Supplemental Material

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* Encoding: UTF-8.

*APACHE.
RECODE Ageyrs (SYSMIS=0) (Lowest thru 44=0) (45 thru 54=2) (55 thru 64=3) (65 thru 74=5) (75 thru
    Highest=6) INTO agepoints.
VARIABLE LABELS  agepoints 'APACHE II points: age'.
EXECUTE.
RECODE Temperature°C (CONVERT) ('?41 (4)'=4) ('39-40.9 (3)'=3) ('38.5-38.9 (1)'=1) ('36-38.4 '+
    '(0)'=0) ('34-35.9 (1)'=1) ('32-33.9 (2)'=2) ('30-31.9 (3)'=3) ('?29.9 (4)'=4) ('missing (0)'=0)
    (MISSING=0) INTO temppoints.
VARIABLE LABELS  temppoints 'APACHE II Temperature points'.
EXECUTE.
RECODE MeanArterialPressure (CONVERT) ('missing (0)'=0) (MISSING=0) ('?160 (4)'=4) ('130-159 '+
    '(3)'=3) ('110-129 (2)'=2) ('70-109 (0)'=0) ('50-69 (2)'=2) ('?49 (4)'=4) INTO mappoints.
VARIABLE LABELS  mappoints 'APACHE II MAP points'.
EXECUTE.
RECODE Heartrate (CONVERT) ('missing (0)'=0) (MISSING=0) ('?180 (4)'=4) ('140-179 '+
    '(3)'=3) ('110-139 (2)'=2) ('70-109 (0)'=0) ('55-69 (2)'=2) ('40-54 (3)'=3) ('?39 (4)'=4) INTO hrpoints.
VARIABLE LABELS  hrpoints 'APACHE II HR points'.
EXECUTE.
RECODE Respiratoryrate (CONVERT) ('missing (0)'=0) (MISSING=0) ('?50 (4)'=4) ('35-49 '+
    '(3)'=3) ('25-34 (1)'=1) ('12-24 (0)'=0) ('10-11 (1)'=1) ('6-9 (2)'=2) ('?5 (4)'=4) INTO rrpoints.
VARIABLE LABELS  rrpoints 'APACHE II RR points'.
EXECUTE.
RECODE Oxygenation (CONVERT) ('missing (0)'=0) (MISSING=0) ('?500 (4)'=4) ('350-499 '+
    '(3)'=3) ('200-349 (2)'=2) ('71-199 (0)'=0) ('61-70 (1)'=1) ('55-60 (3)'=3) ('< 55 (4)'=4) INTO oxpoints.
VARIABLE LABELS  oxpoints 'APACHE II Oxygenation points'.
EXECUTE.
RECODE ArterialpH (CONVERT) ('missing (0)'=0) (MISSING=0) ('?7.7 (4)'=4) ('7.6-7.69 '+
    '(3)'=3) ('7.5-7.59 (1)'=1) ('7.33-7.49 (0)'=0) ('7.25-7.32 (2)'=2) ('7.14-7.24 (3)'=3) ('< 7.15 (4)'=4) INTO aphpoints.
VARIABLE LABELS  aphpoints 'APACHE II Art_pH points'.
EXECUTE.
RECODE SerumSodiummMolL (CONVERT) ('missing (0)'=0) (MISSING=0) ('?180 (4)'=4) ('160-179 '+
    '(3)'=3) ('155-159 (2)'=2) ('150-154 (1)'=1) ('130-149 (0)'=0) ('120-129 (2)'=2) ('111-119 (3)'=3) ('?110 (4)'=4) INTO
napoints.
VARIABLE LABELS  napoints 'APACHE II Sodium points'.
EXECUTE.
RECODE SerumPotassiummMolL (CONVERT) ('missing (0)'=0) (MISSING=0) ('>7 (4)'=4) ('6-6.9 '+
    '(3)'=3) ('5.5-5.9 (1)'=1) ('3.5-5.4 (0)'=0) ('3-3.4 (1)'=1) ('2.5-2.9 (2)'=2) ('< 2.5 (4)'=4) INTO Kpoints.
VARIABLE LABELS  Kpoints 'APACHE II Potassium points'.
EXECUTE.
RECODE SerumCreatinine (CONVERT) ('missing (0)'=0) (MISSING=0) ('?3.5 (4)'=4) ('2-3.4 '+
    '(3)'=3) ('1.5-1.9 (2)'=2) ('0.6-1.4 (0)'=0) ('< 0.6-1.4 (2)'=2) INTO scrpoints.
VARIABLE LABELS  scrpoints 'APACHE II SCr points'.
EXECUTE.
DO IF  (WasthisSCrdrawnduringanepisodeofacutekidneyinjury='Yes').
RECODE SerumCreatinine ('?3.5 (4)'=8) ('2-3.4 (3)'=6) ('1.5-1.9 (2)'=4) INTO scrpoints.
END IF.
VARIABLE LABELS  scrpoints 'APACHE II points: serum creatinine'.
EXECUTE.
RECODE Hematocrit (CONVERT) ('missing (0)'=0) (MISSING=0) ('?60 (4)'=4) ('50-59.9 '+
    '(2)'=2) ('46-49.9 (1)'=1) ('30-45.9 (0)'=0) ('20-29.9 (2)'=2) ('< 20 (4)'=4) ('< 55 (4)'=4) INTO hctpoints.
VARIABLE LABELS  hctpoints 'APACHE II Hematocrit points'.
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EXECUTE.
RECODE WhiteBloodCount (CONVERT) ('missing (0)'=0) (MISSING=0) ('?40 (4)'=4) ('20-39.9 '+
   '(2)'=2) ('15-19.9 (1)'=1) ('3-14.9 (0)'=0) ('1-2.9 (2)'=2) ('< 1 (4)'=4) INTO wbcpoints.
VARIABLE LABELS  wbcpoints 'APACHE II Art_pH points'.
EXECUTE.

COMPUTE gcspoints=15-gcs_all.
VARIABLE LABELS gcspoints 'APACHE II points: glascow coma scale'.
EXECUTE.

RECODE SerumHCO3 (CONVERT) ('missing (0)'=0) (MISSING=0) ('?52 (4)'=4) ('41-51.9 '+
   '(3)'=3) ('32-40.9 (1)'=1) ('22-31.9 (0)'=0) ('18-21.9 (2)'=2) ('15-17.9 (3)'=3) ('< 15 (4)'=4) INTO hco3points.
VARIABLE LABELS  hco3points 'APACHE II HCO3 points'.
EXECUTE.
COMPUTE Chronichealthpoints=APACHEdefinedOrganSystemInsufficiencyorImmunoCompromisedStatecho =
   'Checked' | APACHEdefinedOrganSystemInsufficiencyorImmunoCompromisedStatec_A = 'Checked' |
   APACHEdefinedOrganSystemInsufficiencyorImmunoCompromisedStatec_B = 'Checked'  |
   APACHEdefinedOrganSystemInsufficiencyorImmunoCompromisedStatec_C = 'Checked' |
   APACHEdefinedOrganSystemInsufficiencyorImmunoCompromisedStatec_D = 'Checked'.
EXECUTE.
DO IF (TypeofAdmission='Nonoperative or emergency postoperative patient').
RECODE Chronichealthpoints (1=5).
END IF.
EXECUTE.
DO IF (TypeofAdmission='Elective postoperative patient').
RECODE Chronichealthpoints (1=2).
END IF.
EXECUTE.

RECODE temppoints (MISSING=0).
EXECUTE.
RECODE mappoints (MISSING=0).
EXECUTE.
RECODE hrpoints (MISSING=0).
EXECUTE.
RECODE rrpoints (MISSING=0).
EXECUTE.
RECODE oxpoints (MISSING=0).
EXECUTE.
RECODE aphpoints (MISSING=0).
EXECUTE.
RECODE napoints (MISSING=0).
EXECUTE.
RECODE Kpoints (MISSING=0).
EXECUTE.
RECODE scrpoints (MISSING=0).
EXECUTE.
RECODE hctpoints (MISSING=0).
EXECUTE.
RECODE wbcpoints (MISSING=0).
EXECUTE.
RECODE gcspoints (MISSING=0).
EXECUTE.
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RECODE hco3points (MISSING=0).
EXECUTE.

COMPUTE
apacheII=APACHE_agepoints+temppoints+mappoints+hrpoints+rrpoints+oxpoints+aphpoints+napoints+Kpoints+s
crpoints+hctpoints+wbcpoints+gcspoints+hco3points+Chronichealthpoints.
VARIABLE LABELS  apacheII 'APACHE II score: calculated from components'.
EXECUTE.

RECODE apacheII (SYSMIS=1) INTO apachemissing.
VARIABLE LABELS  apachemissing 'APACHE II score missing'.
EXECUTE.


AUTORECODE VARIABLES=MeanArterialPressure
  /INTO mappoints_1
  /PRINT.

