# Sexual Health and Spinal Cord Injury

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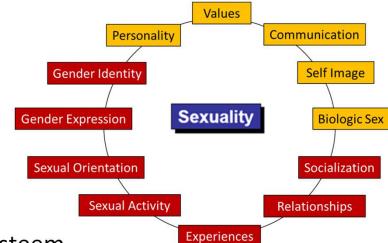
## #1 – Sex vs Sexuality

There's a lot more than intercourse to consider.

### Sexuality & Disability

#### People may experience:

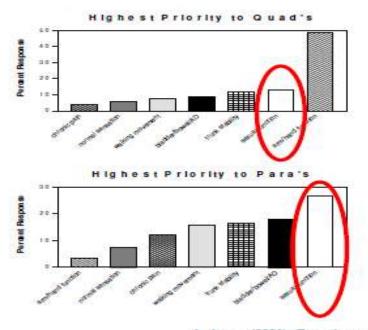
- Changes in physiology, body image, and self esteem
- Role changes
- Misinformation about sexual implications of disease/disability
- Misconceptions of partners expectations
- Unrealistic goals for sexual performance



### #1 – Sex vs Sexuality

### #2 – Sex is important

And often overlooked.

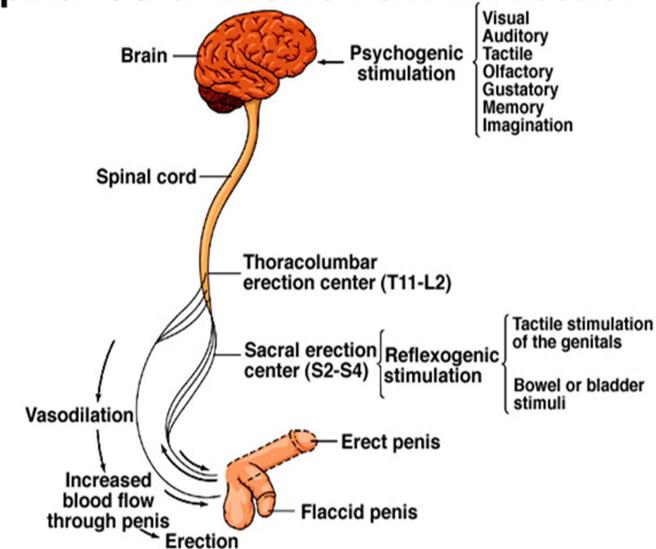


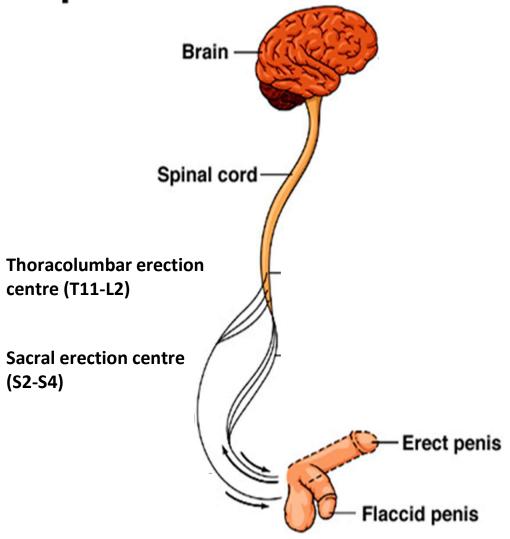
Anderson (2004). Targeting recovery: priorities of the spinal cord-injured population. J. Neurotrauma 21(10):1371-1383.

