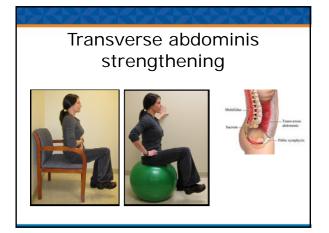


# PT Interventions – Back Pain

- Symmetrical body movements
- Small ranges of motion
- "Baby Hugger" belts
- Isometric exercises around pelvis and stabilization
- · Body mechanics

Boissonnault JS, Klenstinski JU, Pearcy K. The role of exercise in the management of pelvic girdle and low back pain in pregnancy: A systematic review of the literature. JOWHPT, 2012.









# Tips for Managing Back Pain

- Posture & Body Mechanics
  - Avoid carrying objects on one hip (assymmetry)
  - Avoid crossing legs
  - Carry loads in middle
  - Change positions frequently
  - Get muscles "ready" to move
  - Support lumbar spine
  - Watch body mechanics with ADL's

# Tips for Managing Back Pain

- Dealing with pain
  - Have partner massage back
  - Use moist heat for 30 min. at a time or less
  - Ice the area for 10 min. 4-5times/day (especially irritated SI)

#### Suggestions for Healthy Exercise

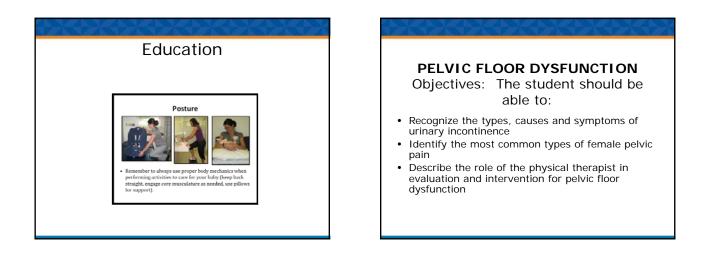
- Mild to moderate exercise at least 3 times/week
- Modify INTENSITY of exercise not to exhaustion
- ACOG\* recommends using Borg scale of perceived exertion level: 12 – 14 (somewhat hard)
- \*American College of Obstetrics & Gynecology

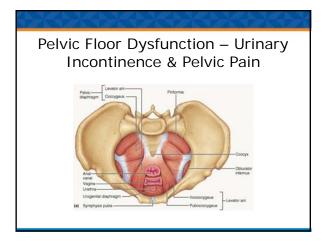
#### Exercise Precautions During Pregnancy

- Do not start a NEW, aggressive routine
- Avoid extremes of "range of motion"
- Avoid excessive stress to joints such as ankles, sacroiliac, pubic symphysis
- Be sure to replace fluids and calories (300kcal/day more)

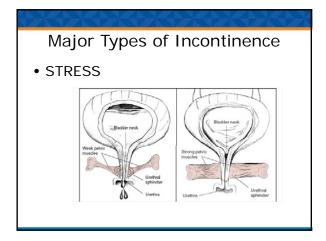
Physical activity and exercise during pregnancy and the postpartum period. Committee Opinion. American College of Obstetricians and Gynecologists. Number 650. December 2015.

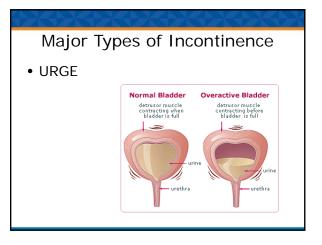
# Postpartum Time frame When to start exercise? Need medical clearance? Areas to rehabilitate





Туре	Possible Mechanism	Symptoms
Stress Incontinence	Urethral hypermobility Pelvic floor damage Chronic stress to pelvic floor	Leaking with cough, laugh, sneeze, movements
Urge Incontinence	Detrusor muscle instability	Leaking with "trigger" (key in door, water sounds) Frequent urination
Mixed Incontinence	Combined mechanisms of stress and urge	Combined cues
Overflow Incontinence	Decreased contractility of detrusor muscle Urethral obstruction	Chronic dribbling of urine Urinary frequency



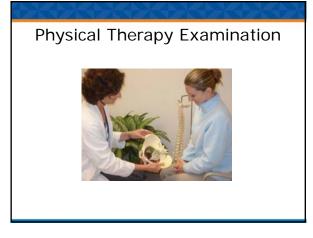


#### Prevalence of Urinary Incontinence

- Affects more than 13 million
   Americans
- 85% of these are women
- 2-16% of young, nulliparous women
- 30% of women over 65 years old
- 1 in 4 women with UI never discussed with provider
- Prostate gland enlargement and surgery may pose risk

#### Documented Risk Factors Associated with Incontinence

- Immobility
- Diminished cognition
- Medications
- Smoking
- Fecal impaction
- Low fluid
- intake/dehydration
- Environmental barriers
- High impact physical activities
- Diabetes
- Stroke
- Estrogen depletion
- Pelvic muscle weakness
- Pregnancy, labor, delivery

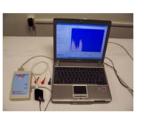


# Physical Therapy Examination

- Modified pelvic exam to isolate pelvic floor muscles
- Coach on avoiding substitution of gluteal, abdominal and hip adductor muscles
- Test for pelvic floor muscle strength (0-5) and endurance (seconds)

#### **Biofeedback Assessment**

- EMG electrodes
- Prompt patient to perform contraction and relaxation of the pelvic floor
- Quick flicks
   Baseline work/rest session to calculate work and rest averages in microvolts

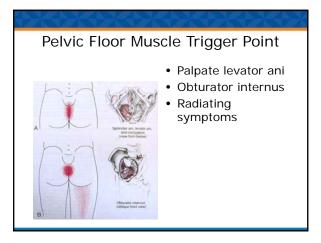


# Interventions

- Home program of pelvic floor muscle exercises (Kegels)
- Functional Kegels
- Healthy bladder habits
- Urge suppression drill

# Pelvic Pain – Acute vs. Chronic

- CHRONIC PELVIC PAIN = pain in the pelvic area lasting for at least 6 months
- Recurrent pelvic pain = episodic ailments such as dysmenorrhea or dyspareunia
- Acute pelvic pain = pain lasting less than one month



### **Pelvic Pain Interventions**

- Stretching
- Pelvic floor muscle exercise (increase circulation; downtrain)
- Desensitization (dilators)
- Skin care
- Relaxation



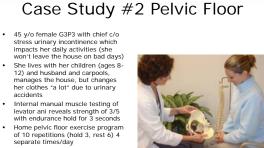
#### References

- Figuers, C. Physical therapy management of pelvic floor dysfunction. In <u>Women's</u> <u>Health Care in Physical Therapy: Principles and Practices for Rehabilitation</u> <u>Professionals</u>, Glenn Irion and Jean Irion (eds), Philadelphia, PA. Lippincott Williams & Wilkins. 2009.
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- Nygaard I. Idiopathic Urgency Urinary Incontinence. N Engl J Med 2010; 363: 1156-

# Case Study #1 Obstetrics

- 32 y/o female, 28 weeks IUP presents for evaluation and research and the present of "back pain". She works F/T as a lab research assistant. She c/o pain in right buttock/side, difficulty with sit to stand, pain in prolonged sitting, stair climbing
   Palpation, pain provocation tests, gait analysis suggest hypermobility of right sacrollac joint and unstable pelvic girdle. Asymetrical movements (e.g. stairs) reproduce pain
- pain
- Treatment consisted of instruction in Ireatment consisted of instruction home exercise program of pelvic girdle stabilization exercises, education on body mechanics, wearing maternity binder when active or at work to prevent pain





Patient education including healthy bladder habits, avoiding val salva



