

Appendix

Table 1. Glucocorticoid products included and excluded from definition of systemic glucocorticoids

Table 2. Variables, Missing, Included in Model, How Handled

Figure 1. Flow chart

Table 1. Glucocorticoid Products Included and Excluded from Definition of Systemic Glucocorticoids

| Glucocorticoid Product | Included/Excluded |
|--|--------------------------|
| betamethasone acetate and sodium phos 6 mg/mL suspension for injection | Excluded |
| budesonide 0.5 mg/2 mL suspension for nebulization | Excluded |
| dexamethasone 0.5 mg tablet | Included |
| dexamethasone 1.5 mg tablet | Included |
| dexamethasone 4 mg tablet | Included |
| dexamethasone sodium phosphate 10 mg/mL injection solution | Included |
| dexamethasone sodium phosphate 4 mg/mL injection solution | Included |
| fludrocortisone 0.1 mg tablet | Excluded |
| hydrocortisone 1 % topical ointment | Excluded |
| hydrocortisone 10 mg tablet | Included |
| hydrocortisone 2.5 % topical cream | Excluded |
| hydrocortisone 2.5 % topical cream with perineal applicator | Excluded |
| hydrocortisone 2.5 % topical ointment | Excluded |
| hydrocortisone 5 mg tablet | Included |
| hydrocortisone sodium succinate 100 mg solution for injection | Included |
| methylprednisolone 4 mg tablet | Included |
| methylprednisolone 4 mg tablets in a dose pack | Included |
| methylprednisolone sodium succinate 1,000 mg intravenous solution | Included |
| prednisolone 15 mg/5 mL oral solution | Included |
| prednisolone acetate 1 % eye drops, suspension | Excluded |
| prednisone 1 mg tablet | Excluded |
| prednisone 10 mg tablet | Included |
| prednisone 20 mg tablet | Included |
| prednisone 5 mg tablet | Included |
| prednisone 5 mg/5 mL oral solution | Included |
| prednisone 50 mg tablet | Included |
| triamcinolone acetonide 0.1 % dental paste | Excluded |
| triamcinolone acetonide 0.1 % topical cream | Excluded |
| triamcinolone acetonide 0.1 % topical ointment | Excluded |

Table 2. Variables, Missing, Included in Model, How Handled

| Variable | # Missing (n=1806) | Candidate for Model | Fell Out: Primary Analysis | Excluded: Secondary Analysis | Note |
|---------------------------|--------------------|---------------------|----------------------------|------------------------------|---|
| Mortality | None | X | | | None missing |
| Mechanical Ventilation | None | X | | | Order for Vent respiratory rate or tidal volume. If not present assumed not on ventilator. |
| Glucocorticoids | None | X | | | Order for systemic steroids. If not present, assumed no steroids. |
| Age | None | X | | | None missing |
| Smoking | 602 | X | X | | 602 missing. In table 1 only present values reported. In MV analysis variable was categorized and missing was assumed normal. |
| Male | | X | X | | None missing |
| Female | | X | X | | None missing |
| Race | See note | X | | | Included 694 "other", 73 "declined", and 91 "unavailable" |
| Ethnicity | See note | X | | | Included 964 "Not Spanish", 73 "declined", and 93 "unavailable" and 24 "Unknown" |
| Race/Ethnicity Combined | 327 | X | | | When combined, Race/Ethnicity yielded 327 "Other/Unknown" which was treated as a separate category. |
| Initial oxygen saturation | None | X | | | None missing |
| Body mass index | | X | | | 179 missing. In table 1 only present values reported. In MV analysis variable was categorized and missing was assumed normal. |
| Admission Temperature | None | X | X | | None missing |
| Peak Temp during Hosp | None | | | | None missing |
| Charlson score | None | X | | | None missing |
| Hypertension | None | X | | | Searched for diagnosis code. If no code present, assumed normal. |
| COPD | None | X | | | Searched for diagnosis code. If no code present, assumed normal. |
| Diabetes | None | X | | | Searched for diagnosis code. If no code present, assumed normal. |
| Coronary Artery Disease | None | X | | | Searched for diagnosis code. If no code present, assumed normal. |
| HIV | None | X | | | Searched for diagnosis code. If no code present, assumed normal. |
| ESRD/Dialysis | None | X | | | Searched for diagnosis or CPT code. If no code present, assumed normal. |
| WBC (k/ μ L) | 5 | X | | | 5 missing. In table 1 only present values reported. In MV analysis variable was categorized and missing was assumed normal. |