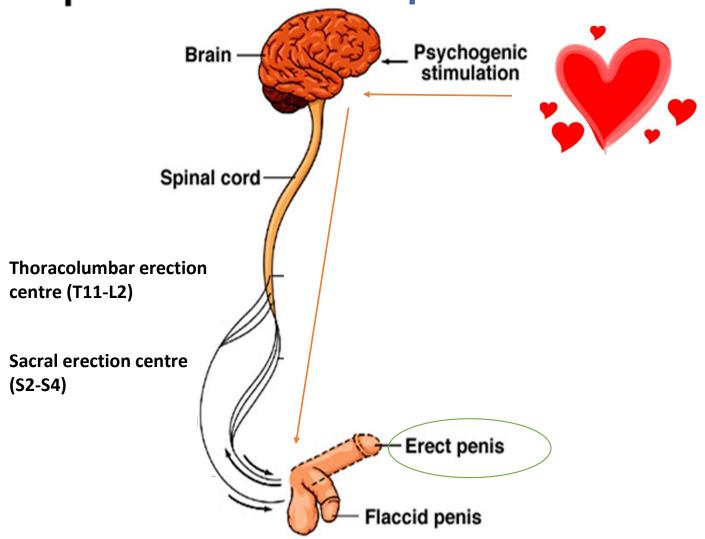
#1 – Sex vs Sexuality #2 – Sex is Important

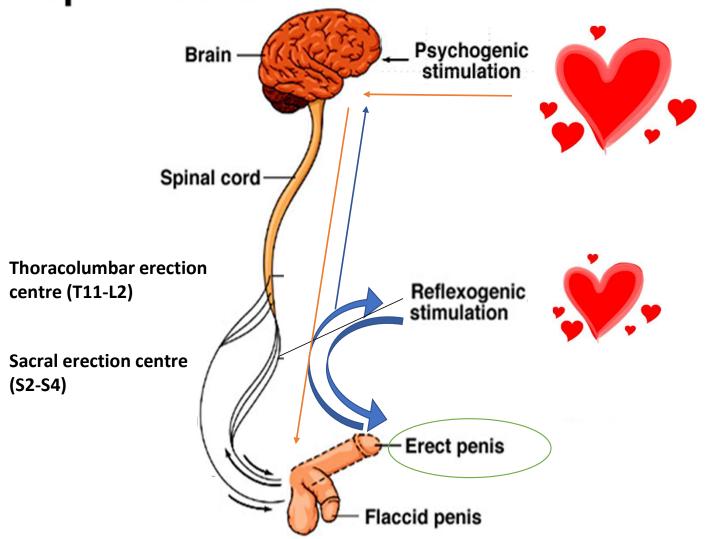
# #3 – Neuroanatomy & Physiology

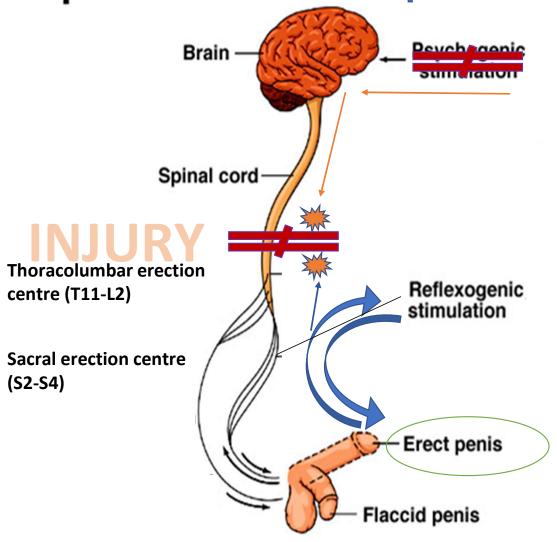
The basics of how things work and what to expect with a given condition