RECODE mappoints_1 (8=0) (7=0) (2=4) (5=3)
    (4=2) (1=0) (6=2) (3=4) INTO mappoints_.
VARIABLE LABELS  mappoints_ 'APACHE II MAP points'.
EXECUTE.

RECODE PRE_9 (CONVERT) (8=0) (1=2) INTO testss.
EXECUTE.


*Days to death.
COMPUTE DaysAdmissiontoDeath=DATEDIFF(DateofDeath,DateofAdmissionHospital,"days").
EXECUTE.
COMPUTE Mortality30Day=DaysAdmissiontoDeath <= 30.
EXECUTE.
IF  (DidpatientExpire = 'No' | DaysAdmissiontoDeath > 30) Mortality30Day=0.
EXECUTE.

COMPUTE Mortality2Day=DaysAdmissiontoDeath <= 2.
EXECUTE.
IF  (DidpatientExpire = 'No' | DaysAdmissiontoDeath > 2) Mortality2Day=0.
EXECUTE.

RECODE GlasgowComaScore (CONVERT) ('missing (15)'=15) (MISSING=SYSMIS) ('1'=1) ('2'=2) ('3'=3)
    ('4'=4) ('5'=5) ('6'=6) ('7'=7) ('8'=8) ('9'=9) ('10'=10) ('11'=11) ('12'=12) ('13'=13)
    ('14'=14) ('15'=15) INTO gcs_all.
VARIABLE LABELS  gcs_all 'GCS - Analysis'.
EXECUTE.

COMPUTE gcs_15=gcs_all >= 15.
EXECUTE.
IF  (gcs_all < 15) gcs_15=0.
EXECUTE.

*Pt history to numeric.
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RECODE PATIENTHISTORYCONDITIONSchoiceDementiaonlycheckifpresentatbaseli (CONVERT) ('Checked'=1)
('Unchecked'=0) (MISSING=SYSMIS) INTO dementia_num.
VARIABLE LABELS  dementia_num 'Pt History: Dementia (numeric)'.
EXECUTE.

RECODE PATIENTHISTORYCONDITIONSchoiceModerateorseverereliverdiseaseportal (CONVERT) ('Checked'=1)
('Unchecked'=0) (MISSING=SYSMIS) INTO livermoderate_num.
VARIABLE LABELS  livermoderate_num 'Pt History: Liver Disease - Moderate-Severe (numeric)'.
EXECUTE.

RECODE PATIENTHISTORYCONDITIONSchoiceChronicdialysishemodialysisorperit (CONVERT) ('Checked'=1)
('Unchecked'=0) (MISSING=SYSMIS) INTO dialysis_num.
VARIABLE LABELS  dialysis_num 'Pt History: Chronic Dialysis (numeric)'.
EXECUTE.

RECODE WhattreatmentwasgivenforCOVID19choiceSystemicSteroids (CONVERT) ('Checked'=1) ('Unchecked'=0)
(MISSING=SYSMIS) INTO systemicsteroid_num.
VARIABLE LABELS  systemicsteroid_num 'COVID19 Treatment: Systemic Steroids (numeric)'.
EXECUTE.

*Coding days.
COMPUTE DischargetoReadmissionDays=DATEDIFF(Readmissiondate,HospitalDateofDischarge,"days").
EXECUTE.

COMPUTE LOS_total = DATEDIFF(HospitalDateofDischarge,DateofAdmissionHospital,
    "days") + 1.
IF (LOS_total = $SYSMIS) LOS_total = HospitalCalculatedLengthofStayDays.
IF (LOS_total = $SYSMIS) LOS_total = DATEDIFF(DateofDeath,DateofAdmissionHospital,
    "days").
VARIABLE LABELS  LOS_total 'Length of Stay'.
EXECUTE.

COMPUTE Comorbid_diabetes=PATIENTHISTORYCONDITIONSchoiceDiabeteswithoutendorgandamage = 'Checked'
|
    PATIENTHISTORYCONDITIONSchoiceDiabeteswithendorgandamageretinopa = 'Checked'.
EXECUTE.

COMPUTE DaysAdmissiontoBacterialInfection=DATEDIFF(INDICATEDATEBACTERIALINFECTION,
    DateofAdmissionHospital,"days").
EXECUTE.

RECODE DaysAdmissiontoBacterialInfection (MISSING=SYSMIS) (Lowest thru 2=1) (2.1 thru
    Highest=0) INTO DaystoBacterialInf_48.
VARIABLE LABELS  DaystoBacterialInf_48 'Days to Bacterial Infection - W/in 48 hours of Admission'.
EXECUTE.

COMPUTE DaystoCultureDrawn_min=MIN(DaysAdmissiontoBacterialInfection,DaysuntilCultureDrawn).
EXECUTE.

DATASET ACTIVATE DataSet2.
RECODE Contaminant (1=1) (0=SYSMIS) (ELSE=0) INTO Contaminant_all.
VARIABLE LABELS  Contaminant_all 'All COVID-19 cases w/o Positive blood cultures compared to '+
    'Contaminants'.
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EXECUTE.

RECODE Contaminant (MISSING=0) (0=1) (1=1) (ELSE=SYSMIS) INTO BSI.
VARIABLE LABELS  BSI 'Bloodstream Infections'.
EXECUTE.

RECODE Contaminant (MISSING=0) (1=SYSMIS) (0=1) (ELSE=SYSMIS) INTO BSI_true.
VARIABLE LABELS  BSI_true 'True Bloodstream Infections'.
EXECUTE.

COMPUTE Race_aa=Race = 'African American'.
VARIABLE LABELS  Race_aa 'Race: African-American'.
EXECUTE.

COMPUTE Race_ca=Race = 'Caucasian'.
VARIABLE LABELS  Race_ca 'Race: Caucasian'.
EXECUTE.

COMPUTE Race_MulOth=Race = 'Other' | Race = 'Multiple'.
VARIABLE LABELS  Race_MulOth 'Race: Multiple/Other'.
EXECUTE.

COMPUTE Race_unk=Race = 'Unknown'.
VARIABLE LABELS  Race_unk 'Race: Unknown'.
EXECUTE.

COMPUTE ReasonED_cough=ReasonforPresentingtoEDchoiceCough = 'Checked' |
ReasonforPresentingtoEDchoiceCough_A = 'Checked'.
VARIABLE LABELS  ReasonED_cough 'Reason presenting to ED - Cough - Full Results'.
EXECUTE.

COMPUTE ReasonED_sob=ReasonforPresentingtoEDchoiceShortnessofBreath = 'Checked' |
ReasonforPresentingtoEDchoiceShortnessofBreath_A = 'Checked'.
VARIABLE LABELS  ReasonED_sob 'Reason presenting to ED - SOB - Full Results'.
EXECUTE.

COMPUTE ReasonED_fever=ReasonforPresentingtoEDchoiceFeverTemp.gt38.0 = 'Checked' |
ReasonforPresentingtoEDchoiceFeverTemp.gt38.0_A = 'Checked'.
VARIABLE LABELS  ReasonED_fever 'Reason presenting to ED - Fever - Full Results'.
EXECUTE.

COMPUTE ReasonED_sore=ReasonforPresentingtoEDchoiceSorethroat = 'Checked' |
ReasonforPresentingtoEDchoiceSorethroat_A = 'Checked'.
VARIABLE LABELS  ReasonED_sore 'Reason presenting to ED - Sore Throat - Full Results'.
EXECUTE.

COMPUTE ReasonED_myal=ReasonforPresentingtoEDchoiceMyalgia = 'Checked' |
ReasonforPresentingtoEDchoiceMyalgia_A = 'Checked'.
VARIABLE LABELS  ReasonED_myal 'Reason presenting to ED - Myalgia - Full Results'.
EXECUTE.

COMPUTE ReasonED_abd=ReasonforPresentingtoEDchoiceAbdominalpain = 'Checked' |
ReasonforPresentingtoEDchoiceAbdominalpain_A = 'Checked'.
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VARIABLE LABELS  ReasonED_abd 'Reason presenting to ED - Abdominal Pain - Full Results'.
EXECUTE.

COMPUTE ReasonED_diar=ReasonforPresentingtoEDchoiceDiarrhea = 'Checked' |
ReasonforPresentingtoEDchoiceDiarrhea_A = 'Checked'.
VARIABLE LABELS  ReasonED_diar 'Reason presenting to ED - Diarrhea - Full Results'.
EXECUTE.

COMPUTE ReasonED_neuro=ReasonforPresentingtoEDchoiceNeurological = 'Checked' |
ReasonforPresentingtoEDchoiceNeurological_A = 'Checked'.
VARIABLE LABELS  ReasonED_neuro 'Reason presenting to ED - Neurological - Full Results'.
EXECUTE.

COMPUTE WBC_lowest =WhiteBloodCount = '1-2.9 (2)'.
VARIABLE LABELS  WBC_lowest 'WBC: 1-2.9'.
EXECUTE.

