

# COVID19@SMH

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# Disclosures

- Associate Professor Florida State University Emergency Medicine Residency Program
  - Director for Research in Emergency Medicine
  - Staff Emergency Physician Sarasota Memorial Hospital
  - No Commercial Affiliations
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# Objectives

- Health System
  - State of COVID19
  - Process and Practice
  - Transformation
  - Science and Survival
  - Next Steps
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# Sarasota Memorial Hospital Health System

- Began in 1925 with 32 Beds
- Today has a 75 + Bed ED and 830 + Beds
- Levels II Trauma Center & Stroke Center with Neurosciences
- 24/7 STEMI Call & Complete Cardiac Services
- Emergency Medicine + Internal Medicine Residency Programs
- Full Scale Critical Illness and Injury Care
- A Vibrant Ambulatory and Urgent Care Health System
- Upcoming Expansion to a Cancer Institute and a New Facility
- Cooperative EMS Model with Fellowship in Development



# SMH CMS Ratings 1/30/2020

- [Sarasota Memorial Hospital](#) (SMH) received five-star quality rating for overall performance in areas of mortality, safety, readmissions, patient experience, effectiveness of care, timeliness of care and efficient use of medical imaging
- The only hospital in Florida State amongst 45 in the USA—to earn the five-stars from the [Centers for Medicare & Medicaid Services](#) (CMS).
- 4,586 U.S. hospitals evaluated, less than 10 percent earned the 5 Stars.
- CMS Areas of Performance: mortality, safety, readmissions, patient experience, effectiveness of care, timeliness of care and efficient use of medical imaging.

# SMH

- Growing City
  - Predominant Geriatric Population and Fall Visitor Population
  - Epidemic announced in March 2020
  - Full Scale plan Implemented keeping all protocols and processes in Mind
  - Patient Safety , Worker Safety , Resident Safety
  - Infection Control and Surge Capacity Processes Implemented
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# Since March 2020

- Clarity in Internal Communication
  - Implementing every Infection Control Measure effectively
  - Engage in Innovation
  - Engage in Public Education
  - Integration and Team Work
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# The Emergency Department

- Patient Centered Care
  - Patient Centered Education
  - Patient Centered Innovation
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# Sarasota County Numbers 1<sup>st</sup> September

- World has 25 + Million Patients
- United States has 6 + Million
- Florida State has 623K +
- Sarasota has 7200+
- SMH has Dedicated Personalized Information System

# SMH Data Set 31<sup>st</sup> August 2020

- **Hospital / ICU Capacity** : Hospital beds: 839 Patient census: 574
- **COVID-positive patients:** 31
- **Total ICU beds:** 72 \* **Today's ICU census:** 46 (50 yesterday)
- **COVID-positive patients in ICU today:** 6 (7 yesterday)
- \* *SMH increased its ICU capacity from 62 to 72 beds in June and has enough ventilators to create more than 100 ICU beds, if needed, to manage a surge.*
- **COVID-19 Test Results**
- **7-Day SMH positivity rate:** 2.8% (down from 3% last week)
- **Patients who have tested positive** (excludes repeat positives): 880 \*\*
- **Patients who have tested negative:** 16,099 \*\*
- \*\* *Reflects patients tested through SMH systems since March 2.*
- **COVID-19 Patient Update** \*\*\*
- **Patients hospitalized since outbreak began:** 784 (778 yesterday)
- **Patients treated/discharged:** 815 (813 yesterday) {outpatients treated in the ER but not hospitalized and inpatients who have been treated and discharged or cleared by infection control but not yet discharged}
- **Patient deaths:** 90 (89 yesterday)
- \*\*\* *Reflects cumulative number of patients treated at SMH since outbreak began in March.*

# The PROACTIVE COVID Policy

- Following Guidelines Proactively
  - Strict Visitation Policy : ISOLATION (Updated Daily)
  - Strict Infection Control Policy
  - Donning Doffing, Mask Usage, Waste Disposal, Patient Transportation
  - Strict Goals of Care Model for Admission
  - Supporting Florida Community Testing Location
  - Participating in Prevention Trial and Plasma Donation Program
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# Improvised Patient Care Journey



# In the SMH Emergency Department

- Infection Control From Day One
  - Avoided Missing the Interpersonal Transmission Blind Spot
  - Mandatory Temperature Checks
  - Employee Health Support System
  - Strict Stay home when Sick Rule
  - PPE always in Supply
  - Vitals before Visit
  - Dedicated Area in Triage / Telemedicine in Triage / Telemedicine in Clinics
  - Elective Surgeries with Caution
  - Dedicated Critical Illness and Injury Area
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# Key Fundamentals

