



# PEDIATRIC AMBULATORY ANESTHESIA DURING COVID-19

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# EPIDEMIOLOGY

- Fewer cases, milder symptoms and better prognosis compared to adults.
- Respiratory droplets, aerosol transmission (close, prolonged contact)
- Fecal and urine aerosol transmission for longer than respiratory.
- Pediatric cases tend to be clustered cases (close contact transmission)
- More severe disease in children with comorbidities
- Play a major role in community based transmission

# SIGNS/SYMPTOMS

- The incubation period ranges from 1 to 14 days, mostly 3 to 7 days.
- Viral co-infection in up to 2/3 cases which test positive
- Fever, dry cough, and fatigue
- Children tend to have upper respiratory symptoms such as nasal congestion, runny nose, and sore throat.
- Atypical symptoms: vomiting, diarrhea or low energy and shortness of breath.

# DIAGNOSIS/LAB FINDINGS

- Non specific blood tests
- SARS-CoV-2 nucleic acid test: found in sputum, blood, feces, anal swabs
- Blood SARS-CoV-2 antibody detection
- Spiral chest CT

# HIGH RISK CHILDREN

- Contact history of cases with severe COVID-19.
- Underlying diseases
- On immunosuppressants
- Under 3 month age

# PRE-PROCEDURE

- Scheduling
- Screening
- Instructions
- Visitor policy
- DOS screening

# WAITING ROOM

- Increased cleaning
- Spacing between cases
- Remove all toys and potential fomites
- Adequate seating space for social distancing or wait in car
- Televisits for as much as possible
- Mask use
- Food and drink

# TO TEST OR NOT

- ASA-APSF and SAMBA statement
- Determining community transmission rate
- Types of tests
- Feasibility/costs/risks
- Informed consent



# DOS: PRE-PROCEDURE

- IVs when possible
- AGP in appropriate locations
- Premedication
- Parental presence

# INTRAOPERATIVE

- Induction room
- Air exchange times
- Type of airway
- Viral filters
- PPE use
- Wait times between
- Cleaning protocol

# POSTOPERATIVE

- Recovery area
- Visitor policy
- PONV
- Emergence delirium

# SUMMARY

- Characteristics of COVID-19 in children
- Special anesthetic considerations
- Special NORA considerations
- May the Fourth be with you