COMPUTE WBC_normal =WhiteBloodCount = '3-14.9 (0)'.
VARIABLE LABELS  WBC_normal 'WBC: 3-14.9'.
EXECUTE.

COMPUTE WBC_high =WhiteBloodCount = '15-19.9 (1)'.
VARIABLE LABELS  WBC_high 'WBC: 15-19.9'.
EXECUTE.

COMPUTE WBC_highest =WhiteBloodCount = '20-39.9 (2)'.
VARIABLE LABELS  WBC_highest 'WBC: 20-39.9'.
EXECUTE.

COMPUTE WBC_low15 = WBC_lowest=1 | WBC_normal=1.
VARIABLE LABELS  WBC_low15 'WBC: <15'.
EXECUTE.

COMPUTE WBC_high15 = WBC_high=1 | WBC_highest=1.
VARIABLE LABELS  WBC_high15 'WBC: ≥15'.
EXECUTE.

RECODE WhiteBloodCount ('3-14.9 (0)'=0) ('1-2.9 (2)'=0) ('15-19.9 (1)'=1) ('20-39.9 (2)'=1)
    (MISSING=SYSMIS) (ELSE=SYSMIS) INTO WBC_15.
VARIABLE LABELS  WBC_15 'WBC 15 Cutoff (<15,≥15)'.
EXECUTE.

RECODE WhiteBloodCount (CONVERT) ('1-2.9 (2)'=1) ('3-14.9 (0)'=2) ('15-19.9 (1)'=3) ('20-39.9 (2)'=4)
(MISSING=SYSMIS) ('missing (0)'=SYSMIS) (ELSE=0) INTO
    WhiteBloodCount_ordinal.
VARIABLE LABELS  WhiteBloodCount_ordinal 'White Blood Count - Ordinal'.
EXECUTE.

DATASET ACTIVATE DataSet2.
RECODE DOSEGlucocorticoidstotalmgperday (MISSING=0) (ELSE=Copy) INTO DOSEGlucocorticoid_mg_rec.
VARIABLE LABELS  DOSEGlucocorticoid_mg_rec 'Dose of Glucocorticoids in total mg of '+
    'Hydrocortisone per day'.
EXECUTE.
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COMPUTE pthistory_tumor=PATIENTHISTORYCONDITIONSchoiceTumorwithmetastasis = 'Checked' |
   PATIENTHISTORYCONDITIONSchoiceTumorwithoutmetastasisexcludeifgt5 = 'Checked'.
EXECUTE.

COMPUTE CefepimeName=CHAR.INDEX(UPCASE(AntibioticUsedName),"CEFEPIME") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"CEFEPIME")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"CEFEPIME") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"CEFEPIME") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"CEFEPIME") + CHAR.INDEX(UPCASE(CommentsABX),"CEFEPIME")
>0.
EXECUTE.

COMPUTE AmpicillinName=CHAR.INDEX(UPCASE(AntibioticUsedName),"AMPICILLIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"AMPICILLIN")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"AMPICILLIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"AMPICILLIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"AMPICILLIN") +
   CHAR.INDEX(UPCASE(AntibioticUsedName),"UNASYN") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"UNASYN")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"UNASYN") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"UNASYN") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"UNASYN") >0.
EXECUTE.

COMPUTE AmoxicillinName=CHAR.INDEX(UPCASE(AntibioticUsedName),"AMOXICILLIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"AMOXICILLIN")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"AMOXICILLIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"AMOXICILLIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"AMOXICILLIN") +
   CHAR.INDEX(UPCASE(CommentsABX),"AMOXICILLIN") >0.
EXECUTE.

COMPUTE AztreonamName=CHAR.INDEX(UPCASE(AntibioticUsedName),"AZTREONAM") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"AZTREONAM")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"AZTREONAM") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"AZTREONAM") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"AZTREONAM") +
   CHAR.INDEX(UPCASE(CommentsABX),"AZTREONAM") >0.
EXECUTE.

COMPUTE CefazolinName=CHAR.INDEX(UPCASE(AntibioticUsedName),"CEFAZOLIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"CEFAZOLIN")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"CEFAZOLIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"CEFAZOLIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"CEFAZOLIN") +
   CHAR.INDEX(UPCASE(CommentsABX),"CEFAZOLIN") >0.
EXECUTE.

COMPUTE CeftriaxoneName=CHAR.INDEX(UPCASE(AntibioticUsedName),"CEFTRIAXONE") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"CEFTRIAXONE")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"CEFTRIAXONE") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"CEFTRIAXONE") +
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   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"CEFTRIAXONE") +
   CHAR.INDEX(UPCASE(CommentsABX),"CEFTRIAXONE") >0.
EXECUTE.

COMPUTE CeftarolineName=CHAR.INDEX(UPCASE(AntibioticUsedName),"CEFTAROLINE") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"CEFTAROLINE")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"CEFTAROLINE") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"CEFTAROLINE") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"CEFTAROLINE") +
   CHAR.INDEX(UPCASE(CommentsABX),"CEFTAROLINE") >0.
EXECUTE.

COMPUTE ZerbaxaName=CHAR.INDEX(UPCASE(AntibioticUsedName),"ZERBAXA") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"ZERBAXA")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"ZERBAXA") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"ZERBAXA") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"ZERBAXA") +
   CHAR.INDEX(UPCASE(CommentsABX),"ZERBAXA") >0.
EXECUTE.

COMPUTE AzithromycinName=CHAR.INDEX(UPCASE(AntibioticUsedName),"AZITHROMYCIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"AZITHROMYCIN")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"AZITHROMYCIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"AZITHROMYCIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"AZITHROMYCIN") +
   CHAR.INDEX(UPCASE(CommentsABX),"AZITHROMYCIN") >0.
EXECUTE.

COMPUTE ErythromycinName=CHAR.INDEX(UPCASE(AntibioticUsedName),"ERYTHROMYCIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"ERYTHROMYCIN")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"ERYTHROMYCIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"ERYTHROMYCIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"ERYTHROMYCIN") +
   CHAR.INDEX(UPCASE(CommentsABX),"ERYTHROMYCIN") >0.
EXECUTE.

COMPUTE DoxycyclineName=CHAR.INDEX(UPCASE(AntibioticUsedName),"DOXYCYCLINE") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"DOXYCYCLINE")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"DOXYCYCLINE") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"DOXYCYCLINE") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"DOXYCYCLINE") +
   CHAR.INDEX(UPCASE(CommentsABX),"DOXYCYCLINE") >0.
EXECUTE.

COMPUTE TigecyclineName=CHAR.INDEX(UPCASE(AntibioticUsedName),"TIGECYCLINE") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"TIGECYCLINE")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"TIGECYCLINE") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"TIGECYCLINE") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"TIGECYCLINE") +
   CHAR.INDEX(UPCASE(CommentsABX),"TIGECYCLINE") >0.
EXECUTE.

COMPUTE TetracyclineName=CHAR.INDEX(UPCASE(AntibioticUsedName),"TETRACYCLINE") +
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   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"TETRACYCLINE")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"TETRACYCLINE") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"TETRACYCLINE") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"TETRACYCLINE") +
   CHAR.INDEX(UPCASE(CommentsABX),"TETRACYCLINE") >0.
EXECUTE.

COMPUTE MoxifloxacinName=CHAR.INDEX(UPCASE(AntibioticUsedName),"MOXIFLOXACIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"MOXIFLOXACIN")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"MOXIFLOXACIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"MOXIFLOXACIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"MOXIFLOXACIN") +
   CHAR.INDEX(UPCASE(CommentsABX),"MOXIFLOXACIN") >0.
EXECUTE.

COMPUTE LevofloxacinName=CHAR.INDEX(UPCASE(AntibioticUsedName),"LEVOFLOXACIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"LEVOFLOXACIN")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"LEVOFLOXACIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"LEVOFLOXACIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"LEVOFLOXACIN") +
   CHAR.INDEX(UPCASE(CommentsABX),"LEVOFLOXACIN") >0.
EXECUTE.

COMPUTE CiprofloxacinName=CHAR.INDEX(UPCASE(AntibioticUsedName),"CIPROFLOXACIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"CIPROFLOXACIN")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"CIPROFLOXACIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"CIPROFLOXACIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"CIPROFLOXACIN") +
   CHAR.INDEX(UPCASE(CommentsABX),"CIPROFLOXACIN") >0.
EXECUTE.

COMPUTE MetronidazoleName=CHAR.INDEX(UPCASE(AntibioticUsedName),"METRONIDAZOLE") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"METRONIDAZOLE")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"METRONIDAZOLE") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"METRONIDAZOLE") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"METRONIDAZOLE") +
   CHAR.INDEX(UPCASE(CommentsABX),"METRONIDAZOLE") >0.
EXECUTE.