- Anyone can have COVID = Everyone is at Risk
  - Task with the Mask
  - Gown and Glove in the COVE
  - Every Admission get 24 Hour COVID and Every Suspected gets RAPID Test
  - Every Procedure Patient Gets COVID Tested
  - Every ICU gets RAPID COVID
  - Every Transfer get a COVID Test before admission
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# Education

- Based on Science
  - Public Education Portal with Back to School and Immunization Video
  - Participating in the World Academic Council of Emergency Medicine weekly meetings
  - Published Landmark Papers
  - Daily Educational Update via email and interactive clinical drill if needed
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# COVID Primer

Stawicki SP, Jeanmonod R, Miller AC, et al. The 2019-2020 Novel Coronavirus (Severe Acute Respiratory Syndrome Coronavirus 2) Pandemic: A Joint American College of Academic International Medicine-World Academic Council of Emergency Medicine Multidisciplinary COVID-19 Working Group Consensus Paper. *J Glob Infect Dis.* 2020;12(2):47-93. Published 2020 May 22. doi:10.4103/jgid.jgid\_86\_20

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# Clinical COVID

- Leyfman Y, Erick TK, Reddy SS, et al. Potential Immunotherapeutic Targets For Hypoxia Due to COVI-FLU [published online ahead of print, 2020 Jul 8]. *Shock*. 2020;10.1097/SHK.0000000000001627. doi:10.1097/SHK.0000000000001627 ([BASIC SCIENCE](#))
  - Galwankar SC, Paladino L, Gaieski DF, Nanayakkara K D, Somma SD, Grover J, Stawicki SP. Management algorithm for subclinical hypoxemia in coronavirus disease-2019 patients: Intercepting the “Silent Killer”. *J Emerg Trauma Shock* 2020;13:110-3 ([TRIAGE](#))
  - Sinha S, Sardesai I, Galwankar SC, B. Nanayakkara P W, Narasimhan DR, Grover J, Anderson III HL, Paladino L, Gaieski DF, Somma SD, Stawicki SP. Optimizing respiratory care in coronavirus disease-2019: A comprehensive, protocolized, evidence-based, algorithmic approach. *Int J Crit Illn Inj Sci* 2020;10:56-63 ([VENT SPARING ALGORITHM](#))
  - Sardesai I, Grover J, Garg M, Nanayakkara P W, Di Somma S, Paladino L, Anderson III HL, Gaieski D, Galwankar SC, Stawicki SP. Short Term Home Oxygen Therapy for COVID-19 patients: The COVID-HOT algorithm. *J Family Med Prim Care* 2020;9:3209-19 ([HOME OXYGEN THERAPY](#))
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# Science of TeleMedicine

Chauhan V, Galwankar S, Arquilla B, et al. Novel Coronavirus (COVID-19): Leveraging Telemedicine to Optimize Care While Minimizing Exposures and Viral Transmission. *J Emerg Trauma Shock*. 2020;13(1):20-24.  
doi:10.4103/JETS.JETS\_32\_20

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# Early Patient Data

- Arrieta J, Galwankar S, Lattanzio N, Ray D, Agrawal A. Studying the Clinical Data of COVID Positive patients admitted to a tertiary care academic hospital. J Emerg Trauma Shock 2020;13:131-4
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# Global Partnerships

- Weekly Saturday Summit at 9 AM EST for 25 Weeks since Inception
  - Support Data Capture across sites in the world
  - Consult and Train HCW in Kerala for COVID Control
  - Health Minister of Kerala won the COVID19 Award from UN  
<https://www.shethepeople.tv/home-top-video/kk-shailaja-united-nations-covid-19/>
  - Participated in COVEMERGE International Study for ED Assessments as a Partner Site. Submitted for Publication
  - Ultrasound Guided COVID Rule out in Chest X-Ray Negative Patients
  - Plant Based Interventions for COVID19
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# HCW in COVID19

- Sahu AK, Amrithanand VT, Mathew R, Aggarwal P, Nayer J, Bhoi S. COVID-19 in health care workers - A systematic review and meta-analysis [published online ahead of print, 2020 Jun 6]. *Am J Emerg Med*. 2020;38(9):1727-1731. doi:10.1016/j.ajem.2020.05.113 (Partner site)
  - *Meta-analysis of eleven studies showed that nearly 10% of COVID-19 positive patients are health care workers. The incidence of severe disease in health care workers (9.9%) was significantly lower than its incidence among all COVID-19 positive patients (29.4%). The mortality among health care workers (0.3%) was also significantly lower as compared to that of all patients (2.3%)*
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# Summary

- Improvise without Compromise
  - Adhere to Best Practices
  - Policy Development and Policy Implementation are equally crucial
  - Patient and Processors have no Second
  - Public have to informed 24/7
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# Questions

- Thanks to DHHS
  - Thanks to Leadership
  - Grateful for the Opportunity to serve
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