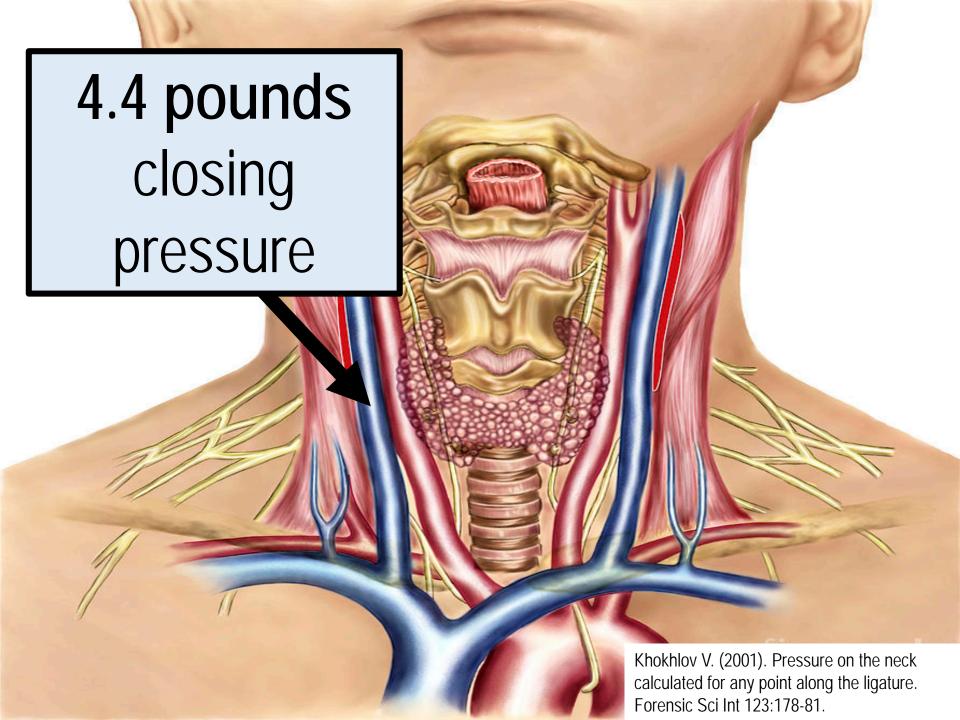
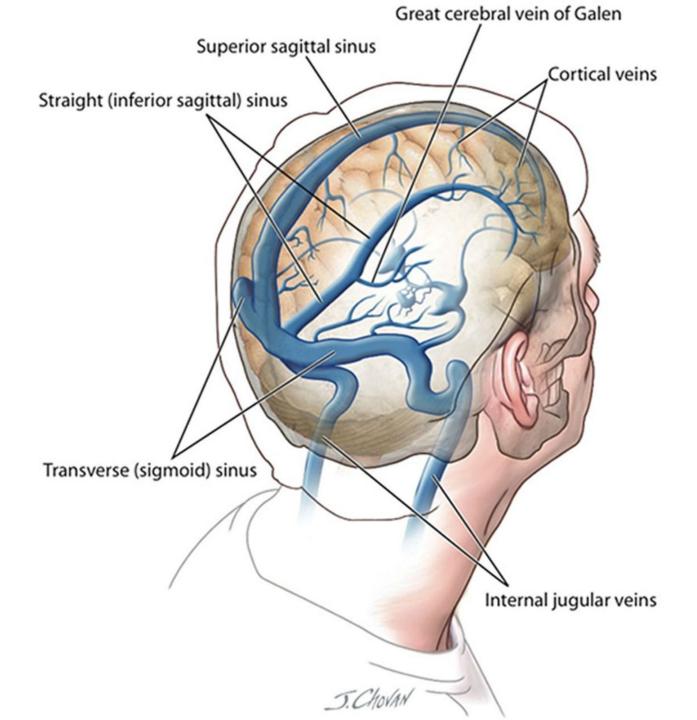
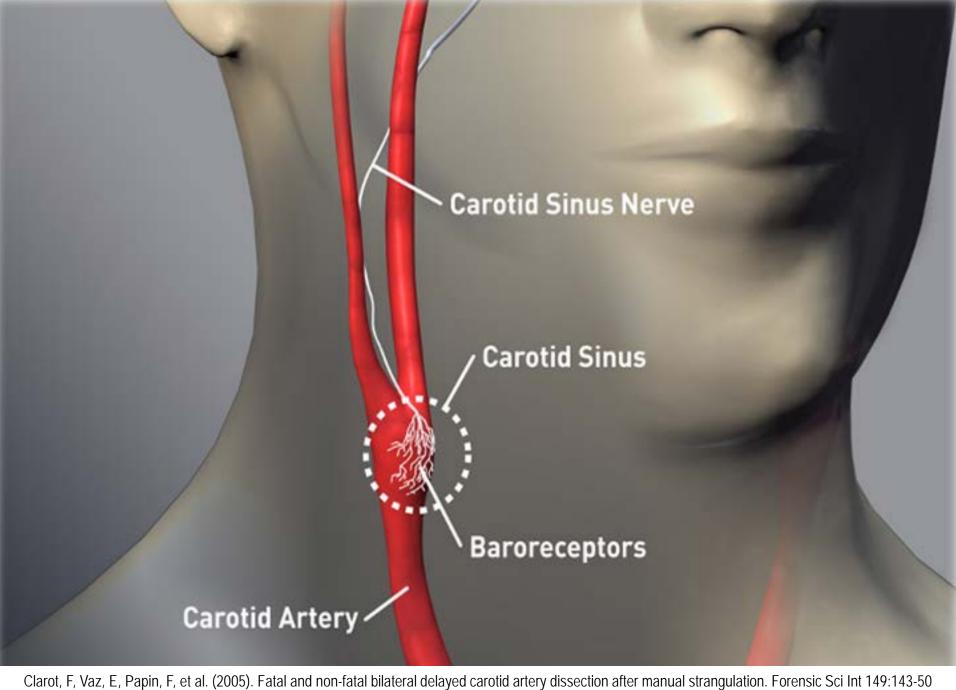


