

The Importance of Prenatal Care and the Role of Community Health Workers

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Learning Objectives

Participants will...

- Identify the two HRSA performance measures related to pregnancy care
- Reflect on the role of community health workers in improving access to prenatal care
- Identify two unique risk factors for pregnant migrant farmworker women
- Analyze the readiness of their own work setting to assist pregnant women to access prenatal care

Quality of Care Measures

Early Entry into Prenatal Care

Percentage of pregnant women beginning prenatal care in the first trimester ¹



Why Do We Need Early Prenatal Care?

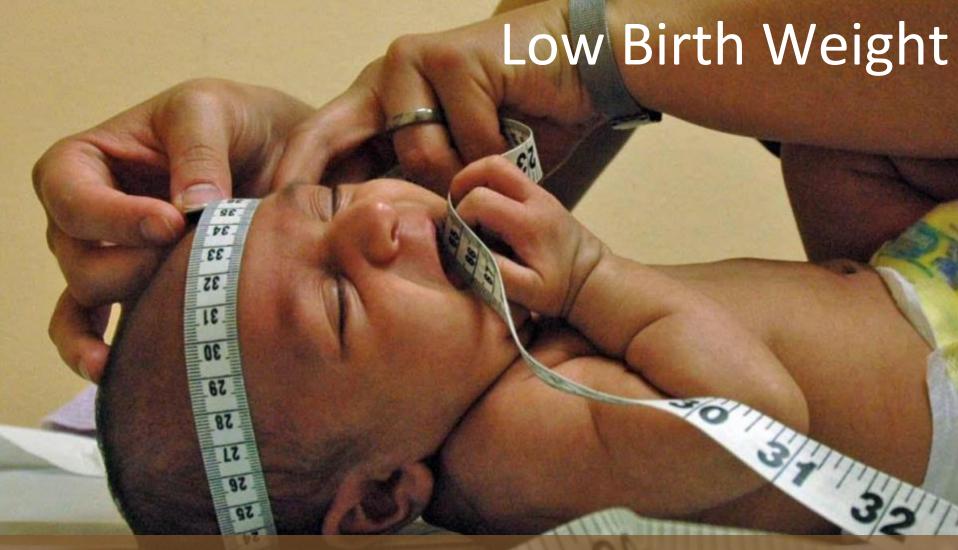
Association between early care and good outcomes

Early care means good access to care

Establishes a care relationship

Encourages early behavior changes

Health Outcomes & Disparities Measures²



Percentage of babies born to health center patients whose birth weight was below normal (less than 2500 grams)

Why is Birth Weight Important? 3,4



Healthy birth weight is related to healthy pregnancy



Low (and high) birth weight associated with various risk factors

- Diabetes
- Substance abuse
- Poor diet
- Racial/ethnic disparities
- Preterm birth
- Environment (work stress



Can be associated with life-long problems for the infant

"Women who receive early and regular prenatal care are more likely to have healthier infants"

AAP & ACOG, 2002

Challeng es for Health Care Programs	No shows	
	No records	
	Follow up of tests & tx	
	Cultural differences	preventive care
		gender issues
	Language issues	forms
		classes and handouts
		legal consent
	Legal status	eligibility for services

The Role of CHWs in Improving Performance in Pregnancy Care





Importance of prenatal care

Due date & trimesters

Prenatal visit schedule

Common discomforts

Prenatal care and testing

Fetal development

Risks, complications & danger signs

Prenatal education: self care, birth prep

Post partum care



- Why go for check-ups if a pregnant woman is feeling well?
- What are the benefits of prenatal care?
 - In terms of outcomes
 - In personal terms
- How do you talk to women about this?

Prenatal visits

What's the difference between different types of providers?







Calculation of due date 6

- ✓ LMP
- ✓ Estimated date of confinement (EDC) is calculated based on the first day of the last menstrual period (LMP) by adding 9 months and 7 days from that date.

OR

- ...subtract 3 months and add one year and 7 days
- ✓ Test: EDC for LMP of today

Trimesters ⁷

Duration of pregnancy is measured in weeks, counting from the LMP. The EDC is 40 weeks after the LMP.