COMPUTE MeropenemName=CHAR.INDEX(UPCASE(AntibioticUsedName),"MEROPENEM") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"MEROPENEM")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"MEROPENEM") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"MEROPENEM") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"MEROPENEM") +
   CHAR.INDEX(UPCASE(CommentsABX),"MEROPENEM") >0.
EXECUTE.

COMPUTE ErtapenemName=CHAR.INDEX(UPCASE(AntibioticUsedName),"ERTAPENEM") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"ERTAPENEM")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"ERTAPENEM") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"ERTAPENEM") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"ERTAPENEM") +
   CHAR.INDEX(UPCASE(CommentsABX),"ERTAPENEM") >0.
```

```
EXECUTE.

COMPUTE ImipenemName=CHAR.INDEX(UPCASE(AntibioticUsedName),"IMIPENEM") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"IMIPENEM")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"IMIPENEM") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"IMIPENEM") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"IMIPENEM") +
   CHAR.INDEX(UPCASE(CommentsABX),"IMIPENEM") >0.
EXECUTE.

COMPUTE TobramycinName=CHAR.INDEX(UPCASE(AntibioticUsedName),"TOBRAMYCIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"TOBRAMYCIN")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"TOBRAMYCIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"TOBRAMYCIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"TOBRAMYCIN") +
   CHAR.INDEX(UPCASE(CommentsABX),"TOBRAMYCIN") >0.
EXECUTE.

COMPUTE FluconazoleName=CHAR.INDEX(UPCASE(AntibioticUsedName),"FLUCONAZOLE") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"FLUCONAZOLE")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"FLUCONAZOLE") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"FLUCONAZOLE") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"FLUCONAZOLE") +
   CHAR.INDEX(UPCASE(CommentsABX),"FLUCONAZOLE") >0.
EXECUTE.

COMPUTE MicafunginName=CHAR.INDEX(UPCASE(AntibioticUsedName),"MICAFUNGIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"MICAFUNGIN")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"MICAFUNGIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"MICAFUNGIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"MICAFUNGIN") +
   CHAR.INDEX(UPCASE(CommentsABX),"MICAFUNGIN") >0.
EXECUTE.

COMPUTE LinezolidName=CHAR.INDEX(UPCASE(AntibioticUsedName),"LINEZOLID") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"LINEZOLID")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"LINEZOLID") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"LINEZOLID") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"LINEZOLID") +
   CHAR.INDEX(UPCASE(CommentsABX),"LINEZOLID") >0.
EXECUTE.

COMPUTE DaptomycinName=CHAR.INDEX(UPCASE(AntibioticUsedName),"DAPTOMYCIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"DAPTOMYCIN")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"DAPTOMYCIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"DAPTOMYCIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"DAPTOMYCIN") +
   CHAR.INDEX(UPCASE(CommentsABX),"DAPTOMYCIN") >0.
EXECUTE.

COMPUTE VancomycinName=CHAR.INDEX(UPCASE(AntibioticUsedName),"VANCOMYCIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed2Name),"VANCOMYCIN")
   +CHAR.INDEX(UPCASE(AntibioticUsed3Name),"VANCOMYCIN") +
```

```
   CHAR.INDEX(UPCASE(AntibioticUsed4Name),"VANCOMYCIN") +
   CHAR.INDEX(UPCASE(AntibioticUsed5Name),"VANCOMYCIN") +
   CHAR.INDEX(UPCASE(CommentsABX),"VANCOMYCIN") >0.
EXECUTE.

COMPUTE BetaLactam_name=AmpicillinName +AmoxicillinName + AztreonamName + CefazolinName +
   CeftriaxoneName + CefepimeName + CeftarolineName + ZerbaxaName + MeropenemName +
   ErtapenemName + ImipenemName >0.
EXECUTE.

COMPUTE Penicillins_name=AmpicillinName +AmoxicillinName >0.
EXECUTE.

COMPUTE LowerCephalosporin_name=CefazolinName >0.
EXECUTE.

COMPUTE ThirdCeph_name= CeftriaxoneName >0.
EXECUTE.

COMPUTE FourthCeph_name=CefepimeName >0.
EXECUTE.

COMPUTE Ceftaro_name=CeftarolineName >0.
EXECUTE.

COMPUTE Carbapenems_name=ErtapenemName + ImipenemName + MeropenemName >0.
EXECUTE.

COMPUTE AntiMRSA_name=CeftarolineName + LinezolidName + VancomycinName + DaptomycinName >0.
EXECUTE.

COMPUTE OtherAntiMRSA_name=CeftarolineName + LinezolidName + DaptomycinName >0.
EXECUTE.

COMPUTE Macrolide_name=AzithromycinName +ErythromycinName >0.
EXECUTE.

COMPUTE Tetra_name=DoxycyclineName + TigecyclineName + TetracyclineName >0.
EXECUTE.

COMPUTE Fluoro_name=LevofloxacinName + CiprofloxacinName + MoxifloxacinName >0.
EXECUTE.

COMPUTE Antifungal_name=FluconazoleName +MicafunginName >0.
EXECUTE.

COMPUTE AntibioticUsed3Duration = DATEDIFF(AntibioticUsed3DateEnd_date,AntibioticUsed3DateStart_date,
   "hours").
IF (AntibioticUsed3Duration = 0) AntibioticUsed3Duration = 8.
EXECUTE.

COMPUTE AntibioticUsed4Duration = DATEDIFF(AntibioticUsed4DateEnd_date,AntibioticUsed4DateStart_date,
   "hours").
```

```
IF (AntibioticUsed4Duration = 0) AntibioticUsed4Duration = 8.
EXECUTE.

COMPUTE AntibioticUsed5Duration = DATEDIFF(AntibioticUsed5DateEnd_date,AntibioticUsed5DateStart_date,
    "hours").
IF (AntibioticUsed5Duration = 0) AntibioticUsed5Duration = 8.
EXECUTE.

*Total Days of Therapy for Antibiotics = .
RECODE AntibioticUsedDuration (MISSING=0).
EXECUTE.
RECODE AntibioticUsed2Duration (MISSING=0).
EXECUTE.
RECODE AntibioticUsed3Duration (MISSING=0).
EXECUTE.
RECODE AntibioticUsed4Duration (MISSING=0).
EXECUTE.
RECODE AntibioticUsed5Duration (MISSING=0).
EXECUTE.

COMPUTE AntibioticUsedTotal_hours = AntibioticUsedDuration + AntibioticUsed2Duration +
    AntibioticUsed3Duration + AntibioticUsed4Duration + AntibioticUsed5Duration.
VARIABLE LABELS  AntibioticUsedTotal_hours 'Total Hours of Antimicrobials Used'.
EXECUTE.
COMPUTE AntibioticUsedTotal = RND(AntibioticUsedTotal_hours/24).
VARIABLE LABELS  AntibioticUsedTotal 'Total DOT of Antimicrobials Used'.
EXECUTE.

COMPUTE AntibioticUsedTotal_STD_LOS = (AntibioticUsedTotal / LOS_total) * 1000.
VARIABLE LABELS  AntibioticUsedTotal_STD_LOS 'Total DOT of Antimicrobials Used per 1000 Pt-Days'.
EXECUTE.

*Total Antimicrobials Used = .
COUNT AntimicrobialsTotal_raw= AntibioticUsedName AntibioticUsed2Name
    AntibioticUsed3Name AntibioticUsed4Name AntibioticUsed5Name (' ').
EXECUTE.
COMPUTE AntimicrobialsTotal_amountnocombo = 5 - AntimicrobialsTotal_raw.
EXECUTE.
COMPUTE AntimicrobialsTotal_amount = AntimicrobialsTotal_amountnocombo + AntimicrobialsTotal_add.
VARIABLE LABELS  AntimicrobialsTotal_amount 'Total # of Antimicrobials Used'.
EXECUTE.

COMPUTE AntibioticUsed_DOTperAbx = AntibioticUsedTotal / AntimicrobialsTotal_amount.
VARIABLE LABELS AntibioticUsed_DOTperAbx 'Total DOT per Antimicrobials Used'.
EXECUTE.
RECODE AntibioticUsed_DOTperAbx (0=0) (MISSING=0) INTO AntibioticUsed_DOTperAbx.
EXECUTE.

RECODE AntimicrobialsTotal_amount (0=0) (MISSING=SYSMIS) (1 thru Highest=1) INTO AntibioticUsed_any.
VARIABLE LABELS  AntibioticUsed_any 'Any Antibiotic Used'.
EXECUTE.

CROSSTABS
```

```
  /TABLES=Mortality30Day AnyPressorSupport CoNS Waspatientreadmittedforanyreasonwithin30days
    BY True_Bacteremia
  /FORMAT=AVALUE TABLES
  /STATISTICS=CHISQ PHI
  /CELLS=COUNT ROW COLUMN TOTAL PROP
  /COUNT ROUND CELL
  /BARCHART.

NPTESTS
  /INDEPENDENT TEST (HospitalCalculatedLengthofStayDays) GROUP (True_Bacteremia)
  /MISSING SCOPE=ANALYSIS USERMISSING=EXCLUDE
  /CRITERIA ALPHA=0.05  CILEVEL=95.


