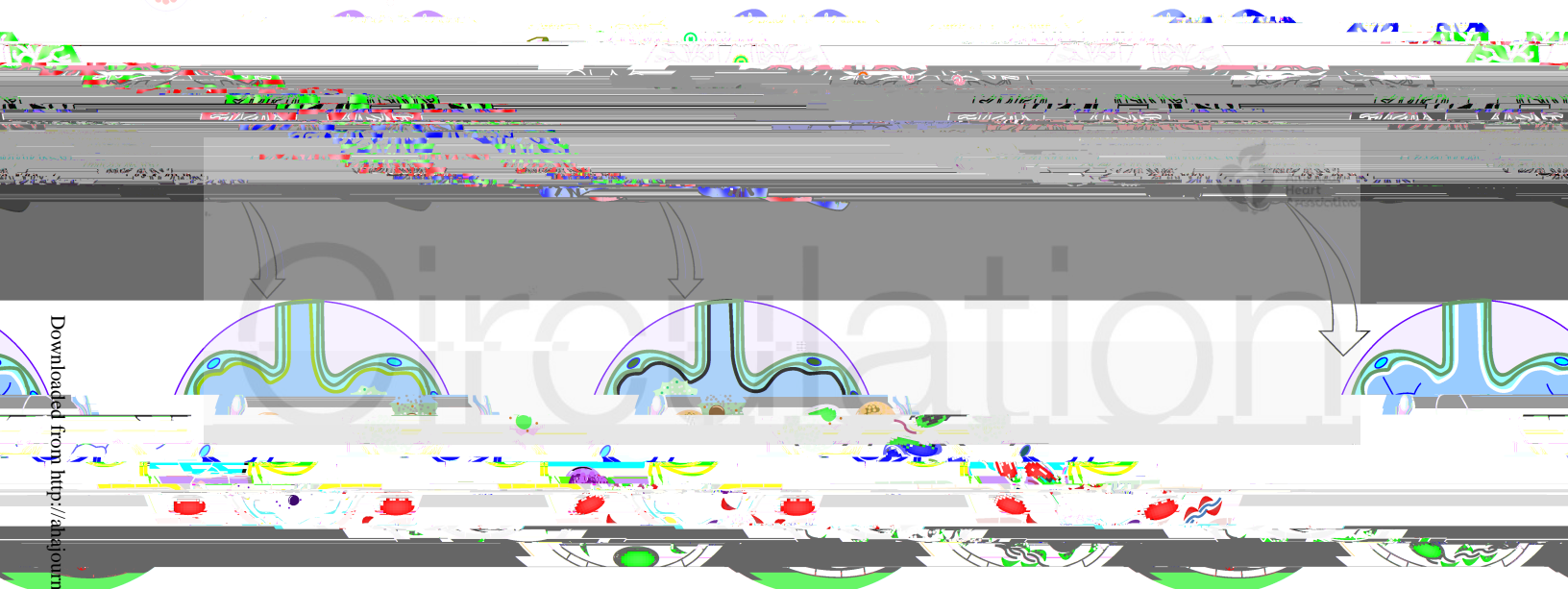
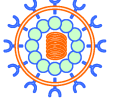
Figure Legend

Figure. The potential pathophysiological evolution of SARS-CoV-2 infection in lung tissue and implications for antiplatelet therapy.



Circulation

SARS-CoV-2



• Airway epithelial damage
 • Platelet consumption
 • Tissue factor depletion
 • Disseminated intravascular coagulation
 • Airway epithelial hemorrhage

- Virus-membrane interaction
- Virus replication
- Virus dissemination

- Endothelial dysfunction
- Platelet activation
- Neutrophil-platelet aggregate formation
- Neutrophil migration
- Fibrin/thrombus formation

- Diffuse alveolar damage
- Platelet activation
- Coagulation
- Disseminated intravascular coagulation
- Diffuse alveolar damage

Disease Progression



Alveolar macrophage

Red blood cell

Platelet

Fibrin

Neutrophil

Neutrophil-platelet aggregate

Alveolar macrophage

Downloaded from <http://arxiv.org/abs/2003.09291> on 03/11/2020