Eligibility Criteria

Sex: All

Age: 30 Years to 85 Years old

Healthy Volunteers: This study is also accepting healthy volunteers

Inclusion Criteria, Stage 1 Treatment Trial:
• Positive laboratory test for active SARS-CoV-2 viral infection based on local laboratory standard (i.e. +PCR) within 3 days of randomization; negative antibody test not required.
• Age >=30 years and < 85 years
• GFR>45ml/min within 2 weeks of enrollment
• Patient has medical record visible within the EHR of participating sites
• BMI >= 25kg/m2 by self-report height/weight or >= 23kg/m2 in patients who self-identify in S. Asian or Latinx background.
• Willing and able to comply with study procedures
• Has an address and electronic device for communication

Exclusion Criteria, Stage 1 Treatment Trial:
• Symptom onset greater than 7 days before randomization (symptoms not required for inclusion).
• Currently taking metformin
• Electronic medical record history of kidney disease, i.e.:
  • Estimated Glomerular Filtration Rate (eGFR) of < 45ml/min/1.73 m2
  • Other kidney disease that in the opinion of the investigator would affect clearance
• Electronic medical record history of severe liver disease
• Other liver disease that in the opinion of the investigator would affect metformin clearance
• Documented AST or ALT > 3 times the upper limit of normal within 3 months of randomization (if available in electronic medical record)
• EHR of NYHA Stage 3 or 4 heart failure
• Inability to obtain informed consent
• Enrollment in another blinded RCT for COVID-19
• Alcohol use disorder
• Patients taking these medications: cimetidine, hydroxychloroquine, insulin, sulfonylurea, dolutegravir, patiromer, ranolazine, tafenoquine
• Hospitalized, for COVID-19 or other reasons.

Conditions & Interventions

Interventions:
• Drug: Metformin
• Drug: Placebo

Conditions:
• Covid19, SARS-CoV Infection

More Information

Contact(s): Carolyn Bramante, MD - metstudy@umn.edu
Phase: Phase 2/Phase 3
IRB Number: NCT04510194

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