USE ALL.
COMPUTE filter_$=(External = 'No').
VARIABLE LABELS filter_$ "External = 'No' (FILTER)".
VALUE LABELS filter_$ 0 'Not Selected' 1 'Selected'.
FORMATS filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE.

USE ALL.
COMPUTE filter_$=(External = 'No'  & Date_Mar8toApr4 = 1).
VARIABLE LABELS filter_$ "External = 'No'  & Date_Mar8toApr4 = 1 (FILTER)".
VALUE LABELS filter_$ 0 'Not Selected' 1 'Selected'.
FORMATS filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE.

USE ALL.
COMPUTE filter_$$=(External = 'No'  & Date_Mar8toApr4 = 1 & True_Bacteremia = 1 | True_Bacteremia = 0).
VARIABLE LABELS filter_$$ "External = 'No'  & Date_Mar8toApr4 = 1 (FILTER)".
VALUE LABELS filter_$$ 0 'Not Selected' 1 'Selected'.
FORMATS filter_$$ (f1.0).
FILTER BY filter_$$.
EXECUTE.

SORT CASES  BY BSI_true_all.
SPLIT FILE LAYERED BY BSI_true_all.

FREQUENCIES VARIABLES=Date_Mar8toApr4 Ageyrs Gender Race Ethnicity Weight BMI apacheII
CharlsoncomorbidityindexUseMDCALC
PATIENTHISTORYCONDITIONSchoiceMyocardialinfarction PATIENTHISTORYCONDITIONSchoiceHeartfailure
PATIENTHISTORYCONDITIONSchoiceChronicobstructivepulmonarydisease
PATIENTHISTORYCONDITIONSchoiceAsthma
PATIENTHISTORYCONDITIONSchoiceDiabeteswithoutendorgandamage
PATIENTHISTORYCONDITIONSchoiceDiabeteswithendorgandamageretinopa
Comorbid_diabetes ImmunosuppressionchoiceNeutropeniaANCorWBClt500 ImmunosuppressionchoiceNone
PATIENTHISTORYCONDITIONSchoiceAIDSCD4countlt200 PATIENTHISTORYCONDITIONSchoiceHIV
PATIENTHISTORYCONDITIONSchoiceIVdruguse PATIENTHISTORYCONDITIONSchoiceObesityBMIgt30
WhiteBloodCount WhiteBloodCount_ordinal ReasonforPresentingtoEDchoiceFeverTemp.gt38.0
ReasonforPresentingtoEDchoiceMyalgia_A
```

Supplemental Material

```
CrCL PATIENTRECEIVEDMECHANICALVENTILATION BACTERIALCOINFECTION BACTERIALINFECTIONLOCATION
DaysAdmissiontoBacterialInfection DaysuntilCultureDrawn DaystoCultureDrawn_min
INDICATETYPEBACTERIALPATHOGENCOINFECTION TREATMENTGROUPANTIVIRALSchoiceRemdesivirGS5734
TREATMENTGROUPANTIVIRALSchoiceHydroxychloroquine
TREATMENTGROUPImmunomodulatoryagentschoiceGlucocorticoids TREATMENTGROUPANTIVIRALSchoiceNONE
TREATMENTGROUPImmunomodulatoryagentschoiceTocilizumabActemra
TREATMENTGROUPImmunomodulatoryagentschoiceIL1agents
TREATMENTGROUPImmunomodulatoryagentschoiceIL6agentsotherthantoci
IndicateGlucocorticoidschoicemethylprednisolone IndicateGlucocorticoidschoicehydrocortisone
IndicateGlucocorticoidschoiceother TypeofAdmission WaspatientadmittedtoICUafterCOVIDdiagnosis
RECURRENCE READMISSION Complete State HOSPITALAFFILIATION Hospital SymptomsofCOVIDchoiceNone
SymptomsofCOVIDchoiceCough
SymptomsofCOVIDchoiceShortnessofBreath SymptomsofCOVIDchoiceFeverTemp.gt38.0
HospitalCalculatedLengthofStayDays ICULOSDays
HospitalDischargeDisposition DaysofsteroidtherapyforCOVID19 DidpatientExpire Mortality30Day
DaysAdmissiontoDeath Mortality2Day
Waspatientreadmittedforanyreasonwithin30days EDLoSCalculated
  /NTILES=4
  /STATISTICS=STDDEV MEAN MEDIAN SKEWNESS SESKEW
  /ORDER=ANALYSIS.

SPLIT FILE OFF.

CROSSTABS
  /TABLES=Mortality30Day Readmission30Day Neutropenia_A
WhattreatmentwasgivenforCOVID19choiceSystemicSteroids BY BSI_true_all
  /FORMAT=AVALUE TABLES
  /STATISTICS=CHISQ PHI CORR
  /CELLS=COUNT EXPECTED ROW COLUMN TOTAL PROP
  /COUNT ROUND CELL.

CROSSTABS
  /TABLES=Race_aa Race_ca Race_MulOth Race_unk Gender BMIOver30
PATIENTHISTORYCONDITIONSchoiceMyocardialinfarction
    PATIENTHISTORYCONDITIONSchoiceHeartfailure pthistory_tumor
PATIENTHISTORYCONDITIONSchoiceDementiaonlycheckifpresentatbaseli
    PATIENTHISTORYCONDITIONSchoiceChronicobstructivepulmonarydisease
    PATIENTHISTORYCONDITIONSchoiceAsthma
PATIENTHISTORYCONDITIONSchoiceDementiaonlycheckifpresentatbaseli Comorbid_diabetes
    PATIENTHISTORYCONDITIONSchoiceDiabeteswithoutendorgandamage
    PATIENTHISTORYCONDITIONSchoiceDiabeteswithendorgandamageretinopa
    PATIENTHISTORYCONDITIONSchoiceAIDSCD4countlt200 PATIENTHISTORYCONDITIONSchoiceHIV
    PATIENTHISTORYCONDITIONSchoiceIVdruguse
    PATIENTHISTORYCONDITIONSchoicePriorsurgeryin30daysprecedingencou Priorhospitlizationinpast30days
    PATIENTHISTORYCONDITIONSchoicePriorhospitalization48hoursin90day
    PATIENTHISTORYCONDITIONSchoicePriorinfectionin365daysprecedingen
    PATIENTHISTORYCONDITIONSchoicePriorhospitalizationwithinthepasty
    PATIENTHISTORYCONDITIONSchoicePriorantimicrobials48hourswithinth
    PATIENTHISTORYCONDITIONSchoiceObesityBMIgt30 PATIENTHISTORYCONDITIONSchoiceNone
    PATIENTRECEIVEDMECHANICALVENTILATION BACTERIALCOINFECTION
    TREATMENTGROUPANTIVIRALSchoiceLopinavirritonavir
TREATMENTGROUPANTIVIRALSchoiceRemdesivirGS5734
    TREATMENTGROUPANTIVIRALSchoiceChloroquine TREATMENTGROUPANTIVIRALSchoiceHydroxychloroquine
```

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  TREATMENTGROUPImmunomodulatoryagentschoiceTocilizumabActemra
  TREATMENTGROUPImmunomodulatoryagentschoiceGlucocorticoids
  WhattreatmentwasgivenforCOVID19choiceSystemicSteroids
  TREATMENTGROUPImmunomodulatoryagentschoiceIL1agents
  TREATMENTGROUPImmunomodulatoryagentschoiceIL6agentsotherthantoci
  APACHEdefinedOrganSystemInsufficiencyorImmunoCompromisedStatec_D
  WaspatientadmittedtoICUafterCOVIDdiagnosis RECURRENCE READMISSION
  ReasonED_cough ReasonED_sob ReasonED_fever ReasonED_sore ReasonED_myal ReasonED_abd
ReasonED_diar ReasonED_neuro
  SymptomsofCOVIDchoiceNone SymptomsofCOVIDchoiceCough
  SymptomsofCOVIDchoiceShortnessofBreath SymptomsofCOVIDchoiceFeverTemp.gt38.0
  SymptomsofCOVIDchoiceSorethroat SymptomsofCOVIDchoiceMyalgia SymptomsofCOVIDchoiceHeadache
  SymptomsofCOVIDchoiceNausea SymptomsofCOVIDchoiceVomiting SymptomsofCOVIDchoiceAbdominalpain
  SymptomsofCOVIDchoiceDiarrhea SymptomsofCOVIDchoiceChestPain SymptomsofCOVIDchoiceNeurological
  SymptomsofCOVIDchoiceAnosmia SymptomsofCOVIDchoiceGeneralizedWeakness
  Fevertemperaturelt36.0degreesonadmission WBC_lowest WBC_normal WBC_high WBC_highest
WasthepatientadmittedtotheICU
  DidpatientExpire Waspatientreadmittedforanyreasonwithin30days
  WhattreatmentwasgivenforCOVID19choiceSystemicSteroids
  WhattreatmentwasgivenforCOVID19choiceNone WhattreatmentwasgivenforCOVID19choiceHydroxychloroquine
  WhattreatmentwasgivenforCOVID19choiceTocilzumab WhattreatmentwasgivenforCOVID19choiceRemdesivir
  AnyPressorSupport Mortality30Day Mortality2Day Readmission30Day
    BY BSI_true_all
 /FORMAT=AVALUE TABLES
 /STATISTICS=CHISQ PHI CORR
 /CELLS=COUNT EXPECTED ROW COLUMN TOTAL PROP
 /COUNT ROUND CELL.

SORT CASES  BY Contaminant_all.
SPLIT FILE LAYERED BY Contaminant_all.

FREQUENCIES VARIABLES=Date_Mar8toApr4 Ageyrs Gender Race Ethnicity Weight BMI apacheII
CharlsoncomorbidityindexUseMDCALC
PATIENTHISTORYCONDITIONSchoiceMyocardialinfarction PATIENTHISTORYCONDITIONSchoiceHeartfailure
PATIENTHISTORYCONDITIONSchoiceChronicobstructivepulmonarydisease
PATIENTHISTORYCONDITIONSchoiceAsthma
PATIENTHISTORYCONDITIONSchoiceDiabeteswithoutendorgandamage
PATIENTHISTORYCONDITIONSchoiceDiabeteswithendorgandamageretinopa
Comorbid_diabetes ImmunosuppressionchoiceNeutropeniaANCorWBClt500 ImmunosuppressionchoiceNone
PATIENTHISTORYCONDITIONSchoiceAIDSCD4countlt200 PATIENTHISTORYCONDITIONSchoiceHIV
PATIENTHISTORYCONDITIONSchoiceIVdruguse PATIENTHISTORYCONDITIONSchoiceObesityBMIgt30
WhiteBloodCount WhiteBloodCount_ordinal ReasonforPresentingtoEDchoiceFeverTemp.gt38.0
ReasonforPresentingtoEDchoiceMyalgia_A
CrCL PATIENTRECEIVEDMECHANICALVENTILATION BACTERIALCOINFECTION BACTERIALINFECTIONLOCATION
DaysAdmissiontoBacterialInfection
INDICATETYPEBACTERIALPATHOGENCOINFECTION TREATMENTGROUPANTIVIRALSchoiceRemdesivirGS5734
TREATMENTGROUPANTIVIRALSchoiceHydroxychloroquine
TREATMENTGROUPImmunomodulatoryagentschoiceGlucocorticoids TREATMENTGROUPANTIVIRALSchoiceNONE
TREATMENTGROUPImmunomodulatoryagentschoiceTocilizumabActemra
TREATMENTGROUPImmunomodulatoryagentschoiceIL1agents
TREATMENTGROUPImmunomodulatoryagentschoiceIL6agentsotherthantoci
IndicateGlucocorticoidschoicemethylprednisolone IndicateGlucocorticoidschoicehydrocortisone
IndicateGlucocorticoidschoiceother TypeofAdmission WaspatientadmittedtoICUafterCOVIDdiagnosis
```

