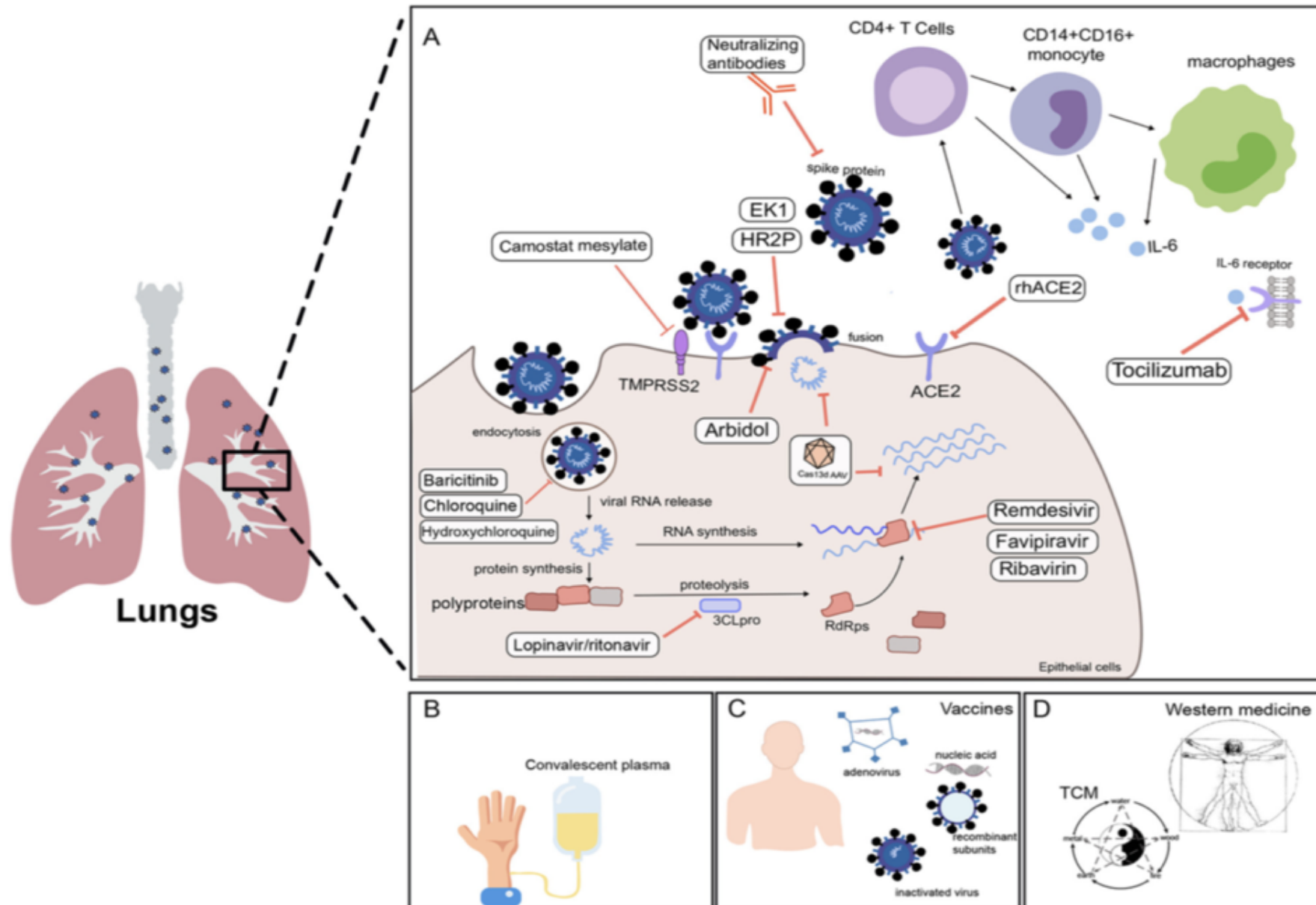


TAMEST COVID-19 Webinar

Mamta K. Jain, MD, MPH, FIDSA

June 11, 2020

Therapeutic Targets

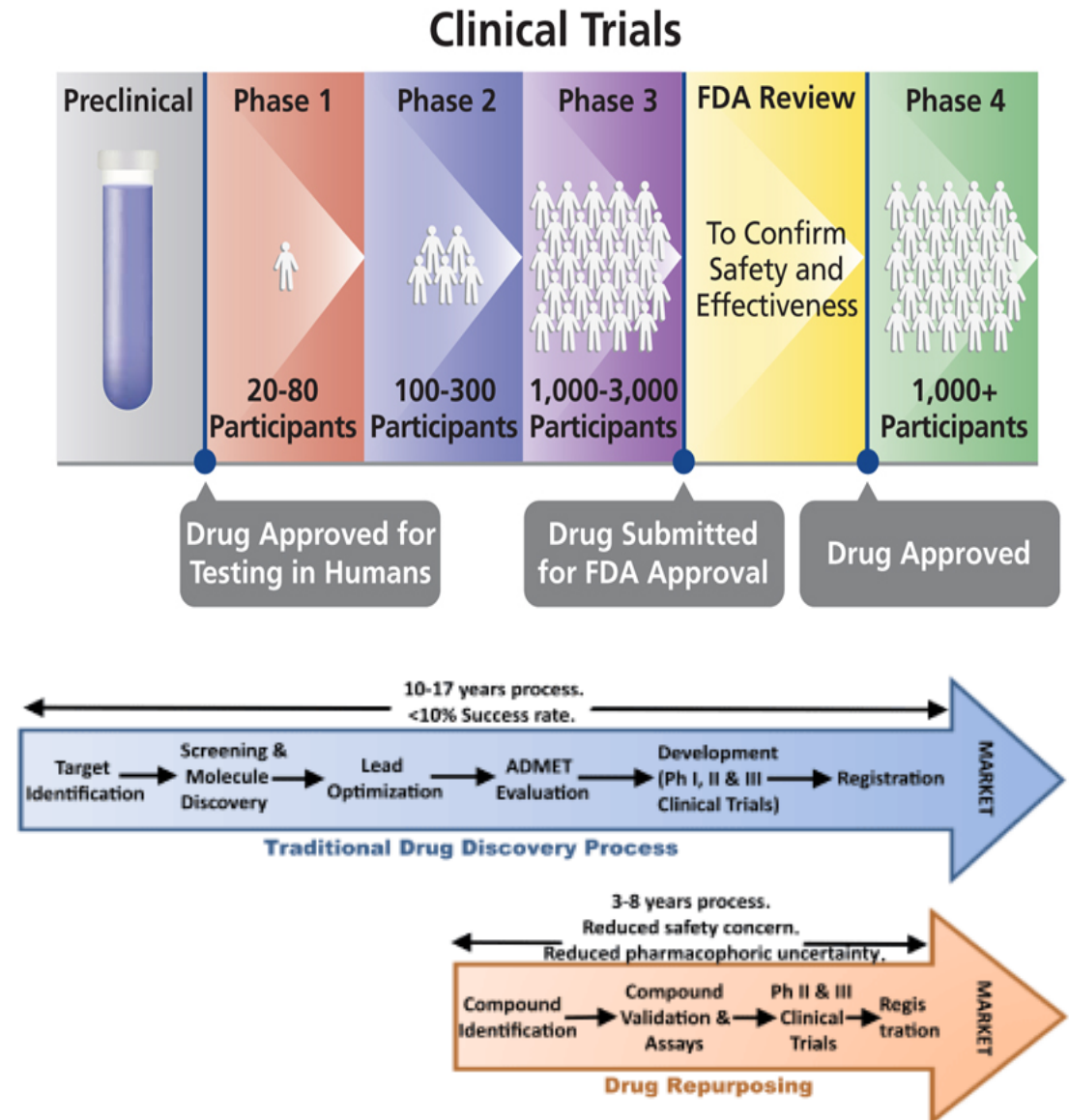


Clinical Trials: UT Southwestern & PHHS

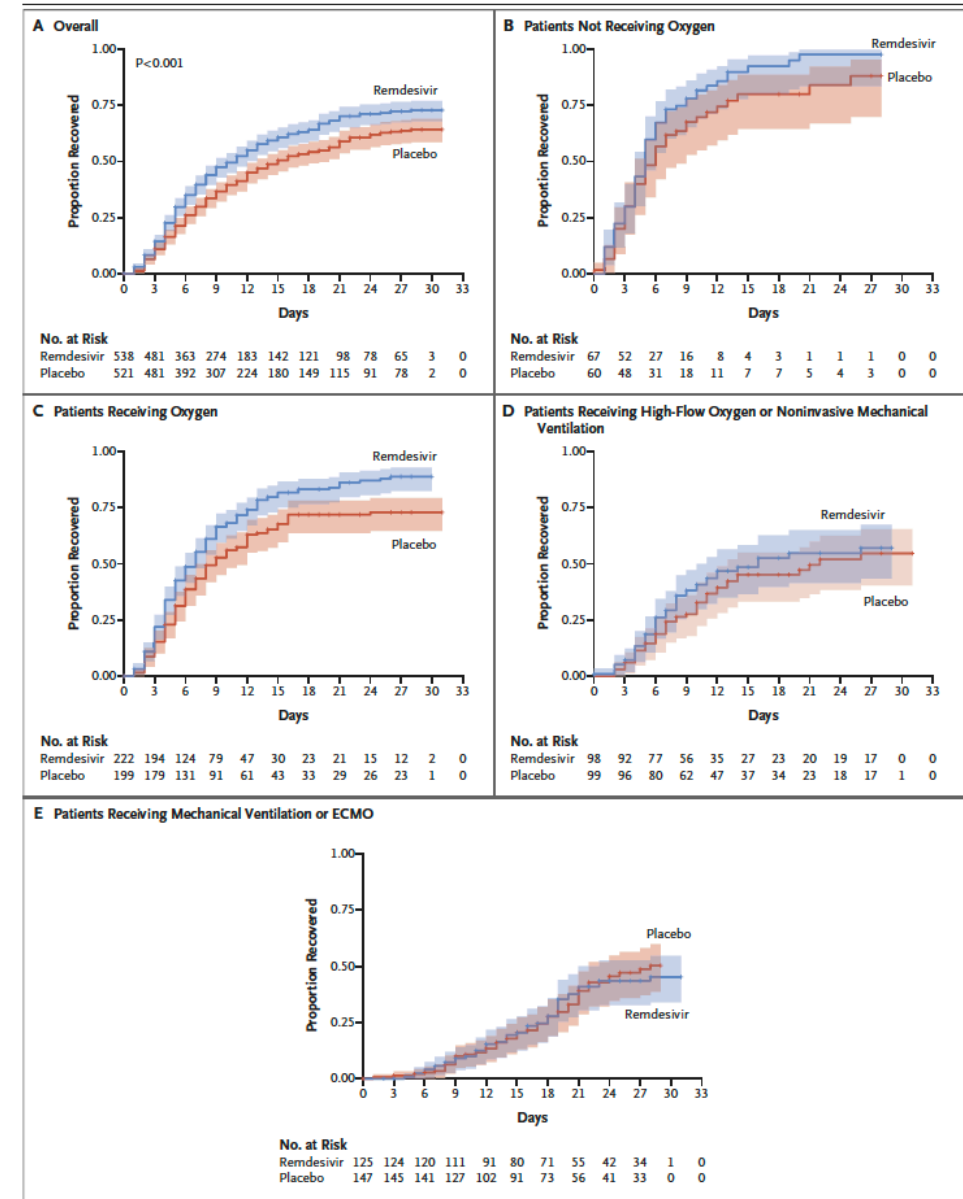
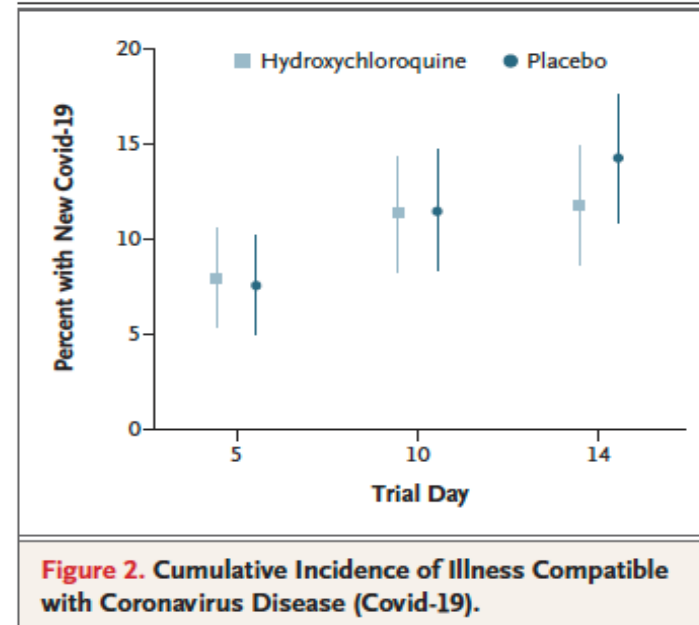
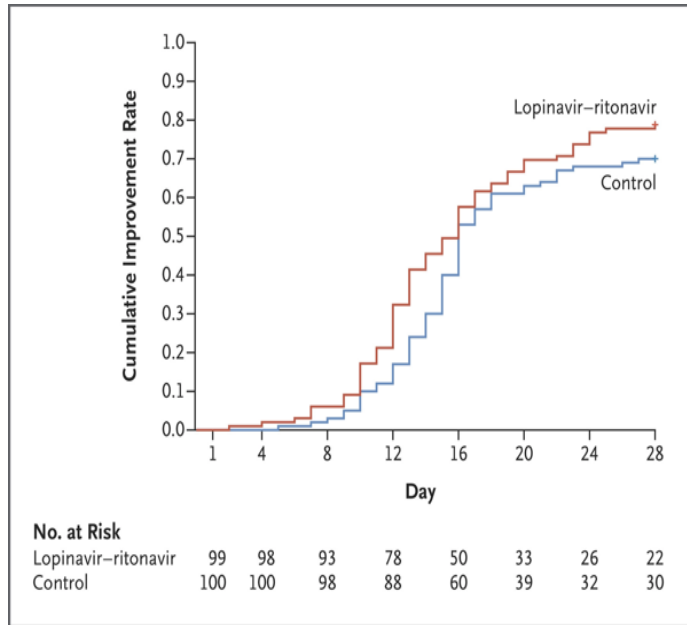
Gilead: remdesivir		Regeneron: sarilumab	HERO: hydroxychloroquine	NIH ACTT2: remdesivir +/- baricitinib
Moderate ; hospitalized	Severe; hospitalized	Severe to critical ; hospitalized	Prevention ; outpatient	Hospitalized
Inclusion : <ul style="list-style-type: none"> + COVID ≤ 4 days SpO2 >94% on room air Pulmonary infiltrates 	Inclusion : <ul style="list-style-type: none"> + COVID ≤ 4 days SpO2 ≤94% on room air or requiring supplemental oxygen Pulmonary infiltrates 	Inclusion: <ul style="list-style-type: none"> +COVID pcr+ <14 days