Pregnancy is also measured in trimesters



Timing of visits 8

The standard schedule of prenatal visits for a normal pregnancy is:

- ✓ Every 4 weeks for the first 28 weeks
- ✓ Every 2 weeks for 28-36 weeks
- ✓ Every week from 36 weeks to birth
- ✓ Postpartum visit 6 weeks after birth

Note: This schedule may vary for a woman who is considered high risk

Content of visits



First Visit

Medical and social history

Risk screening—identification of problems or potential problems

Examination:

- Physical exam
- Pelvic exam
- Weight, height
- Blood pressure

Initial labs (more on this later)

Vitamins

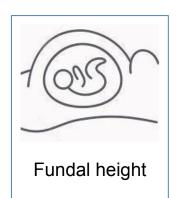
Subsequent Visits

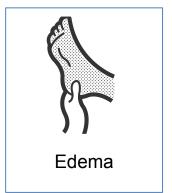




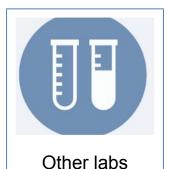




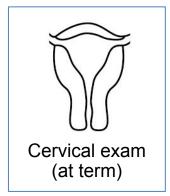




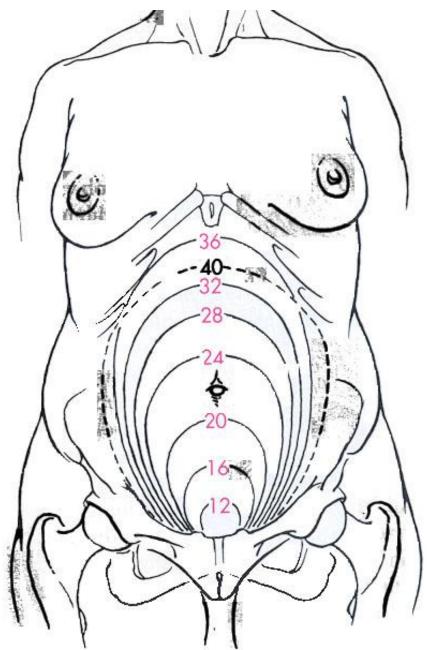








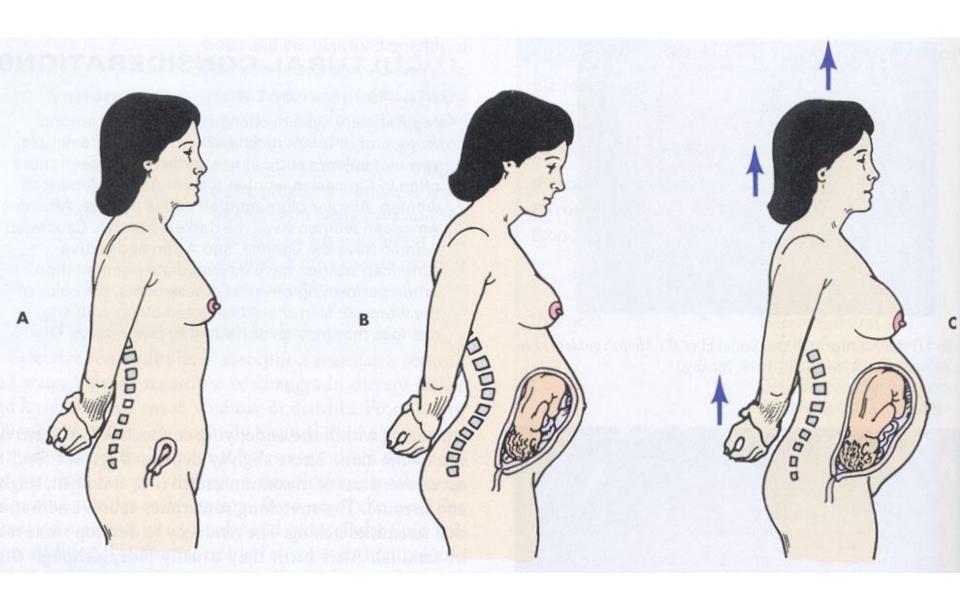
Pregnancy week-by-week ⁹



Common discomforts & symptoms

- Backache
- Frequent urination
- Breast tenderness, increased size, leaking
- Constipation
- Mild irregular contractions (3rd trimester)
- Lightheadedness
- Gums swelling, some bleeding
- Headaches
- Heartburn or indigestion
- Hemorrhoids
- Leg cramps
- Nausea and vomiting
- Increased vaginal discharge
- Swelling of feet, ankles, legs
- Mood changes







