

Magee-Womens Hospital of UPMC

**Vivify Remote Monitoring
Postpartum Hypertension
Hy Simhan, MD, MS**

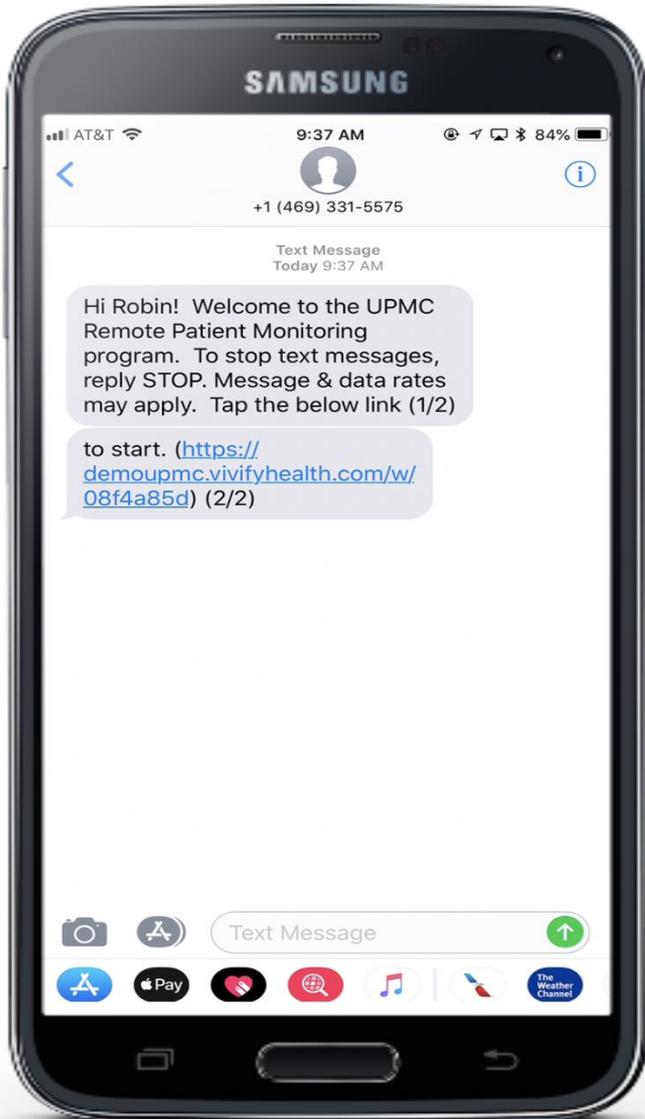
Vivify- Postpartum HTN

- Vivify partnering with Magee for postpartum hypertension/pre-eclamptic patient project began Feb. 2018
- BYOD (bring your own device) use with BP cuffs (given prior to D/C)
 - Deliberations ongoing: insurance coverage vs. patient purchase
- Enrolled & educated prior to discharge
- EMR - generates text to patient phone while on PP unit
- 2 pathways for severity of illness & program engagement
 - Hypertension & pre-eclampsia +/- use of Anti-hypertensives
- **Platform for longer care transition to PCP's**

2



BYOD



1. Good morning. Overall, how have you been feeling?
 1. Better than usual.
 2. About the same.
 3. Not as good. **M**
2. Have you had any blood pressure medications added or changed since your last blood pressure reading?
 1. Yes **H**
 2. No
 3. I don't know **M**
3. Have you been treated by a doctor or gone to the emergency room since your last blood pressure reading?
 1. Yes **H**
 2. No
4. Prompt for Blood Pressure reading
5. Prompt for Heart Rate reading
6. Have you had any of the following symptoms within the past 24 hours?
 1. Blood pressure greater than or equal to 160/110 and one of the following below **H**
 2. Chest pain **H**
 3. Severe headache **H**
 4. Blurry vision or visual disturbances **H**
 5. Shortness of breath **H**



Program Trend



Alerts

There are no alerts

	Fri Aug 16	Sat Aug 17	Sun Aug 18	Mon Aug 19	Tue Aug 20	Wed Aug 21	Thu Aug 22	Fri Aug 23	Sat Aug 24	Sun Aug 25	Mon Aug 26	Tue Aug 27	Wed Aug 28
--	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------

Health Index	100			100		100		96			96		100
--------------	-----	--	--	-----	--	-----	--	----	--	--	----	--	-----

Biometrics

BP (mmHg)	104/69			104/71		103/62		104/80			105/66		106/78
Pulse (bpm)	64			60		64		69			86		79

Pathways ☰

Postpartum Hypertension (Non-Medication)	✓			✓		✓		✓			✓		✓
PPHTN													

Level 1 Alerts Pending - 8/21/2014

A Postpartum Remote Hypertension Monitoring Protocol Implemented at the Hospital Level

Alisse Hauspurg, MD, Lara S. Lemon, PharmD, PhD, Beth A. Quinn, RN, Anna Binstock, MD, Jacob Larkin, MD, Richard H. Beigi, MD, Andrew R. Watson, MD, and Hyagriv N. Simhan, MD

Table 1. Demographic Characteristics (N=409)

Characteristic	Value
Maternal age (y)	31.0 (27.0–35.0)
Race	
Caucasian	305 (75)
African American	87 (21)
Asian	8 (2.0)
Other	9 (2)
Predelivery BMI (kg/m ²)	27.8 (23.6–34.6)
Insurance status	
Private	274 (67)
Public	128 (31)
Other	7 (2)
Primiparous	156 (38)
Tobacco use*	44 (11)
Pregestational diabetes*	9 (2)
Gestational diabetes*	45 (11)

BMI, body mass index.

Data are median (interquartile range) or n (%).

* Missing for seven patients.

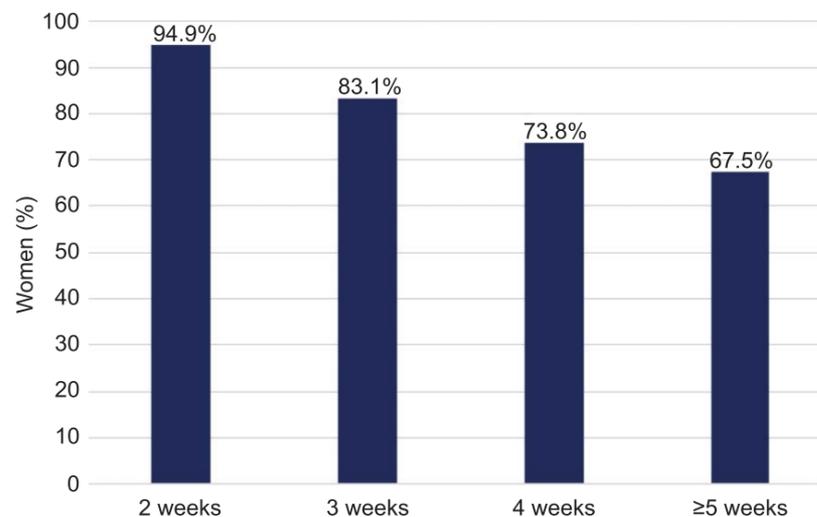


Fig. 2. Proportion of cohort (N=409) continuing the program through weeks 2–5 and beyond postpartum.