| Table 2. Variables, Missing, Included in Model, How Handled (continued) | | | | | |
|--|---------------------------|----------------------------|-----------------------------------|-------------------------------------|---|
| Variable | # Missing (n=1806) | Candidate for Model | Fell Out: Primary Analysis | Excluded: Secondary Analysis | Note |
| Platelets (k/ μ L) | 5 | X | | | 5 missing. In table 1 only present values reported. In MV analysis variable was categorized and missing was assumed normal. |
| Sodium (mEq/L) | 15 | X | | | 15 missing. In table 1 only present values reported. In MV analysis variable was categorized and missing was assumed normal. |
| Potassium (mEq/L) | 26 | X | | | 26 missing. In table 1 only present values reported. In MV analysis variable was categorized and missing was assumed normal. |
| CRP (mg/dL) | 359 | X | | X | 359 missing. In table 1 only present values reported. In MV analysis variable was categorized and missing was assumed normal. |
| D-dimer (μ g/mL) | 536 | X | | X | 536 missing. In table 1 only present values reported. In MV analysis variable was categorized and missing was assumed normal. |
| Creatinine (mg/dL) | None | X | | | None missing |
| Troponin T (ng/mL) | 258 | X | | X | 258 missing. In table 1 only present values reported. In MV analysis variable was categorized and missing was assumed normal. |
| IL-6 (pg/mL) | 1300 | | | | 1300 missing. Variable removed from the analysis. |
| LDH (μ g/L) | | X | | X | 227 missing. In table 1 only present values reported. In MV analysis variable was categorized and missing was assumed normal. |
| Fibrinogen (mg/dL) | 1000 | | | | 1000 missing. Variable removed from the analysis. |
| Ferritin (ng/mL) | 680 | X | | X | 680 missing. In table 1 only present values reported. In MV analysis variable was categorized and missing was assumed normal. |
| CK (U/L) | 336 | X | | X | 336 missing. In table 1 only present values reported. In MV analysis variable was categorized and missing was assumed normal. |
| AST (U/L) | 60 | X | | | 60 missing. In table 1 only present values reported. In MV analysis variable was categorized and missing was assumed normal. |
| Glucose (mg/dL) | 263 | X | | X | 263 missing. In table 1 only present values reported. In MV analysis variable was categorized and missing was assumed normal. |
| Lymphocytes (k/ μ L) | 5 | X | | | 5 missing. In table 1 only present values reported. In MV analysis variable was categorized and missing was assumed normal. |

Table 2. Variables, Missing, Included in Model, How Handled (continued)

| Variable | # Missing (n=1806) | Candidate for Model | Fell Out: Primary Analysis | Excluded: Secondary Analysis | Note |
|-------------------------|---------------------------|----------------------------|-----------------------------------|-------------------------------------|---|
| Procalcitonin (ng/mL) | 754 | X | | X | 754 missing. In table 1 only present values reported. In MV analysis variable was categorized and missing was assumed normal. |
| DNR | None | | | | Searched for order. If no order found, assumed normal/absent. |
| DNI | None | | | | Searched for order. If no order found, assumed normal/absent. |
| DNR or DNI on Admission | None | X | | | Searched for order. If no order found, assumed normal/absent. Coded as present if order entered within 48 hours of admission. |
| Hydroxychloroquine | None | X | X | | Searched for order. If no order found, assumed normal/absent. |
| High Flow Nasal Cannula | None | | | | Searched for order. If no order found, assumed normal/absent. |
| New Dialysis | None | | | | Searched for order. If no order found, assumed normal/absent. |

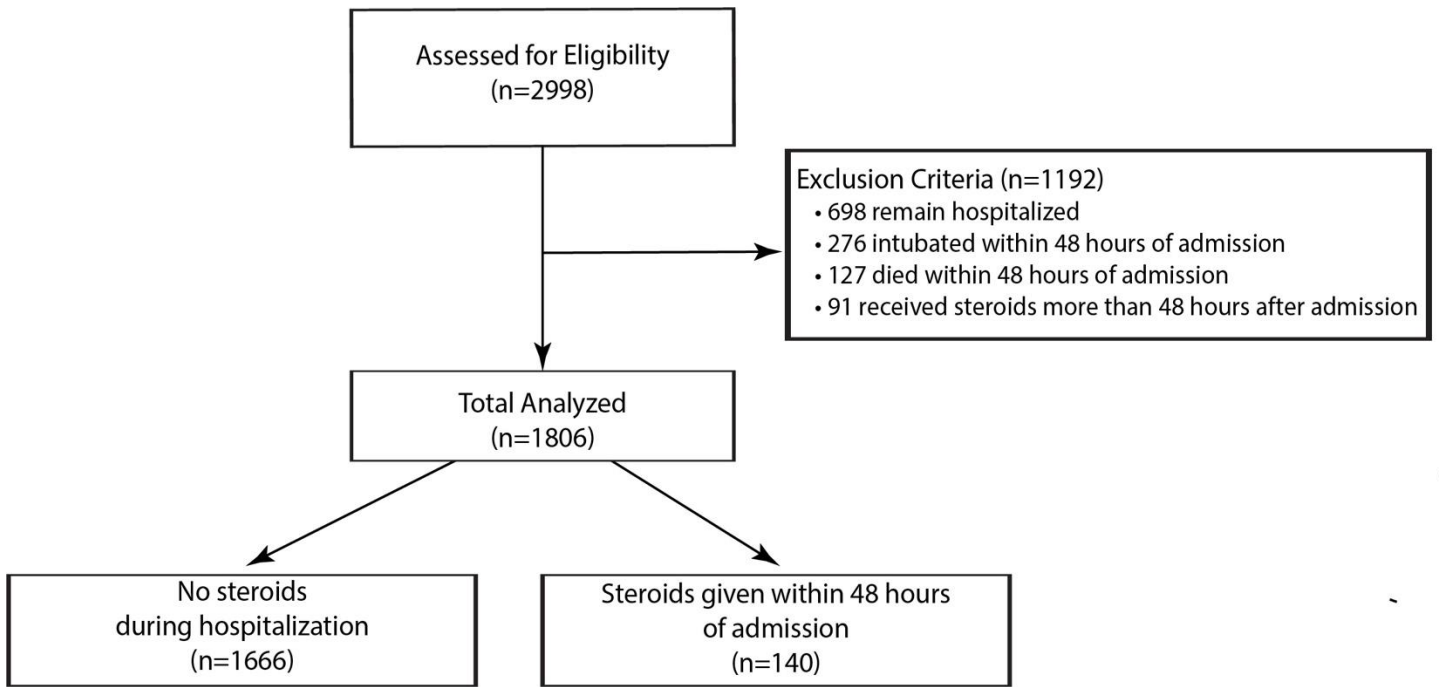


Figure 1: Flow chart