Some symptoms are normal (and even good!) Consejos—which might help and which might hurt?

Coping skills

Common Discomforts



Relaxation

Prenatal testing—in sequence

First Trimester (usually done at initial examination):

- Hemoglobin and hematocrit (H & H) or complete blood count (CBC)
- Blood type and Rh antibody screen
- Pap
- Gonorrhea (GC) and Chlamydia (CT)
- Syphilis (RPR)
- HIV
- Rubella immunity
- Hepatitis B immunity
- Urinalysis and urine culture
- Blood sugar (glucose) for women at high risk for diabetes (including Hispanics)
- Optional depending on risk status: ultrasound, PPD (TB test), genetic screening, blood lead screening, varicella immunity

Prenatal testing...

16-18 weeks

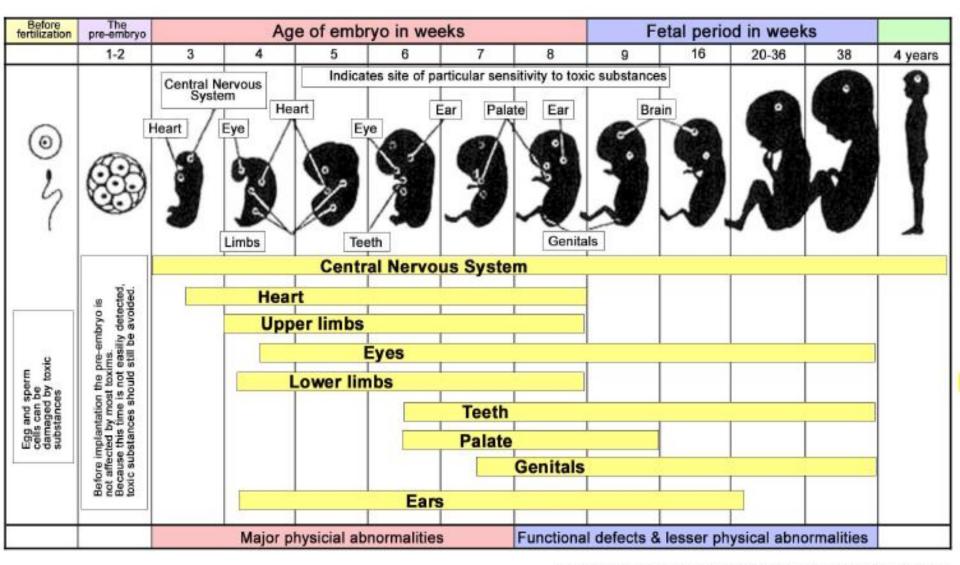
Alpha-fetoprotein (MSAFP)

26-28 weeks

- Glucose challenge test (GTT)
- Possible repeat of STI testing

35-37 weeks

Group B Strep culture (GBS)



Infertility

Previous cesarean section

Multiple pregnancies

Previous pregnancy loss

Risk Factors by Past History

Past deep vein thrombosis (DVT) or pulmonary embolus (PE)

