

The American College of  
Obstetricians and Gynecologists

WOMEN'S HEALTH CARE PHYSICIANS



# ACOG PRENATAL RECORD

NAIIS QUALITY AND PERFORMANCE MEASURE WORK GROUP

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**Caila Brander**

**Health IT & Clinical Informatics**

**American College of Obstetricians and Gynecologists**

# ELECTRONIC HEALTH RECORDS & PHYSICIAN BURNOUT

Electronic health record use is contributing to physician burnout



- As much as 50% of a physician's time spent completing clinical documentation <sup>1</sup> – “Pajama time”
- Est. 64 minutes per day spent processing EHR alerts <sup>2</sup>
- Documenting to fulfill billing requirements, not enhance patient care <sup>3</sup>

1. Shanafelt, TD et al. Mayo Clinic Proceedings 91(7):836-848.
2. Murphy, DR et al. JAMA Internal Medicine 176(4):559-560.
3. Ommaya, AK, et al. National Library Of Medicine Discussion Paper.

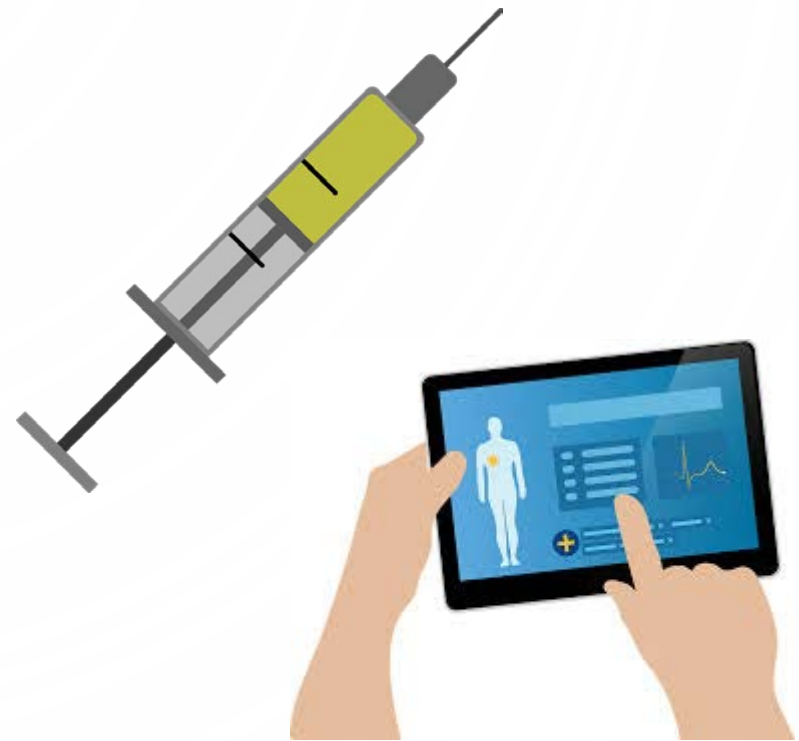
# ELECTRONIC HEALTH RECORDS & PREGNANCY VACCINATION RATES

Vaccination rates for pregnant women are low:

- Flu → 35%<sup>4</sup>
- TDAP → 28.8%<sup>5</sup>

State vaccine registries & EHRs:

- Accuracy of data – are all vaccinations being captured?
- Interoperability issues

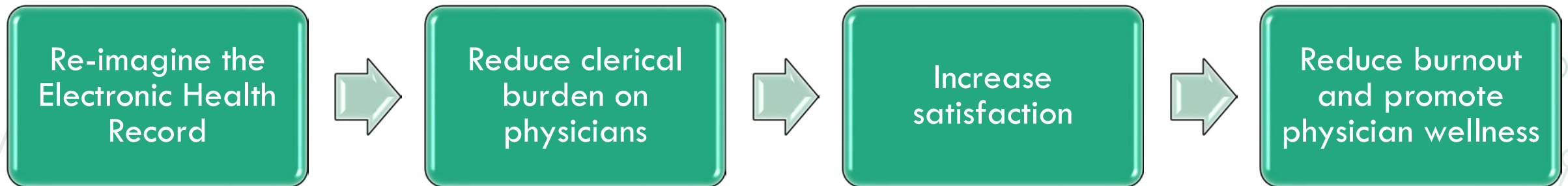


4. Center for Disease Control. 2017.

5. Ibid.

# LET'S RE-IMAGINE WHAT TECHNOLOGY CAN DO

- Clinical decision support at point of care
- Care plan generated from clinical guidance
- Reminders – only when you need them
- Automated/Validated CPT & ICD-10 coding
- Easy lab and prescription ordering
- Technology integrated into work flow
- Intuitive display
- Auto-updated with guidance changes