### 4.4 pounds

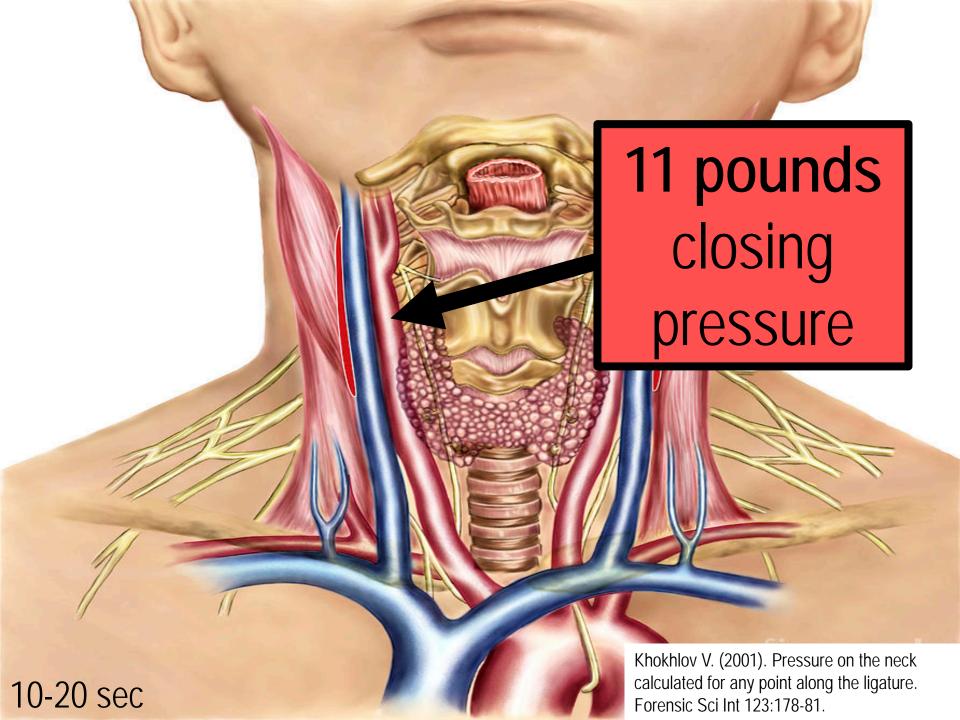






Clarot, F, Vaz, E, Papin, F, et al. (2005). Fatal and non-fatal bilateral delayed carotid artery dissection after manual strangulation. Forensic Sci Int 149:143-50 Iserson K. (1984). Strangulation. A review of ligature, manual, and postural neck compression injuries. Ann Emerg Med.13:179-85.

### 11 pounds



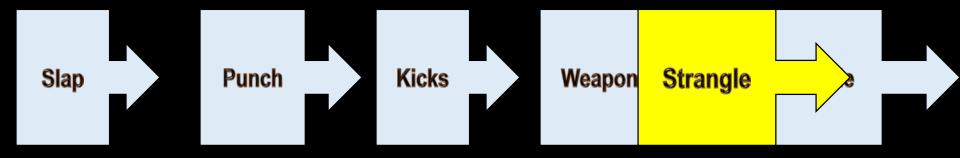




- Identifiable brain infarction each time a strangulation occurs.
- Repeated strangulation linked to stroke and Parkinson's disease.