Age—teen or over 35

Family history/genetic conditions

Thyroid disease

Diabetes,
Type I or II

Kidney disease

Heart disease

Risk Factors by Medical Problems

Cervical cancer

Seizures

Breast cancer

Psychiatric disorder

Psychosocial Risk Factors

Domestic violence

Poverty

Language other than provider

Homelessness

Cultural barriers to care

Scheduling or transportation problems

Exposure to hazardous/toxic agents

Substance abuse

Inadequate support

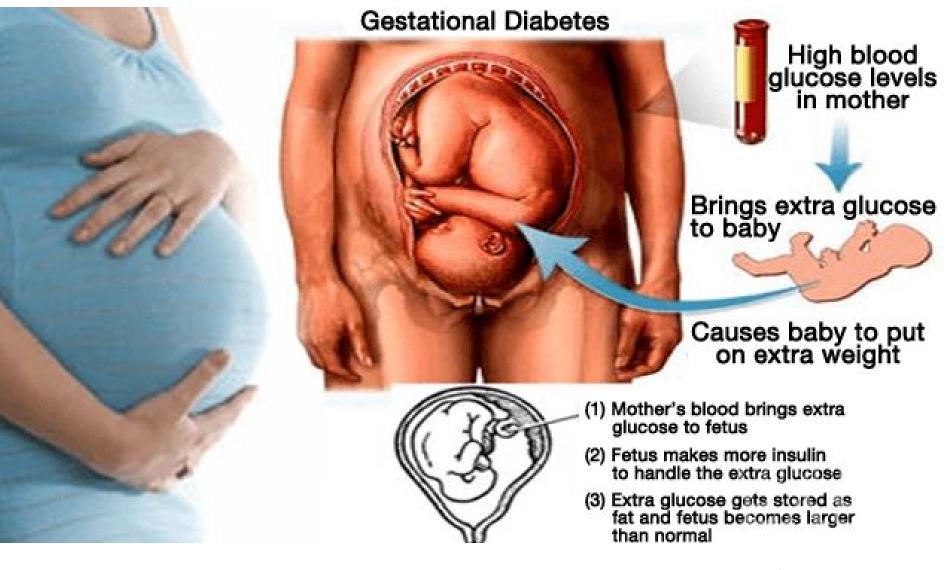
Developmental disability

Low level of education

Pregnancy complications 13

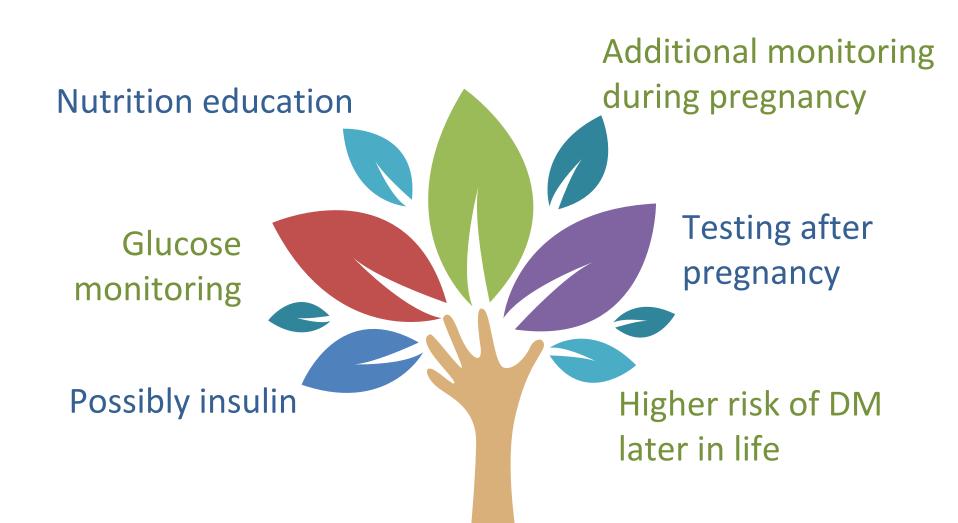
- Anemia
- High blood pressure, PIH
- Preterm labor
- Infections—UTI, viruses
- Placenta previa
- Placental abruption
- Gestational diabetes
- Exposure to chicken pox, rubella