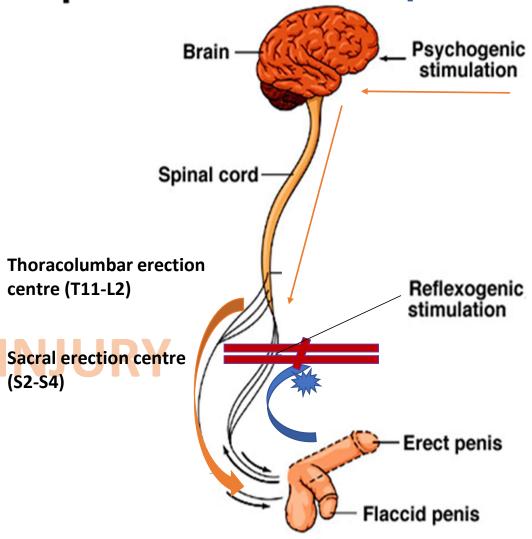












### Ability to achieve erection\*

	Complete	Incomplete
UMN	95%	90%
LMN	26%	>90%

<sup>\*</sup>With aides to improve/maintain tumescence

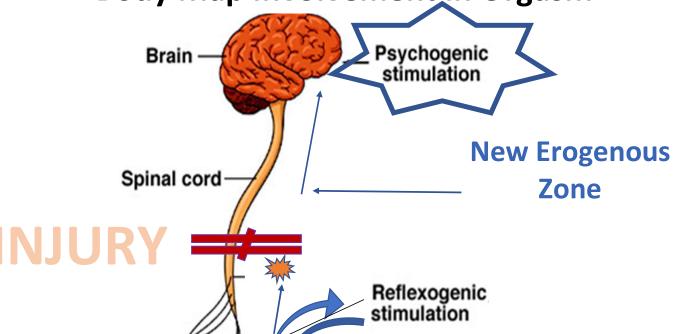
### Ejaculation ≠ Orgasm

- Ejaculation often impaired in SCI
  - 20% all SCI retain some ability to ejaculate
    - Increased with assistive technologies
  - Requires intact sympathetic, parasympathetic and somatic nerve connections
  - Treatment options available for fertility

### Orgasm

- Cortical experience occurring in the limbic system
  - Anterior spinothalamic tracts and pyramidal tracts
    - Cold sensation and VAC indicate intact pathways
- Brain can work independently from injury
  - New Body map
  - Demarcation (ZPP) may become the new erogenous zone
    - Sexual neuroplasticity

#### **Body Map Involvement in Orgasm**



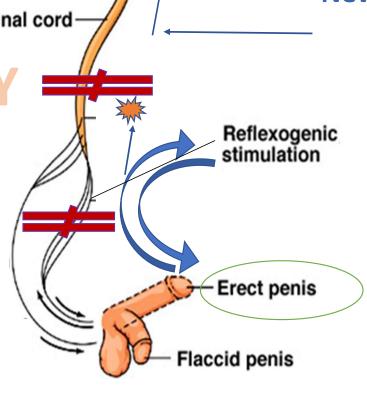
### Orgasm

Post SCI

• Female: 22-60%

• Male: 5-40%

• Incomplete > complete

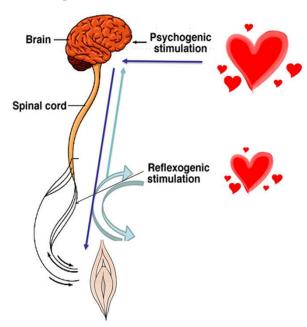


## #3 – Anatomy continued...

Female

### Female physiologic changes after SCI

- Excitement and arousal
  - Reflexogenic and Psychogenic
  - Female lubrication requires intact innervation (and estrogen levels)
    - Complete lesions T10-12 lack lubrication
      - Water soluble > oil
- Accommodation



### Female Fertility after SCI

- Not impacted by spinal cord injury
  - \*Caveat:
    - Spinal shock may temporarily interrupt menstrual cycle
      - Resume 2-8 months after injury
- Contraception
  - Considerations / choices



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### Pregnancy after SCI

- Special considerations:
  - Medications
  - Bladder/bowel
  - Skin / DVT
  - Respiratory, Autonomic dysreflexia
  - Breastfeeding
- Labour & Delivery
  - AD vs pre-eclampsia
- Mobility / Accessibility
- Post-partum depression more common in SCI populations



New Mobility Magazine 2016/12/wheelchair-accessible-tipsfirst-time-parent/

# #4 – There are many options

There's almost always something that can be done.

