

INCODA prioritization

Sept 8, 2020

	Host	Host	SEC	Viral
Questions	Is there a correlation between common co-morbidities and COVID-19 infection and severity?	Is there a correlation between care utilization and COVID-19 infection and severity?	Is there a correlation between sociodemographic factors and COVID-19 infection and severity?	Is severity of disease related to intensity of exposure (innoculum dose, aerosolization, duration of exposure)?
What can be answered now	<ul style="list-style-type: none"> Describe co-morbidities among hospitalized, stratified by severity and over time 	<ul style="list-style-type: none"> Describe care utilization <u>pre</u> and <u>post</u> admission among hospitalized, stratified by severity (or use zipcode) 	<ul style="list-style-type: none"> Describe SEC* among hospitalized, stratified by severity Social deprivation in relation to severity 	<ul style="list-style-type: none"> Evaluate if correlation between cluster in household and severity of disease among hospitalized
Added value CBS micro data	<ul style="list-style-type: none"> Access to details of co-morbidities, <ul style="list-style-type: none"> e.g. insulin dependent vs non-dependent DM, duration of CVD, etc 	<ul style="list-style-type: none"> Access to care utilization data 	<ul style="list-style-type: none"> Access to SEC data 	<ul style="list-style-type: none"> Access to household status data
Needed data	<ul style="list-style-type: none"> <u>Testing data</u> to compare co-morbidities among non-hospitalized and hospitalized Broaden <u>hospital data</u> 	<ul style="list-style-type: none"> <u>Testing data</u> to compare care utilization among general population, non-severe and hospitalized pre and post-infection <u>Post COVID-19 poli</u> data to correlate post-inf symptoms to care util. 	<ul style="list-style-type: none"> <u>Testing data</u> to compare SEC among general population, non-severe and hospitalized pre and post-infection 	<ul style="list-style-type: none"> <u>Testing data</u> <u>Household detail</u> Evaluate clusters of severe infections in households <ul style="list-style-type: none"> super spreaders => few households w/everyone severe infection vs conditional risk => a lot of households w/severe infection; wide vs narrow heterogeneity?
Policy implications	<ul style="list-style-type: none"> Identify highest-risk patients, allowing <ul style="list-style-type: none"> vaccine prioritization narrowed social protective measures 	<ul style="list-style-type: none"> Identify highest-risk patients, allowing <ul style="list-style-type: none"> vaccine prioritization narrowed social protective measure Characterize costs Evidence for preventive care interventions post-COVID 	<ul style="list-style-type: none"> organization of home care delivery, resource allocation: <ul style="list-style-type: none"> education, targeted social distancing vaccination prioritization 	<ul style="list-style-type: none"> Advice for household and community control => community vs household masking

	SEC*	Additional questions
Questions	<ul style="list-style-type: none">• disposable income• education level• immigration status• marital status• working status• essential/non-essential work• place of residence - nursing home, apartment, house etc• type of care - thuis zorg vs not• Household composition - intergenerational, number children, etc• change in income status during COVID-19	