Routine testing 24-28 weeks

Gestational Diabetes Treatment

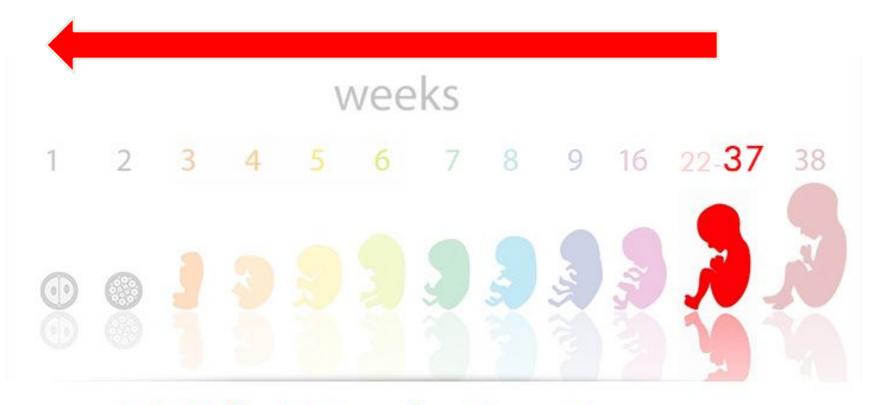


Danger Signs

- Severe or persistent headache
- Blurred vision or "spots" in vision
- Severe abdominal pain or cramping
- Severe or persistent vomiting
- Regular contractions, with increasing strength
- Decreased or no movement of the baby (after 5th month)
- Gush or flow of watery fluid from vagina
- Urinary symptoms—pain or burning
- High fever (above 101°F)
- Marked or sudden swelling in face or hands
- Sudden weight gain in a few days
- Vaginal bleeding



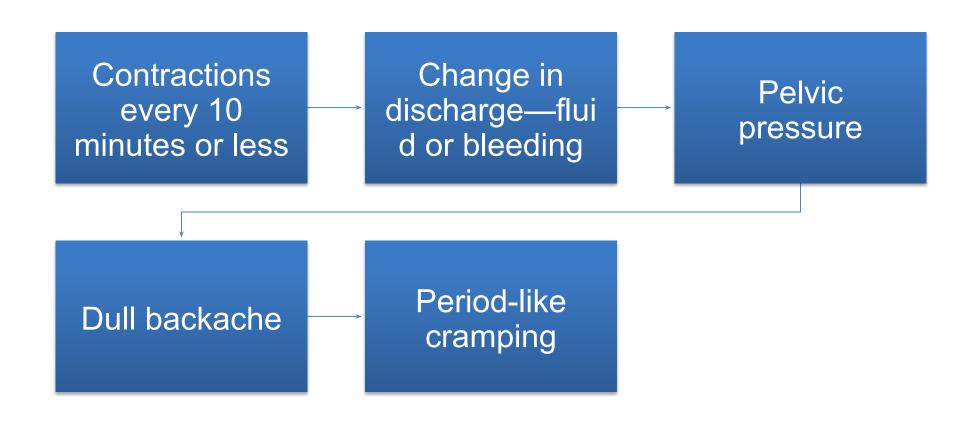
Preterm labor



37th Week Pregnancy

Preterm labor

Risk to baby—lungs and other organs not mature



Self Care

Oral health during pregnancy...