### A Multidisciplinary Approach to Sexual and Fertility Rehabilitation: The Sexual Rehabilitation Framework

Stacy Elliott, BA, MD,<sup>1-3</sup> Shea Hocaloski RN, BtechN,<sup>3</sup> and Marie Carlson, RN, BSN, CRN(C)<sup>3</sup>

<sup>1</sup>Departments of Psychiatry and Urologic Sciences, Faculty of Medicine, University of British Columbia, Vancouver, BC, Canada; <sup>2</sup>International Collaboration On Repair Discoveries (ICORD), Vancouver, BC, Canada; <sup>3</sup>GF Strong Rehabilitation Centre, and the Blusson Spinal Cord Centre, Vancouver Coastal Health, Vancouver, BC, Canada

- 1. Sexual drive/interest
- 2. Sexual function
- 3. Fertility/contraception
- 4. Medical consequences
- 5. Bowel/bladder issues
- 6. Motor/sensory influences
- 7. Sexual self-view
- 8. Partnership

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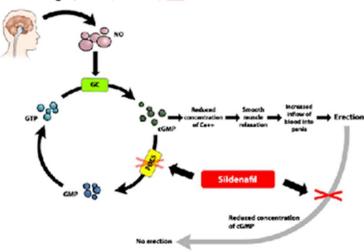
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- 1. Sexual drive/interest
- 2. Sexual function

#### **Erectile Dysfunction**



Viagra, Cialis, Levitra, etc





The Elator



- 1. Sexual drive/interest
- 2. Sexual function
- 3. Fertility/contraception
- 4. Medical consequences
  - Factors associated with the condition
    - Pain, Fatigue, Spasm, Autonomic dysfunction
    - Etc...
  - Comorbid conditions

#### **Testosterone**

- 43% with SCI low serum total T
  - Risk factors:
    - AIS A / B > C / D
    - Narcotic use
    - Obese, diabetes, metabolic syndrome
    - Untreated sleep apnea
    - Brain injury

#### Prevalence of Testosterone Deficiency After Spinal Cord Injury

Anita Durga, DO, Farhad Sepahpanah, MD, Mary Regozzi, RN, James Hastings, PhD, Deborah A. Crane, MD, MPH

#### ORIGINAL ARTICLE

Prevalence of androgen deficiency in chronic spinal cord injury patients suffering from erectile dysfunction

M Behnaz<sup>1,2</sup>, Z Majd<sup>1</sup>, M Radfar<sup>1</sup>, H Ajami<sup>3</sup>, M Qorbani<sup>4</sup> and A Kokab<sup>2,5</sup>

- Screen testosterone in SCI with ED
  - Remember not to give exogenous T if wanting to procreate

### Bowel, Bladder, and Sex

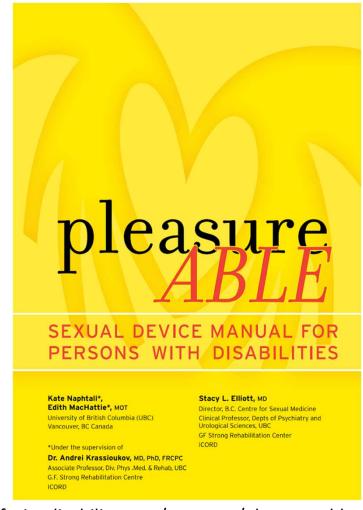
- Goals:
  - Maintain continence
  - Avoid UTI / autonomic dysreflexia
- Considerations:
  - Bowel routine/timing
  - Catheter use:
    - Remove
    - Clamp
    - Tape
    - Cover
- Planning



https://scisexualhealth.ca

### Impaired Mobility

- Special consideration
  - Equipment
  - OT assessment
  - Creativity
- Disabilities Health Research Network (BC)



https://facingdisability.com/resource/pleasure-ablesexual-device-manual-for-persons-with-disabilities



#### **Body Bouncer**













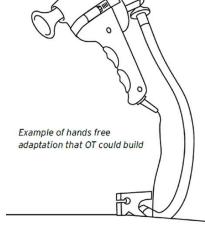






Thigh sling





Sexual mobility enhancing products designed to improve intimacy for the physically challenged.