Supplemental Material

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RECURRENCE READMISSION Complete State HOSPITALAFFILIATION Hospital SymptomsofCOVIDchoiceNone
SymptomsofCOVIDchoiceCough
SymptomsofCOVIDchoiceShortnessofBreath SymptomsofCOVIDchoiceFeverTemp.gt38.0
HospitalCalculatedLengthofStayDays ICULOSDays
HospitalDischargeDisposition LOS_total DaysofsteroidtherapyforCOVID19 DidpatientExpire Mortality30Day
Waspatientreadmittedforanyreasonwithin30days EDLoSCalculated
  /NTILES=4
  /STATISTICS=STDDEV MEAN MEDIAN SKEWNESS SESKEW
  /ORDER=ANALYSIS.

SPLIT FILE OFF.

CROSSTABS
  /TABLES=Race_aa Race_ca Race_MulOth Race_unk Gender BMIOver30
PATIENTHISTORYCONDITIONSchoiceMyocardialinfarction
    PATIENTHISTORYCONDITIONSchoiceHeartfailure
    PATIENTHISTORYCONDITIONSchoiceDementiaonlycheckifpresentatbaseli
    PATIENTHISTORYCONDITIONSchoiceChronicobstructivepulmonarydisease
    PATIENTHISTORYCONDITIONSchoiceAsthma Comorbid_diabetes
    PATIENTHISTORYCONDITIONSchoiceDiabeteswithoutendorgandamage
    PATIENTHISTORYCONDITIONSchoiceDiabeteswithendorgandamageretinopa
    PATIENTHISTORYCONDITIONSchoiceAIDSCD4countlt200 PATIENTHISTORYCONDITIONSchoiceHIV
    PATIENTHISTORYCONDITIONSchoiceIVdruguse
    PATIENTHISTORYCONDITIONSchoicePriorsurgeryin30daysprecedingencou
    PATIENTHISTORYCONDITIONSchoicePriorhospitalization48hoursin90day
    PATIENTHISTORYCONDITIONSchoicePriorinfectionin365daysprecedingen
    PATIENTHISTORYCONDITIONSchoicePriorhospitalizationwithinthepasty
    PATIENTHISTORYCONDITIONSchoicePriorantimicrobials48hourswithinth
    PATIENTHISTORYCONDITIONSchoiceObesityBMIgt30 PATIENTHISTORYCONDITIONSchoiceNone
    PATIENTRECEIVEDMECHANICALVENTILATION BACTERIALCOINFECTION
    TREATMENTGROUPANTIVIRALSchoiceLopinavirritonavir
TREATMENTGROUPANTIVIRALSchoiceRemdesivirGS5734
    TREATMENTGROUPANTIVIRALSchoiceChloroquine TREATMENTGROUPANTIVIRALSchoiceHydroxychloroquine
    TREATMENTGROUPImmunomodulatoryagentschoiceTocilizumabActemra
    TREATMENTGROUPImmunomodulatoryagentschoiceGlucocorticoids
    TREATMENTGROUPImmunomodulatoryagentschoiceIL1agents
    TREATMENTGROUPImmunomodulatoryagentschoiceIL6agentsotherthantoci
    APACHEdefinedOrganSystemInsufficiencyorImmunoCompromisedStatec_D
    WaspatientadmittedtoICUafterCOVIDdiagnosis RECURRENCE READMISSION
    ReasonED_cough ReasonED_sob ReasonED_fever ReasonED_sore ReasonED_myal ReasonED_abd
ReasonED_diar ReasonED_neuro
    SymptomsofCOVIDchoiceNone SymptomsofCOVIDchoiceCough
    SymptomsofCOVIDchoiceShortnessofBreath SymptomsofCOVIDchoiceFeverTemp.gt38.0
    SymptomsofCOVIDchoiceSorethroat SymptomsofCOVIDchoiceMyalgia SymptomsofCOVIDchoiceHeadache
    SymptomsofCOVIDchoiceNausea SymptomsofCOVIDchoiceVomiting SymptomsofCOVIDchoiceAbdominalpain
    SymptomsofCOVIDchoiceDiarrhea SymptomsofCOVIDchoiceChestPain SymptomsofCOVIDchoiceNeurological
    SymptomsofCOVIDchoiceAnosmia SymptomsofCOVIDchoiceGeneralizedWeakness
    Fevertemperaturegt38.0degreesonadmission WBC_lowest WBC_normal WBC_high WBC_highest
WasthepatientadmittedtotheICU
    DidpatientExpire Waspatientreadmittedforanyreasonwithin30days
    WhattreatmentwasgivenforCOVID19choiceNone WhattreatmentwasgivenforCOVID19choiceHydroxychloroquine
    WhattreatmentwasgivenforCOVID19choiceTocilzumab WhattreatmentwasgivenforCOVID19choiceRemdesivir
    WhattreatmentwasgivenforCOVID19choiceIvermectin AnyPressorSupport Mortality30Day Readmission30Day
```

```
    BY Contaminant_all
  /FORMAT=AVALUE TABLES
  /STATISTICS=CHISQ PHI CORR
  /CELLS=COUNT EXPECTED ROW COLUMN TOTAL PROP
  /COUNT ROUND CELL.

*Median =  HospitalCalculatedLengthofStayDays, BMI, DaysAdmissiontoBacterialInfection,
WBCKCCUMcloseronadmission_A.

DATASET ACTIVATE DataSet1.
T-TEST GROUPS=BSI(0 1)
  /MISSING=ANALYSIS
  /VARIABLES=Ageyrs apacheII CharlsoncomorbidityindexUseMDCALC WBCKCCUMcloseronadmission_A
DaysAdmissiontoDeath gcs_all
  /ES DISPLAY(TRUE)
  /CRITERIA=CI(.95).