# ACOG PRENATAL RECORD

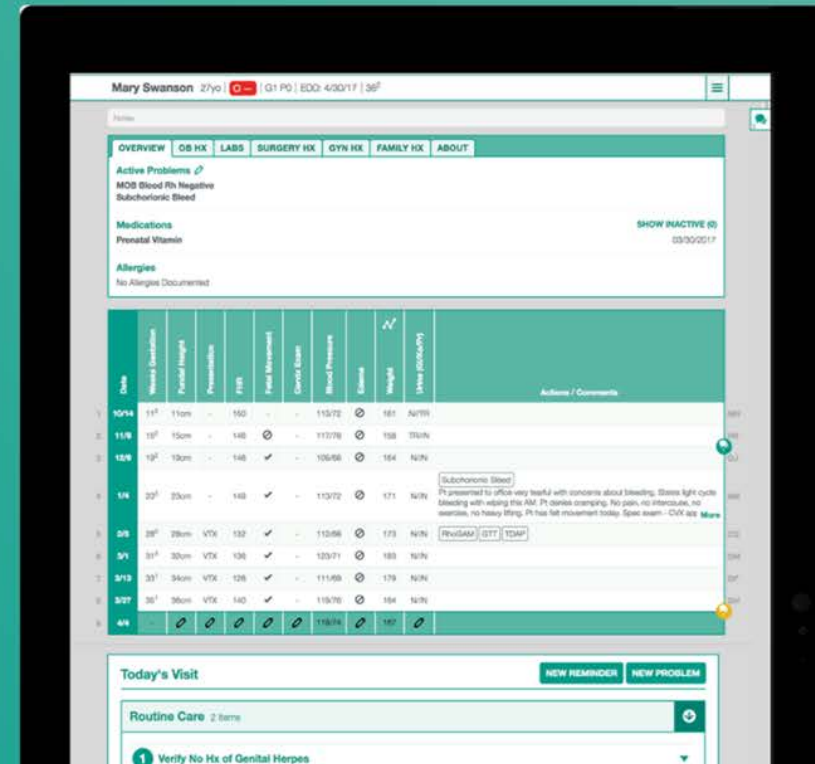
## A PREGNANCY APP FOR YOUR EHR

In partnership with the American College of Obstetricians & Gynecologists, the ACOG Prenatal Record by Dorsata marries the simplicity and speed of the original paper record with the power of ACOG's guidelines.

The result? High quality prenatal outcomes and an OB chart you'll want to hug.

[Request Demo](#)

[Learn More](#)



# PATIENT RECORD BEFORE...

Visit Note (Mar 28, 2017 3 of 3) (Supervising: JS Performing: RD)

AARON, STACEY W    F    04/09/1929    87y 11m 2w    No Known Allergies    Balance: 394.00

Mar 28, 2017 (Proc.: Prenatal Check - Initial Case: GENERAL 02)    QReminder

Dashboard

Previous Visit     Comparison     Mar 28, 17    Jun 08, 15    Dec 05, 14

Complaints/HPI

Provider: Ronald Domiano, MD  
 Encounter Date: June 08, 2015  
 Patient: AARON, STACEY W (9851)  
 A.K.A.: MEG Sex: Female DOB: Apr 09, 1929 Age: 86 year 1 month 4 week  
 Race: white  
 Address: 7584 Timberland Dr, Hampton NH

Active Diagnosis (ICD-10):

ICD-10	Description	Date	Self
099.011	Anemia complicating pregnancy, first trim	03/28/17	Self

Summary:

1 reminder(s) created since last visit.  
 Patient speaks: English  
 Primary Insurance: BCBS OF DELAWARE

Active Prescription:

Medication	Dosage	Date	Quantity	Other MD
Aspirin 325 mg TABLET	1 every morning	06/07/15	100	Other MD
AVANDAMET 4-500 mg TABLET	Take 1 tablet by mouth twice a day	06/07/15	60	Other MD
Clonix 5 mg TABLET	Take 1 every day	06/07/15	30	Other MD

Document:

Date	Description
06/08/15	GENERAL (GENERAL) - "Prenatal letter short hand - 06/08/15 09:50 AM
11/02/08	SUMMARY REPORTS (SOAPWARE) - Patient Summary
08/05/05	VISIT NOTE (SOAPWARE) - brinchtis

Lab Order:

Test	Date
CBC w Auto Diff	06/08/15

Blood Sugar (Fasting)

bs

10  
5

# PATIENT RECORD AFTER...

Mary Swanson 28yo | O- | EDD: 6/26/17 ✓ | 36<sup>2</sup> All Changes Saved ☰

Notes

OVERVIEW
OB HX
LABS
SURGERY HX
GYN HX
FAMILY HX
ABOUT

**Active Problems** [✎](#)

MOB Blood Rh Negative  
Subchorionic Bleed

**Medications** SHOW INACTIVE (0)

Prenatal Vitamin 03/30/2017

**Allergies**

No Allergies Documented

Date	Weeks Gestation	Fundal Height	Presentation	FHR	Fetal Movement	Cervix Exam	Blood Pressure	Edema	Weight	Urine (Gl/Ke/Pr)	Actions / Comments
12/10	11 <sup>5</sup>	11cm	-	150	-	-	113/72	∅	161	N/N/TR	Initial Labs
1/4	15 <sup>2</sup>	15cm	-	146	∅	-	117/78	∅	158	TR/N/N	
2/1	19 <sup>2</sup>	19cm	-	148	✓	-	109/68	∅	164	N/N/N	
3/2	23 <sup>3</sup>	23cm	-	148	✓	-	113/72	∅	171	N/N/N	Subchorionic Bleed Pt presented to office very tearful with concerns about bleeding. States light cycle bleeding with wiping this AM. Pt denies cramping. No pain, no intercourse, no exercise, no heavy lifting. Pt has felt movement today. Spec exam - CV. <a href="#">More</a>

# ACOG PRENATAL RECORD

Mary Swanson 28yo | | EDD: 6/26/17 ✓ | 36<sup>2</sup> All Changes Saved

**Routine Care** 2 Items

- 1 Verify No Hx of Genital Herpes
- 2 Group B Strep Test

**Hx of Genital Herpes** 3 Items

- 1 Verify No Presence Of Lesions Or Prodrome At Each Visit After 36 Weeks
- 2 Re-examine Carefully at Time of Presentation to L&D
- 3 Order HSV Suppression

**PRESCRIPTIONS**

Valacyclovir 500 mg tablet

**LABS**

Group B Strep Test

**SEND ORDERS, NOTES & LABS TO ATHENAHEALTH**

- Creates **individual care plan according** to ACOG guidelines
- Provides **clinical decision support** at the point of care
- Interface **reduces administrative burden**
- Real time **data exchange** between Dorsata app and patient medical record

Notes

- OVERVIEW
- OB HX
- LABS
- SURGERY HX
- GYN HX
- FAMILY HX
- ABOUT

Active Problems

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Medications

Prenatal Vitamin

SHOW INACTIVE (0)

03/30/2017

Allergies

No Allergies Documented






Date	Weeks Gestation	Fundal Height	Presentation	FHR	Fetal Movement	Cervix Exam	Blood Pressure	Edema	Weight	Urine (Gl/Ke/Pt)	Actions / Comments
1 12/10	11 <sup>5</sup>	11cm	-	150	-	-	113/72		161	N/N/TR	<input type="button" value="Initial Labs"/>
2 1/4	15 <sup>2</sup>	15cm	-	146		-	117/78		158	TR/N/N	
3 2/1	19 <sup>2</sup>	19cm	-	148		-	109/68		164	N/N/N	
4 3/2	23 <sup>3</sup>	23cm	-	148		-	113/72		171	N/N/N	<input type="button" value="Subchorionic Bleed"/> Pt presented to office very tearful with concerns about bleeding. States light cycle bleeding with wiping this AM. Pt denies cramping. No pain, no intercourse, no exercise, no heavy lifting. Pt has felt movement today. Spec exam - CV. <a href="#">More</a>
5 4/3	28 <sup>0</sup>	28cm	VTX	132		-	112/68		173	N/N/N	<input type="button" value="RhoGAM"/> <input type="button" value="GTT"/> <input type="button" value="TDAP"/> <input type="button" value="28 Week Labs"/>

MH  
PR  
OJ  
MK  
CG














**Routine Care** 2 Items 

- 1 **Verify No Hx of Genital Herpes**   
- 2 **Group B Strep Test**   

**Hx of Genital Herpes** 3 Items 

- 1 **Verify No Presence Of Lesions Or Prodrome At Each Visit After 36 Weeks**   
- 2 **Re-examine Carefully at Time of Presentation to L&D**   
- 3 **Order HSV Suppression**   

**PRESCRIPTIONS**

Valacyclovir 500 mg tablet 

**LABS**

Group B Strep Test 

**SEND ORDERS, NOTES & LABS TO ATHENAHEALTH** 



# ACOG PRENATAL RECORD & IMMUNIZATIONS

- Vaccine updates entered in Dorsata appear in the “vaccines” tab in Athenahealth
- Currently have care plans for:
  - ✓ TDAP
  - ✓ Influenza

The screenshot displays the Athenahealth interface for patient Bertha TEST. The patient's profile includes demographic information (35yo F, 05-02-1983) and pregnancy details (G1P0000, 37.4, 06-30-2018, O-). The interface is divided into several sections:

- Pregnancy Problems:** A table listing conditions such as Chronic Hypertension, Gestational Diabetes, Maternal obesity complicating pregnancy, and RhD negative.
- Active Medications (2):** A table listing medications like Vitamin A, Zyrtec 10 mg capsule, Prenatal + DHA 28 mg iron-975 mcg-200 mg oral pack, Flonase Allergy Relief 50 mcg/actuation nasal spray, Aspirin 81 mg chewable tablet, Lisinopril, and Prenatal + DHA.
- Vaccines:** A section showing the administration of Tdap on 06-12-2018.