Shown with optional cushion.

- 1. Sexual drive/interest
- 2. Sexual function
- 3. Fertility/contraception
- 4. Medical consequences
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- 7. Sexual self-view
- 8. Partnership

### #5 – Start the Conversation

### What can healthcare providers do?



• Provide information

 Be aware and respectful of patients/clients' sexual choices and orientation

Participate in continuing education

#### Glenrose Sexual Health Service

- Education and counseling to address sexuality concerns related to injury, illness or disability.
- Services available to people of any age, sexual orientation or relationship status as well as family members/caregivers as required.
- Professional education/consultation provided upon request.
- Multidisciplinary Team (Nursing, OT, Psychology and Social work).
- Bimonthly wheelchair accessible gynecology clinic.
- Urology consultation available to address complex ED and fertility.

#### Glenrose Sexual Health Service - Referrals

- Current or former GRH patients can self-refer or be referred by any member of their healthcare team.
- Non-GRH patients require a referral from a healthcare professional.
- Referrals can be submitted via fax to 780-735-7923 or via connect care using the Ambulatory Referral to Rehab option.
- Additional information and referral forms can be found on the Alberta Referrals Directory.
- For more information phone the Sexual Health Service intake line at 780-735-6290

#### **Foothills Medical Centre**

# Spinal Cord Injury Sexual Health Clinic



Everyone has the right to sexual health education and information as part of overall health.

~ World Health Organization

#### How to make a referral to the Foothills Medical Centre Spinal Cord Injury Sexual Health Clinic:

- Patients can self-refer or be referred by a member of their treatment team.
- External referrals can be made by any physician or nurse practitioner.

#### How to contact us

Phone: 403-944-4226

Fax: 403 283-2526

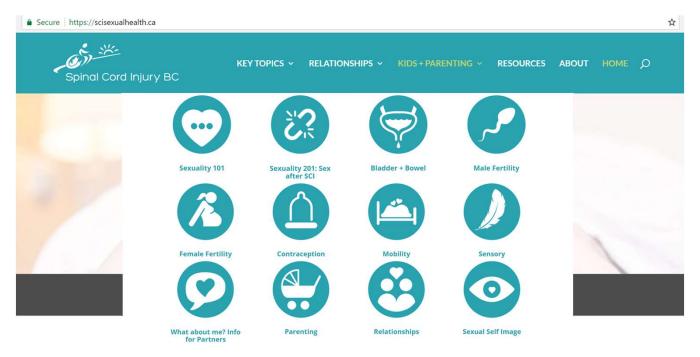
Please leave a message and a clinician with the Sexual Health Clinic will return your call.

#### Sexual Health Allied Health Roles\*

- Social Worker relationships, safety, community resources, funding
- Psychologist relationships, mental health/wellbeing
- Occupational Therapist equipment needs assessment, upper extremity splints/braces, custom modifications
- Physiotherapist lower extremity bracing/splints, exercises / strengthening program
  - Pelvic floor physiotherapist (special training, more \$\$)
- Nursing bowel and bladder, wound care, education re: anatomy/physiology