T-TEST GROUPS=BSI_true_all(0 1)
  /MISSING=ANALYSIS
  /VARIABLES=Ageyrs apacheII CharlsoncomorbidityindexUseMDCALC WBCKCCUMcloseronadmission_A
DaysAdmissiontoDeath gcs_all
  /ES DISPLAY(TRUE)
  /CRITERIA=CI(.95).

*Nonparametric Tests: Independent Samples.
NPTESTS
  /INDEPENDENT TEST (BMI HospitalCalculatedLengthofStayDays DaysAdmissiontoBacterialInfection
    WBCKCCUMcloseronadmission) GROUP (BSI_true_all) MANN_WHITNEY MEDIAN(TESTVALUE=SAMPLE
COMPARE=PAIRWISE)
  /MISSING SCOPE=ANALYSIS USERMISSING=EXCLUDE
  /CRITERIA ALPHA=0.05  CILEVEL=95.

SORT CASES  BY True_Bacteremia.
SPLIT FILE LAYERED BY True_Bacteremia.

FREQUENCIES VARIABLES=DaysAdmissiontoBacterialInfection CoNS StaphAureus Enterococcus Enterobacterales
Pseudomonadales Candida
    ReasonED_cough ReasonED_sob ReasonED_fever ReasonED_sore ReasonED_myal ReasonED_abd
ReasonED_diar ReasonED_neuro
    SymptomsofCOVIDchoiceNone SymptomsofCOVIDchoiceCough
    SymptomsofCOVIDchoiceShortnessofBreath SymptomsofCOVIDchoiceFeverTemp.gt38.0
    SymptomsofCOVIDchoiceSorethroat SymptomsofCOVIDchoiceMyalgia SymptomsofCOVIDchoiceHeadache
    SymptomsofCOVIDchoiceNausea SymptomsofCOVIDchoiceVomiting SymptomsofCOVIDchoiceAbdominalpain
    SymptomsofCOVIDchoiceDiarrhea SymptomsofCOVIDchoiceChestPain SymptomsofCOVIDchoiceNeurological
    SymptomsofCOVIDchoiceAnosmia SymptomsofCOVIDchoiceGeneralizedWeakness
    RECURRENCE READMISSION Complete State HOSPITALAFFILIATION Hospital SymptomsofCOVIDchoiceNone
SymptomsofCOVIDchoiceCough
    SymptomsofCOVIDchoiceShortnessofBreath SymptomsofCOVIDchoiceFeverTemp.gt38.0
HospitalCalculatedLengthofStayDays
    HospitalDischargeDisposition DidpatientExpire Mortality30Day
    Waspatientreadmittedforanyreasonwithin30days BetaLactam_name Penicillins_name CefazolinName
ThirdCeph_name FourthCeph_name
```

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   Carbapenems_name AntiMRSA_name VancomycinName OtherAntiMRSA_name Macrolide_name Tetra_name
Fluoro_name Antifungal_name
   AntibioticUsed_any AntimicrobialsTotal_amount AntibioticUsedTotal AntibioticUsed_DOTperAbx
AntibioticUsedTotal_STD_LOS
   /NTILES=4
   /STATISTICS=STDDEV MEAN MEDIAN SKEWNESS SESKEW
   /ORDER=ANALYSIS.

CROSSTABS
   /TABLES=DidpatientExpire Mortality30Day Readmission30Day Waspatientreadmittedforanyreasonwithin30days
   CoNS StaphAureus Enterococcus Enterobacterales Pseudomonadales Candida
   WBC_lowest WBC_normal WBC_high WBC_highest
   ReasonED_fever SymptomsofCOVIDchoiceFeverTemp.gt38.0 ReasonED_neuro
SymptomsofCOVIDchoiceNeurological AntibioticUsed_any AntimicrobialsTotal_amount
   BetaLactam_name Penicillins_name CefazolinName ThirdCeph_name FourthCeph_name
   Carbapenems_name AntiMRSA_name VancomycinName OtherAntiMRSA_name Macrolide_name
   Tetra_name Fluoro_name Antifungal_name BY BSI_true_all
   /FORMAT=AVALUE TABLES
   /STATISTICS=CHISQ PHI CORR
   /CELLS=COUNT EXPECTED ROW COLUMN TOTAL PROP
   /COUNT ROUND CELL.

NPTESTS
  /INDEPENDENT TEST (BMI HospitalCalculatedLengthofStayDays DaysAdmissiontoBacterialInfection
   DaystoCultureDrawn_min
   AntibioticUsedTotal AntibioticUsed_DOTperAbx AntibioticUsedTotal_STD_LOS) GROUP (True_Bacteremia)
MANN_WHITNEY MEDIAN(TESTVALUE=SAMPLE COMPARE=PAIRWISE)
  /MISSING SCOPE=ANALYSIS USERMISSING=EXCLUDE
  /CRITERIA ALPHA=0.05  CILEVEL=95.

FREQUENCIES VARIABLES=External Date_Mar8toApr4
  /NTILES=4
  /STATISTICS=STDDEV MEAN MEDIAN SKEWNESS SESKEW
  /ORDER=ANALYSIS.

NPAR TESTS
  /M-W= DaystoCultureDrawn_min BY True_Bacteremia(0 1)
  /STATISTICS=DESCRIPTIVES
  /MISSING ANALYSIS.

T-TEST GROUPS=BSI(0 1)
  /MISSING=ANALYSIS
  /VARIABLES=WhiteBloodCount_ordinal
  /ES DISPLAY(TRUE)
  /CRITERIA=CI(.95).

NPTESTS
  /INDEPENDENT TEST (BMI HospitalCalculatedLengthofStayDays DaysAdmissiontoBacterialInfection
   WBCKCCUMcloseronadmission) GROUP (BSI_true_all) MANN_WHITNEY MEDIAN(TESTVALUE=SAMPLE
COMPARE=PAIRWISE)
  /MISSING SCOPE=ANALYSIS USERMISSING=EXCLUDE
  /CRITERIA ALPHA=0.05  CILEVEL=95.
```

Supplemental Material

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T-TEST GROUPS=Contaminant_all(0 1)
  /MISSING=ANALYSIS
  /VARIABLES=WhiteBloodCount_ordinal LOS_total
  /ES DISPLAY(TRUE)
  /CRITERIA=CI(.95).

NPTESTS
  /INDEPENDENT TEST (BMI HospitalCalculatedLengthofStayDays LOS_total DaysAdmissiontoBacterialInfection
WhiteBloodCount_ordinal
    WBCKCCUMcloseronadmission) GROUP (Contaminant_all) MANN_WHITNEY MEDIAN(TESTVALUE=SAMPLE
COMPARE=PAIRWISE)
  /MISSING SCOPE=ANALYSIS USERMISSING=EXCLUDE
  /CRITERIA ALPHA=0.05  CILEVEL=95.

CROSSTABS
    /TABLES=DidpatientExpire Mortality30Day Readmission30Day Waspatientreadmittedforanyreasonwithin30days
    CoNS StaphAureus Enterococcus Enterobacterales Pseudomonadales Candida
    WBC_lowest WBC_normal WBC_high WBC_highest
    ReasonED_fever SymptomsofCOVIDchoiceFeverTemp.gt38.0 BY BSI_true_all
    /FORMAT=AVALUE TABLES
    /STATISTICS=CHISQ PHI CORR
    /CELLS=COUNT EXPECTED ROW COLUMN TOTAL PROP
    /COUNT ROUND CELL.

SORT CASES  BY BSI_true_all.
SPLIT FILE LAYERED BY BSI_true_all.

FREQUENCIES VARIABLES=HospitalCalculatedLengthofStayDays
    HospitalDischargeDisposition Mortality30Day
    /NTILES=4
    /STATISTICS=STDDEV MEAN MEDIAN SKEWNESS SESKEW
    /ORDER=ANALYSIS.


CORRELATIONS
  /VARIABLES=WhiteBloodCount_ordinal Ageyrs
  /PRINT=TWOTAIL NOSIG FULL
  /STATISTICS DESCRIPTIVES  /CI CILEVEL(95)
  /MISSING=PAIRWISE.
NONPAR CORR
  /VARIABLES=WhiteBloodCount_ordinal Ageyrs
  /PRINT=SPEARMAN TWOTAIL NOSIG FULL
  /CI METHOD(FHP)  CILEVEL(95)
  /MISSING=PAIRWISE.


* Using Ordinal logistic regression.
DATASET ACTIVATE DataSet2.
PLUM WhiteBloodCount_ordinal BY BSI_true_all
    TREATMENTGROUPImmunomodulatoryagentschoiceGlucocorticoids WITH Ageyrs apacheII
  /CRITERIA=CIN(95) DELTA(0) LCONVERGE(0) MXITER(100) MXSTEP(5) PCONVERGE(1.0E-6) SINGULAR(1.0E-8)
  /LINK=LOGIT
  /PRINT=FIT PARAMETER SUMMARY TPARALLEL
```

```
  /SAVE=PCPROB ACPROB.