Pulmonary infiltrates Fever Supplemental oxygen 	Inclusion: <ul style="list-style-type: none"> Healthcare workers with high risk exposure Asymptomatic 	Inclusion: <ul style="list-style-type: none"> COVID pcr + <72 hours Illness any duration with No participation in other COVID-19 trials
Exclusion: <ul style="list-style-type: none"> Participation in other COVID-19 trials ALT or AST >5X ULN Cr Cl <50 ml/min Pregnancy/breastfeeding Treatment with other COVID-19 antivirals < 24 hours Mechanical ventilation 	Exclusion: <ul style="list-style-type: none"> Participation in other COVID-19 trials ALT or AST >5X ULN Cr Cl <50 ml/min Pregnancy/breastfeeding Treatment with other COVID-19 antivirals < 24 hours Mechanical ventilation > 5 days 	Exclusion: <ul style="list-style-type: none"> ANC <2000mm³ AST or ALT >5 XULN Platelet <50,000 per mm³ Receipt of leflunomide or methotrexate Known active TB, extrapulmonary TB, suspected or active bacterial or fungal infection 	Exclusion: <ul style="list-style-type: none"> Symptoms of fever, cough, fever, shortness of breath for 5 days Congenital prolonged qTC use of medication which can lead to prolonged qTC Prior COVID infection End stage renal disease Prior retinopathy 	Exclusion: <ul style="list-style-type: none"> Cr cl <30 ml/min ALT or AST >5 ULN Pregnancy/breastfeeding Immunosuppressive medications Live vaccine in prior 4 weeks Active or untreated TB Hx of VTE
Group 1 : 5 days Group 2: 10 days Group 3: standard of care	Group 1: 5 days Group 2: 10 days	Phase 2: Phase 3: Group 1: 200 mg. Cohort 1: 400 mg Group 2: 400 mg. Cohort 2: 800 mg Group 3: placebo Cohort 3: 800 mg	hydroxychloroquine 30 days vs placebo	remdesivir vs. remdesivir +baricitinib
Enrolled 25 patients	Enrolled: 135	Enrolled: 36	Enrolled: 12	Enrolled: 7
Closed	Closed	Open	Open	Open

Challenges of Clinical Trials During a Pandemic

- (1) Lack of knowledge of why we need to do clinical trials
 - I want a drug that works
 - I don't want to be a "guinea pig"
 - I am afraid of the side effects
- (2) Is it ethical to give a placebo?
- (3) Infrastructure to scale up clinical trials
 - Research coordinators, data collection and entry, monitoring and reporting
- (3) Language barriers
- (4) consenting and working remotely
 - Lack of PPE, fear among research staff to see COVID-19 patients



Repurposed Drugs for COVID-19



Cao B. et al, NEJM. https://www.nejm.org/doi/full/10.1056/NEJMoa2001282?query=featured_home

Hung et al. *Lancet* 2020 [https://doi.org/10.1016/S0140-6736\(20\)31042-4](https://doi.org/10.1016/S0140-6736(20)31042-4)

Beigel et al. *New Engl J Med* May 22, 2020

Boulware et al. *N Engl J Med* June 3, 2020