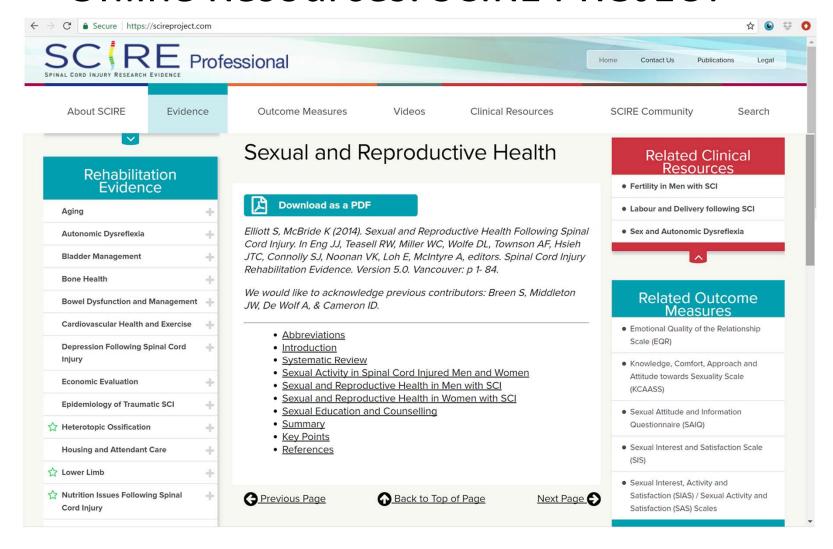
\*Only a glimpse of their involvement, each allied health member does so much more!

#### Online Resources: Spinal Cord Injury BC

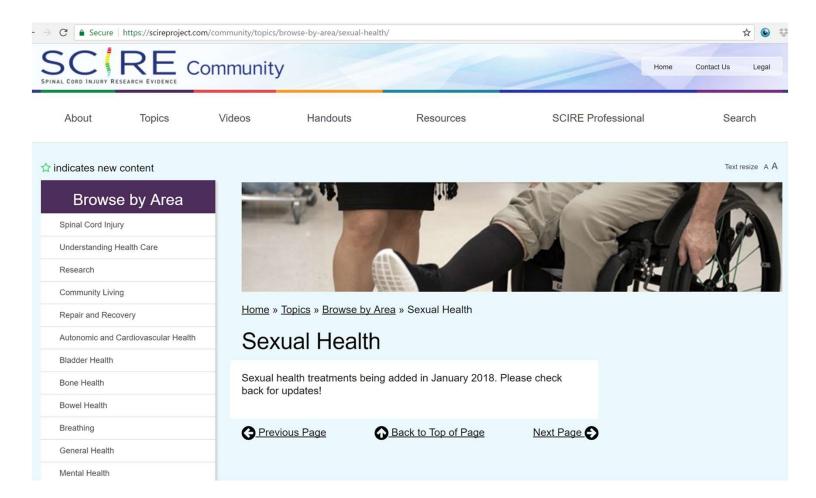


https://scisexualhealth.ca

#### Online Resources: SCIRE PROJECT



#### **Online Resources: SCIRE PROJECT**



### Abuse – What to do

- 1. Ensure safety
- 2. Provide resources

#### Acutely (within 96hrs of assault)

- Calgary Sexual Assault Response Team (CSART)
  - Sheldon Chumir
  - 403-955-6030

#### >4 days after:

- Sexual Abuse Network
  - 403-237-5888
  - 1-877-237-5888 toll free in Alberta
- Domestic or relationship abuse
  - 403-234-7233 (SAFE)
  - 1-866-606-7233 toll free in Alberta



#### Connectnetwork.ca

Family & Sexual Abuse Network



#### Counselling

- Individual
  - Up to 18 sessions free
- Group counselling

### 5 Keys of SCI Sexual Health

- 1. Sex vs Sexuality
- 2. Sex is Important
  - i. QoL
- 3. Neuroanatomy & Physiology
  - i. Psychogenic (T11-L2) & Reflexogenic (S2-S4) erections
  - ii. Women
- 4. There are many options
  - i. Sexual Rehabilitation Framework (8 key components)
- 5. Start the conversation