* Generalized Linear Models - Using GLM.
GENLIN WhiteBloodCount_ordinal (ORDER=ASCENDING) BY BSI_true_all Gender
    TREATMENTGROUPImmunomodulatoryagentschoiceGlucocorticoids (ORDER=ASCENDING) WITH Ageyrs
  /MODEL BSI_true_all Gender TREATMENTGROUPImmunomodulatoryagentschoiceGlucocorticoids Ageyrs
 DISTRIBUTION=MULTINOMIAL LINK=CUMLOGIT
  /CRITERIA METHOD=FISHER(1) SCALE=1 COVB=MODEL MAXITERATIONS=100 MAXSTEPHALVING=5
    PCONVERGE=1E-006(ABSOLUTE) SINGULAR=1E-012 ANALYSISTYPE=3(LR) CILEVEL=95 CITYPE=WALD
LIKELIHOOD=FULL
  /MISSING CLASSMISSING=EXCLUDE
  /PRINT CPS DESCRIPTIVES MODELINFO FIT SUMMARY SOLUTION (EXPONENTIATED).

* Multinomial logistic regression - If proportional assumption violated.
NOMREG WhiteBloodCount_ordinal (BASE=FIRST ORDER=ASCENDING) BY BSI_true_all Gender
    TREATMENTGROUPImmunomodulatoryagentschoiceGlucocorticoids WITH Ageyrs apacheII
  /CRITERIA CIN(95) DELTA(0) MXITER(100) MXSTEP(5) CHKSEP(20) LCONVERGE(0) PCONVERGE(0.000001)
    SINGULAR(0.00000001)
  /MODEL
  /STEPWISE=PIN(.05) POUT(0.1) MINEFFECT(0) RULE(SINGLE) ENTRYMETHOD(LR) REMOVALMETHOD(LR)
  /INTERCEPT=INCLUDE
  /PRINT=CLASSTABLE FIT PARAMETER SUMMARY LRT CPS STEP MFI IC.

REGRESSION
  /DESCRIPTIVES MEAN STDDEV CORR SIG N
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA CHANGE ZPP
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT WhiteBloodCount_ordinal
  /METHOD=STEPWISE Ageyrs apacheII BSI_true_all
  /SCATTERPLOT=(*ZRESID ,*ZPRED)
  /RESIDUALS HISTOGRAM(ZRESID) NORMPROB(ZRESID)
  /SAVE COOK SRESID.

CROSSTABS
  /TABLES=WBC_high WhattreatmentwasgivenforCOVID19choiceSystemicSteroids BY BSI_true_all
  /FORMAT=AVALUE TABLES
  /STATISTICS=CHISQ CC PHI UC CORR RISK
  /CELLS=COUNT ROW COLUMN TOTAL SRESID PROP
  /COUNT ROUND CELL.

LOGISTIC REGRESSION VARIABLES BSI_true_all
  /METHOD=BSTEP(LR) PATIENTHISTORYCONDITIONSchoiceDementiaonlycheckifpresentatbaseli apacheII
ReasonED_neuro
  PATIENTHISTORYCONDITIONSchoiceModerateorseverelіverdiseaseportal
PATIENTHISTORYCONDITIONSchoiceChronicdialysishemodialysisorperit
    TREATMENTGROUPImmunomodulatoryagentschoiceGlucocorticoids apacheII
   /CONTRAST (PATIENTHISTORYCONDITIONSchoiceDementiaonlycheckifpresentatbaseli)=Indicator(1)
   /CONTRAST (PATIENTHISTORYCONDITIONSchoiceModerateorseverelіverdiseaseportal)=Indicator(1)
   /CONTRAST (PATIENTHISTORYCONDITIONSchoiceChronicdialysishemodialysisorperit)=Indicator(1)
   /CONTRAST (TREATMENTGROUPImmunomodulatoryagentschoiceGlucocorticoids)=Indicator(1)
   /CONTRAST (ReasonED_neuro)=Indicator(1)
```

```
  /SAVE=PRED
  /CLASSPLOT
  /PRINT=GOODFIT CI(95)
  /CRITERIA=PIN(0.05) POUT(0.1) ITERATE(20) CUT(0.5).

LOGISTIC REGRESSION VARIABLES BSI_true_all
  /METHOD=BSTEP(LR) PATIENTHISTORYCONDITIONSchoiceDementiaonlycheckifpresentatbaseli apacheII
SymptomsofCOVIDchoiceNeurological
  PATIENTHISTORYCONDITIONSchoiceModerateorsevereliverdiseaseportal
PATIENTHISTORYCONDITIONSchoiceChronicdialysishemodialysisorperit
    TREATMENTGROUPImmunomodulatoryagentschoiceGlucocorticoids apacheII
   /CONTRAST (PATIENTHISTORYCONDITIONSchoiceDementiaonlycheckifpresentatbaseli)=Indicator(1)
   /CONTRAST (PATIENTHISTORYCONDITIONSchoiceModerateorsevereliverdiseaseportal)=Indicator(1)
   /CONTRAST (PATIENTHISTORYCONDITIONSchoiceChronicdialysishemodialysisorperit)=Indicator(1)
   /CONTRAST (TREATMENTGROUPImmunomodulatoryagentschoiceGlucocorticoids)=Indicator(1)
   /CONTRAST (SymptomsofCOVIDchoiceNeurological)=Indicator(1)
  /SAVE=PRED
  /CLASSPLOT
  /PRINT=GOODFIT CI(95)
  /CRITERIA=PIN(0.05) POUT(0.1) ITERATE(20) CUT(0.5).

LOGISTIC REGRESSION VARIABLES BSI_true_all
  /METHOD=BSTEP(LR) apacheII gcs_all
  /CONTRAST (WBC_high)=Indicator(1)
  /CONTRAST (WhattreatmentwasgivenforCOVID19choiceSystemicSteroids)=Indicator(1)
  /SAVE=PRED COOK SRESID
  /PRINT=GOODFIT CI(95)
  /CRITERIA=PIN(0.05) POUT(0.10) ITERATE(20) CUT(0.5).

*VIF factors.
REGRESSION
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS R ANOVA COLLIN TOL CHANGE
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT BSI_true_all
  /METHOD=ENTER apacheII ReasonED_neuro gcs_all
  dementia_num livermoderate_num dialysis_num systemicsteroid_num
  /RESIDUALS NORMPROB(ZRESID).

*Logistic Regression entered.
LOGISTIC REGRESSION VARIABLES BSI_true_all
  /METHOD=ENTER gcs_all ReasonED_neuro WhattreatmentwasgivenforCOVID19choiceSystemicSteroids
   /CONTRAST (PATIENTHISTORYCONDITIONSchoiceDementiaonlycheckifpresentatbaseli)=Indicator(1)
   /CONTRAST (PATIENTHISTORYCONDITIONSchoiceModerateorsevereliverdiseaseportal)=Indicator(1)
   /CONTRAST (PATIENTHISTORYCONDITIONSchoiceChronicdialysishemodialysisorperit)=Indicator(1)
   /CONTRAST (WhattreatmentwasgivenforCOVID19choiceSystemicSteroids)=Indicator(1)
   /CONTRAST (ReasonED_neuro)=Indicator(1)
   /CONTRAST (WBC_high)=Indicator(1)
  /SAVE=PRED PGROUP
  /CLASSPLOT
  /PRINT=GOODFIT CORR CI(95)
  /CRITERIA=PIN(0.05) POUT(0.10) ITERATE(20) CUT(0.5).
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Supplemental Material

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LOGISTIC REGRESSION VARIABLES BSI_true_all
  /METHOD=BSTEP(LR) PATIENTHISTORYCONDITIONSchoiceDementiaonlycheckifpresentatbaseli
    PATIENTHISTORYCONDITIONSchoiceModerateorseverereliverdiseaseportal
    PATIENTHISTORYCONDITIONSchoiceChronicdialysishemodialysisorperit
    TREATMENTGROUPImmunomodulatoryagentschoiceGlucocorticoids SymptomsofCOVIDchoiceNeurological
    apacheII
  /CONTRAST (PATIENTHISTORYCONDITIONSchoiceDementiaonlycheckifpresentatbaseli)=Indicator(1)
  /CONTRAST (PATIENTHISTORYCONDITIONSchoiceModerateorseverereliverdiseaseportal)=Indicator(1)
  /CONTRAST (PATIENTHISTORYCONDITIONSchoiceChronicdialysishemodialysisorperit)=Indicator(1)
  /CONTRAST (TREATMENTGROUPImmunomodulatoryagentschoiceGlucocorticoids)=Indicator(1)
  /CONTRAST (SymptomsofCOVIDchoiceNeurological)=Indicator(0)
  /SAVE=PRED PGROUP
  /CLASSPLOT
  /PRINT=GOODFIT CI(95)
  /CRITERIA=PIN(0.05) POUT(0.10) ITERATE(20) CUT(0.5).
```