Treatment of periodontal disease can decrease risk of GDM, PTL



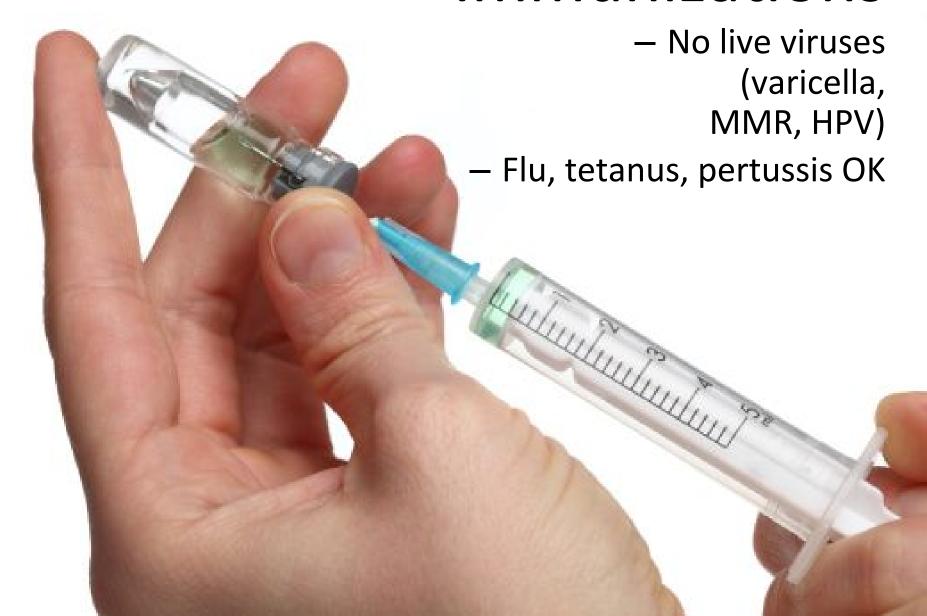


Medications

- Not all OTCs are safe
- Take prescriptions only as directed



Immunizations



Exercise

- 30 minutes per day
- Avoid excess (if unable to talk)
- Walking, swimming, stretching
- Avoid dangerous activities
- Avoid overheating—sauna, hot tub, etc.
- Preparing for the marathon of childbirth!
- Assess physical demands of work



ub Al		

Smoking—smoking cessation treatment

2nd hand smoke higher in tar, nicotine, CO

Spouses and babies of smokers have more respiratory illnesses
No safe amount

Alcohol—fetal alcohol syndrome

Drugs—refer for treatment

Drug screening may be done

High risk for pregnancy and newborn complications

Chemical exposures

At home and work
Lead screening
Pesticide exposure





Prenatal Nutrition 16

- Weight gain—25-30 lb if normal weight; 15-20 lb if overweight
- Vitamin
 supplements—Fe &
 folic acid & calcium
 especially important



Prenatal nutrition

- Liquids: 6-10 glasses/day
- Grains: 6/day
- Fruits & vegetables: 9/day (4-5 cups)
- Dairy: 4/day (3 cups)
- Protein: 3/day (5-5½ oz)
- 300 extra calories/day
- Frequent small meals





Intimate Partner Abuse

- Maternal mortality:
 - Medical conditions-cardiac, HTN, hemorrhage, sepsis
 - Drug overdose
 - Suicide
 - Homicide: "The risk of becoming a victim of attempted or successful homicide is 3 times more frequent in pregnancy"

Ma	e of Birth: Place of Birth: rital Status: S M D W Sep Migrant or Permanent: Cohabitating Pregnant: Yes No nic Origin: Number of months in pregnancy:				
	Does your husband/boyfriend/companion use alcohol or drugs? Yes No If the answer is yes, does your husband/boyfriend/companion abuse you when he is drunk or using drugs? Yes No				
2.	During the last year, have you been physically abused (hit, kicked, pushed) by another person? Yes No				
	If the answer is Yes, the person who abused you was: HUSBAND BOY FRIEND COMPANION EX-HUSBAND RELATIVE OTHER				
Total number of occasions: When was the last time you were hurt?					
	Mark on the drawing the areas injured. Next to each injury mark the appropriate scale:				
	1=threats, including threats with weapons 2=slaps, pushes, bruises or injuries with prolonged color, pulling the hair 3=punching, kicking, bruises or injuries with prolonged color, attempted strangulation 4=hitting, severe bruises, burns, broken bones 5=head injuries, internal injuries, broken bones 6=injuries with the use of weapons				
3.	Have you been forced to have sexual relations in the last year? Yes No If the answer is yes, with whom? HUSBAND BOY FRIEND COMPANION EX-HUSBAND RELATIVE OTHER				
	Total number of occasions When was the list time you were forced?				
4.	Are you afraid of your husband/boyfriend/companion/relative, or other person threatening you?				