The interface also features a navigation menu on the left with icons for Find, Allergies, Problems, Meds, Vitals, Results, Visits, History, and Quality. The top navigation bar includes options for Calendar, Patients, Claims, Financials, Reports, Quality, and Support.

# ACOG PRENATAL RECORD

Mary Swanson 27yo | G1 P0 | EDD: 4/30/17 | 36<sup>w</sup>

Notes

OVERVIEW OB HX LABS SURGERY HX GYN HX FAMILY HX ABOUT

Active Problems  
MOB Blood Rh Negative  
Subchorionic Bleed

Medications [SHOW INACTIVE \(2\)](#)  
Prenatal Vitamin 03/30/2017

Allergies  
No Allergies Documented

Date	Weeks Gestation	Fetal Height	Presentation	FHR	Fetal Movement	Cervix Exam	Blood Pressure	Edema	Weight	Ultrasounds (G/W/PT)	Actions / Comments
10/14	11 <sup>w</sup>	11cm	-	150	-	-	113/72	0	161	N/PT	
11/8	15 <sup>w</sup>	15cm	-	146	✓	-	117/76	0	158	TR/N	
12/6	19 <sup>w</sup>	19cm	-	148	✓	-	109/68	0	164	N/N	
1/4	23 <sup>w</sup>	23cm	-	148	✓	-	113/72	0	171	N/N	Subchorionic Bleed Pt presented to office very fearful with concerns about bleeding. States light cycle bleeding with wiping this AM. Pt denies cramping, no pain, no intercourse, no exercise, no heavy lifting. Pt has felt movement today. Spec exam - CVX neg. <a href="#">More</a>
2/6	28 <sup>w</sup>	28cm	VTX	132	✓	-	112/68	0	173	N/N	RhoGAM   GTT   TDAP
3/1	31 <sup>w</sup>	32cm	VTX	136	✓	-	123/71	0	183	N/N	
3/13	33 <sup>w</sup>	34cm	VTX	128	✓	-	111/69	0	179	N/N	
3/27	35 <sup>w</sup>	36cm	VTX	140	✓	-	119/76	0	184	N/N	
4/4	-	0	0	0	0	0	119/74	0	187	0	

Today's Visit [NEW REMINDER](#) [NEW PROBLEM](#)

Routine Care 2 items

- 1 Verify No Hx of Genital Herpes

## Current Status

- ACOG Prenatal Record - Production
- Partnership with Dorsata
  - On athenahealth EHR System
  - Scaling to other EHR Systems
- Postpartum Record – Under development

**Gynecology**

**Well-Woman**

Urogynecology

Unspecified Bleeding

Fibroids  
Breast Health

Menopause  
Reproductive Health

Other Modules

**OUTPATIENT**

Postpartum

Prenatal

**Obstetrics**

**ACOG  
Comprehensive  
Women's Medical  
Record**

# REFERENCES

- Shanafelt, T. D., Dyrbye, L. N. Sinsky, C. O. Hasan, D. Satele, J. Sloan, and C. P. West. 2016. "Relationship between clerical burden and characteristics of the electronic environment with physician burnout and professional satisfaction". *Mayo Clinic Proceedings* 91(7):836-848.
- Murphy, D. R., A. N. Meyer, E. Russo, D. F. Sittig, L. Wei, and H. Singh. 2016. "The burden of inbox notifications in commercial electronic health records." *JAMA Internal Medicine* 176(4):559-560.
- Ommaya, A.K., P.F. Cipriano, D.B. Hoyt, K.A. Horvath, P. Tang, H.L. Paz, M.S. DeFrancesco, S.T. Hingle, S.B. Butler, and C. A. Sinsky. 2018. "Care-Centered Clinical Documentation in the Digital Environment: Solutions to Alleviate Burnout." Discussion paper. *National Library Of Medicine* 1-13.
- Center for Disease Control. 2017. "Pregnant Women and Flu Vaccination, Internet Panel Survey, United States, November 2017." Retrieved from: <https://www.cdc.gov/flu/fluview/pregnant-women-nov2017.htm>.

The slide features decorative circuit-like lines in the corners. The top-left and bottom-left corners have dark green lines, while the top-right and bottom-right corners have light green lines. These lines consist of straight segments and small circles, resembling a stylized circuit board or network diagram.

# Questions?