**Pro-inflammatory Stimuli**
SARS-CoV-2, Influenza, Other viruses, Bacterial superinfection

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Inflammasome/Inflammatory cell activation
(macrophages + others)

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IL-1β + TNFα + thrombin, other mediators

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**Capillary Loss**

**Physical**
EC death
Vessel regression

**Functional**
Increased permeability
Vasoconstriction
Thrombosis
Hemorrhage

*Contributing Patient Variables*
Pre-existing conditions impacting tissue capillary density
Age
Microbiota

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**Local or Systemic Pathological Effect**
Tissue Ischemia
Hypoxia
Organ Failure

**Therapeutic Options and Goals**
Combinations of pharmacological inhibitors, neutralizing antibodies, and recombinant proteins:

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Blockade of capillary loss (Capillary Protection)
to reduce vascular permeability, inhibit capillary regression, and maintain/enhance tissue oxygenation