Other Self-Care Measures 16



Migrant Women 18

- Women are increasingly migrating for work
- Department of Labor National Ag Workers
 Survey—24%
 women

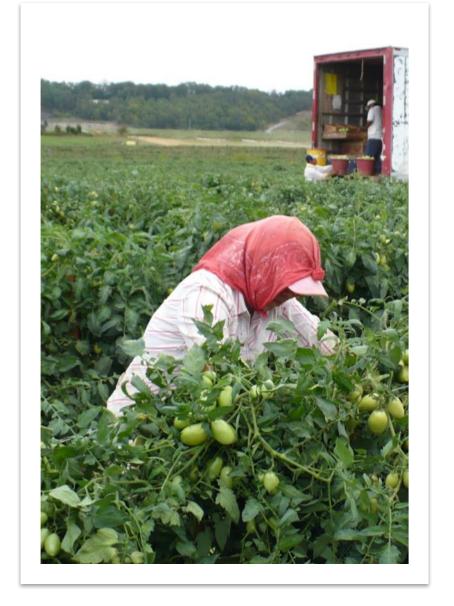


Pregnancy in Migrant Women 19

Limited research, but majority are Mexican so we extrapolate

- "Hispanic paradox"

 - Outcomes worsen with length of residence in US
- † Breastfeeding
- † risk of gestational diabetes among Latinas—indication for prenatal screening



Mobility as a risk factor

- Rapid increase in immigrant population is outpacing availability of appropriate services in many locations—various studies
- 77% uninsured—NAWS
- Other factors: access to good nutrition, social isolation



Barriers for Migrant Women 14,20

- Isolation in rural areas
 - Lack of access to health care
 - Lack of access to telephone
 - Separation from support system
- Cultural barriers
 - Male dominance in families & relationships
- Economic dependence
- Stresses related to well-being of children

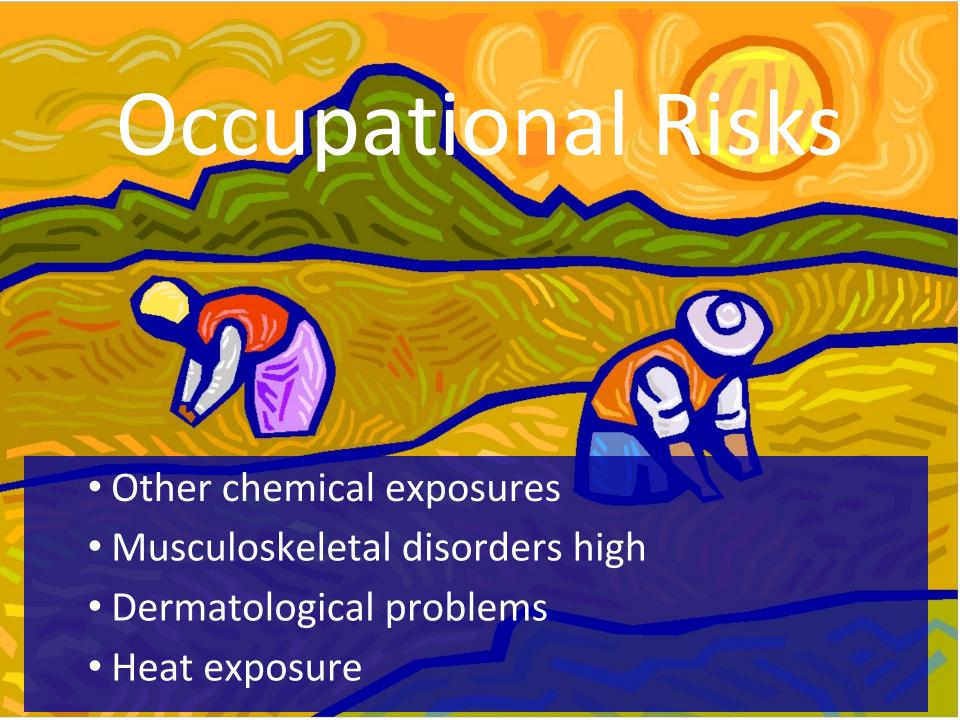


Occupational risks 16

Pesticide exposure (work & home)



