# PDSA #1

SARASOTA MEMORIAL HOSPITAL MAIN CAMPUS

# **DRIVER 1: READINESS**

Driver Impacted 1B:

Ensure rapid access to severe hypertension medication

PDSA#	1
FACILITATOR	Nurse Driven
LOCATION	OBECC, LD, MBU, Women's & Pediatric's Unit
DATES of TEST	Implemented Nurse Driven Protocol for OB Severe Hypertension, August 2022
TESTING POPULATION	All OB Patients
ESTIMATED NUMBER IMPACTED	January- 40 patients presented with severe range BP's and 37 of them received treatment on time. February- 28 patients presented with severe range BP's and all 28 received treatment and on time.
TEST DESCRIPTION	Any 2 severe Blood Pressure readings (Systolic BP ≥160mmHg and/or Diastolic ≥100mmHg) within the hour, the severe hypertension protocol is initiated by the nurse.

### WHAT WORKED WELL

- All staff completed a mandatory HealthStream prior to implementation of new order set and process
- Education email sent to staff (image A)
- Real time education with staff from leadership and at unit shift huddles
- Easy access to place orders in emar for "Nurse Driven Protocol" (image B)
- Quick selection of requested orders (image C)
- 1st line medication given by nurse PRIOR to calling OB to ensure prompt treatment of severe hypertension
- 1st line medication (Oral Nifedipine) is loaded in Pyxis on unit floors
- "Tear Off" pad with instructions for ease of tracking times, calls, effects, etc (image D)

### **IMAGE A:**

Education email sent to all staff to inform them of the new OB severe hypertension order set and process.

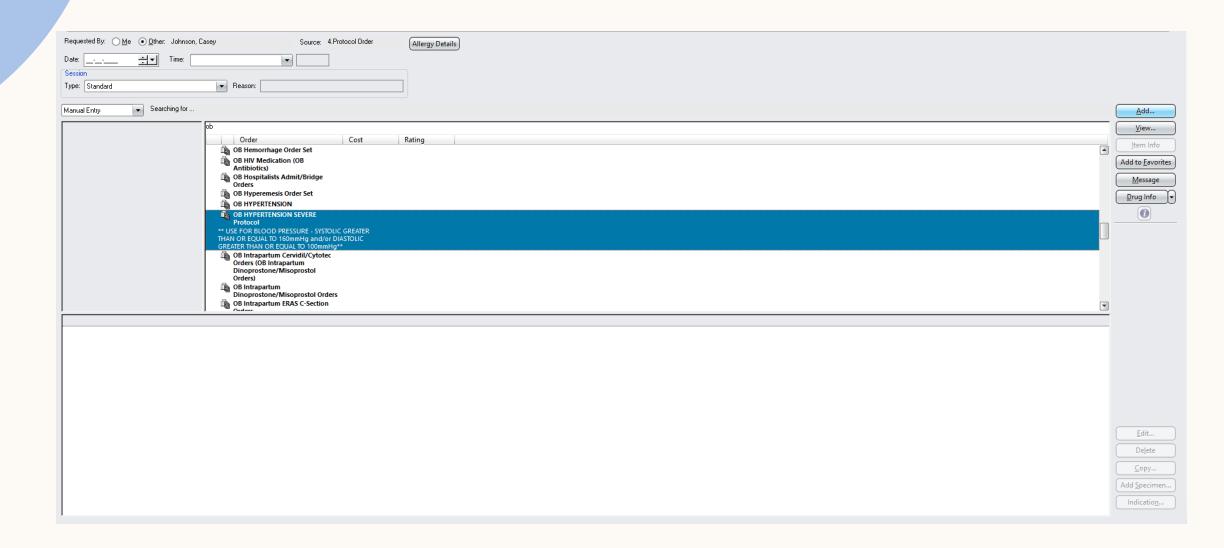
# OB HYPERTENSION SEVERE ORDER SET IS LIVE!

# PLEASE BEGIN USING IN THE OBECC AND ON THE FLOOR



- work through the meds starting with first line
- call the patient's provider within 20 minutes of med administration
- if you struggle to get ahold of the provider within 10 minutes of calling, go up the chain of command
- if you encounter issues
   working through the protocol
   with guidance from the
   provider, please escalate
   concerns to OB Leadership