- On the job exposure
- Documented risk of exposure to household members
- Toxicity/teratogenicity
 of pesticides often not
 known

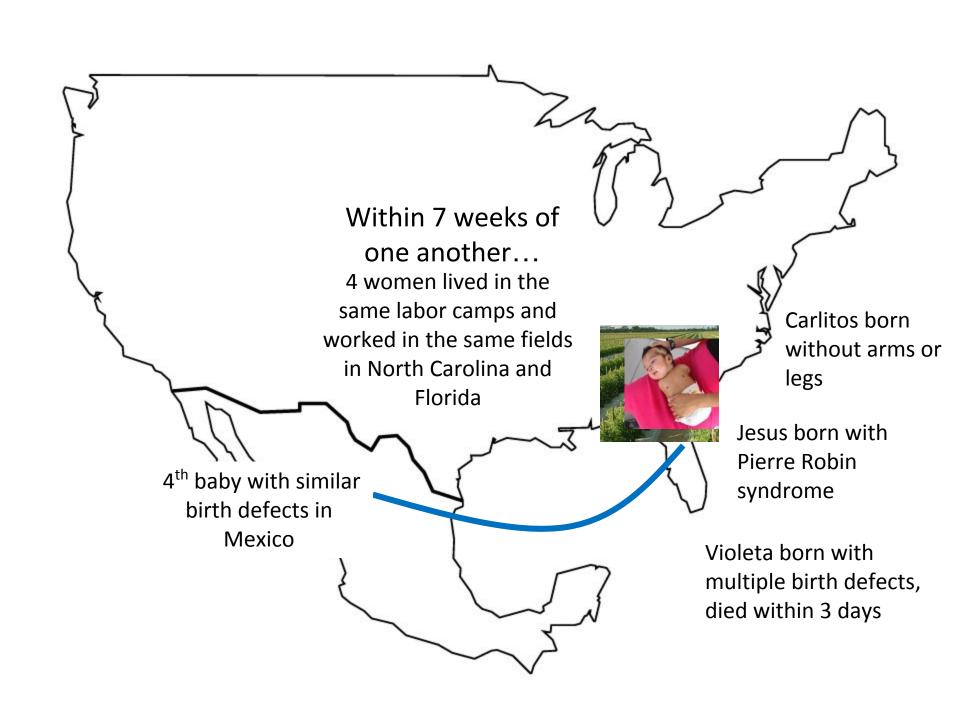




Reallives

Agmart and Carlitos²¹



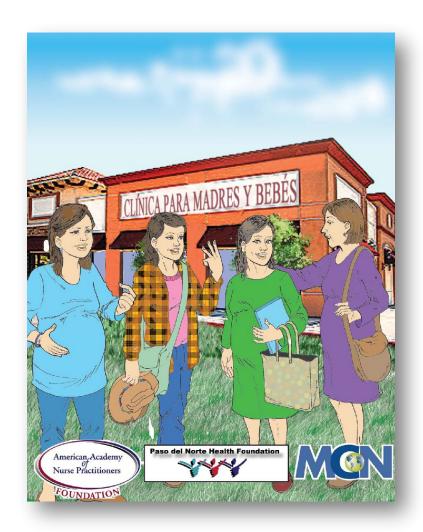


Resources...





Comic book: pregnancy & pesticides 23



Pregnancy patient education resources

Other resources:

- <u>Text4Baby</u>: A free service that provides health education by text to pregnant women and new mothers in English and Spanish. <u>www.text4baby.org</u>.
- Rural Women's Health Project (<u>www.rwhp.org</u>) pregnancy fotonovelas
- Teach with Stories Prenatal Care—fotonovela series (<u>www.augercommunications.com</u>)
- Pesticides & pregnancy handouts (<u>www1.wfubmc.edu/fam_med/Research/Educational</u>)
- Giving Birth at the Hospital—Eng/Span flipchart (<u>www.migranthealth.org/materials_and_tools/</u>)
- HRSA Find a Health Center <u>http://findahealthcenter.hrsa.gov/</u>
- Hesperian Health Guides (<u>www.hesperian.org</u>)

Questions?

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