# IMAGE B: Order Set in emar

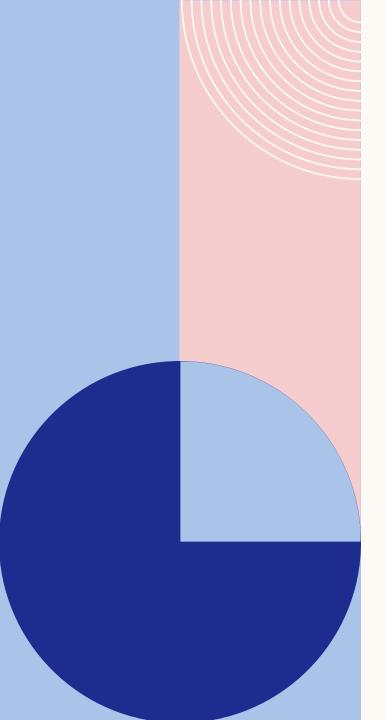


# IMAGE C: Quick selection of order set variables

D IIII ERREMBION BEVERE I TORO	col [14 orders	of 14 are	selected]							
Deselect ALL Orders										
Click Button to RIGHT to Deselect ALL Orde	ers=>									
	<u>-</u>	•								
PATIENT CARE		1								
Patient Care - General		1								
atient Care - General	10	4- /l44"-								1
Blood Pressure Monitoring - 2 item(s)	Commen	ts/Instruction	ns							
✓ (i) Patient Care General Assess	ment Confirm	with second	blood pressi	ure 5 mini	ites from initia	l blood pressur	e			
☑  Patient Care General Assess								al to 160mmHg or DBP greater than or equal to		
Patient Care - General - 4 item(s)										
✓ ⑤ Seizure Precautions	Nursing t	o verify oxy	gen and suct	tion at bed	Iside and work	king; side rails	upright and padded.			
☑ IV.Access										
Patient Care General Treatm			patient if utiliz							
☑ ① Call Me	Call prov	ider within 2	:0 minutes of	rinitiating	BP medication	ns.				
HARMACY										
narmacy - Anti-hypertension Meds										
Order	Priority	Dose	Dose	UOM	Route	Frequency	Special Instructions	Comments		
Pharmacy - 8 item(s)										
✓ Ø NIFEdipine 10mg Cap	STAT	10		mg	PO	ONCE		First Line: 1st Dose.		
☑ Ø NIFEdipine 20mg Cap	STAT	20		mg	PO	ONCE		First Line: 2nd dose. May admini		
✓ Ø NIFEdipine 20mg Cap ✓ Ø Labetalol Injection	STAT	20	20	mg	PO IV	ONCE	Hold for HR less than 60.	First Line: 3rd Dose, May admini	ster 20 minutes atter prior dose. ninister 20 minutes after 3rd dose (	-f -if-di-i
☑ 1 Labetalol Injection	STAT		40	mg mg	IV	ONCE	Hold for HR less than 60.		minister 10 minutes after prior dose	
✓ ① Labetalol Injection 5 mg/mL	STAT		80	mg	IV	ONCE	Hold for HR less than 60.		ninister 10 minutes after prior dose	
☑ 0 hydrALAZINE Inj	STAT		5	mg	IV	ONCE	Tions for the root than ou.		ister 10 minutes after 3rd dose of I	
☑ 10 hydrALAZINE Inj	STAT		10	mg	IV	ONCE		Third Line: 1st Dose. May admin		
	-	-						Tillia Line. 1st Dose, May duffill	ister to minutes after prior dose	

**IMAGE** D: "Tear Off" pad for nurse tracking

FIRST: Nifedepine PO	SECOND: Labetalol IV (over 2 minutes)	THIRD: Hydralazine IV (over 2 minutes
Every 20 minutes	Every 10 minutes	Every 20 minutes
oltial: 10mg, Date/Time	Initial: 20mg, Date/Time	Initial: 5-10 mg, Date/Time
cond: 20 mg, Date/Time	Second: 40 mg, Date/Time	
	Third 90mg Date/Time	Second: 10 mg, Date/Time
nird: 20mg, Date/Time	Third: 80mg, Date/Time	



# WHAT DIDN'T WORK

Situation arose where new providers questioned the practice of the nurse administering PO Nifedipine before making a call to the physician

### **RESPONSE:**

- Discuss the protocol and reasoning
  - Encourage conversation with medical staff
  - Ensure communication is appropriate

# WHAT DID WE LEARN THAT WAS UNEXPECTED

#### **ISSUE:**

• Nurses were nervous at first to administer the 1st line medication PRIOR to calling the provider

#### **RESPONSE:**

- Continued education and assurance with staff
- Discussions on need for timely treatment and rationale of the "why"
- Assure staff that the protocol has been approved by all providers

# **NEXT STEPS**

- Continued staff education
- Continued provider education
- Providing quicker recognition and treatment of severe hypertension
- Continued patient education for home medications
- Implementation of blood pressure cuff distribution and patient education on use upon discharge
- Plan of care following discharge

# **THANK YOU**