#### Continuum of Intimate Partner Violence



## 7x more likely to die

#### 10% of all violent deaths in the US

25% of women killed by an intimate partner

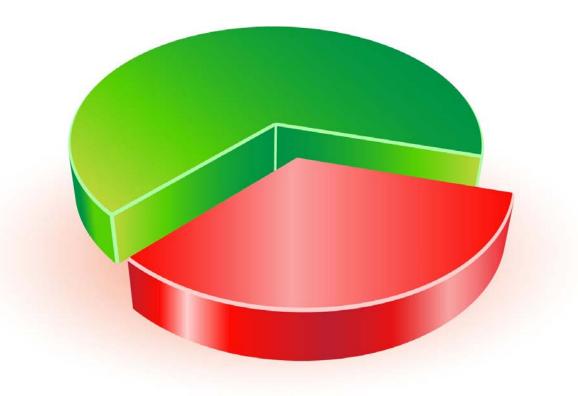
## Prevalence

We don't really know...

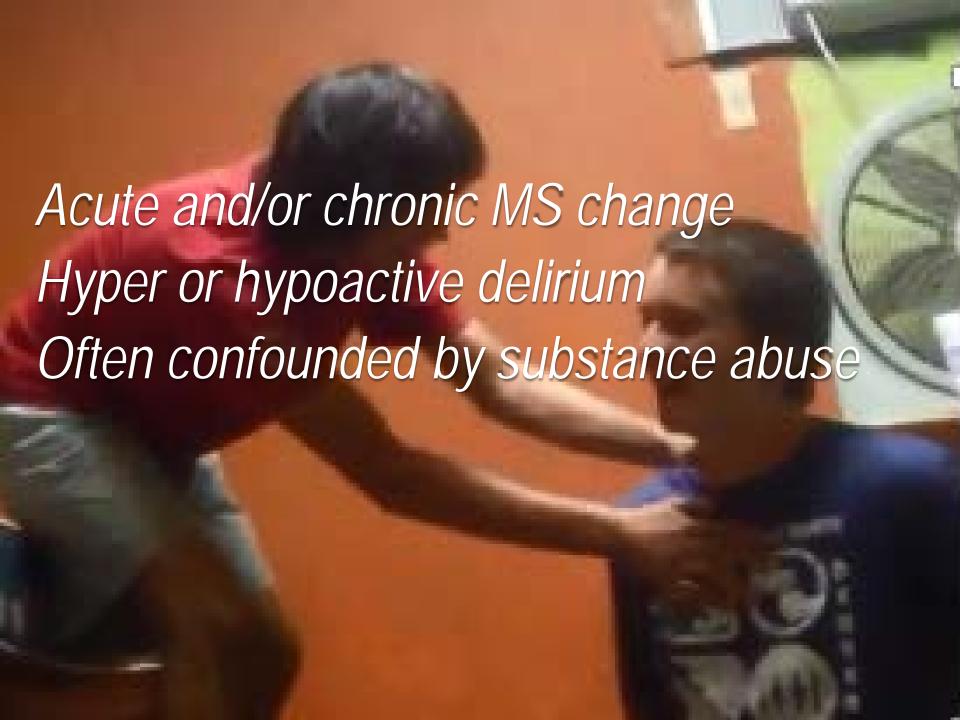
- -39% report it to police
- -3% seek medical attention



#### 35% had "injury too minor to photograph"



#### You've missed them



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# Why do I care?





Clinical Scenario	Recommended Imaging Modality	Alternative Imaging Modality
Manual strangulation with no loss of consciousness and no physical evidence of force to the neck	None	None
Manual strangulation with no loss of consciousness but with voice changes	MRI with contrast	Fiberoptic laryngoscopy
Manual strangulation with loss of consciousness and/or physical evidence of force to the neck	MRI without contrast	CT with intravenous contrast
Incomplete near-hanging with intact consciousness and bilateral neurologic function	MRI without contrast	CT with intravenous contrast
Accidental strangulation with ligature caught in moving machinery but with intact consciousness and bilateral neurologic function	MRI without contrast	CT with intravenous contrast
Any form of strangulation with persistent unconsciousness	4-vessel cranial-cervical CT angiogram	MRI without contrast
Any form of strangulation with intact consciousness but with unilateral neurologic findings	4-vessel cranial-cervical CT angiogram	Doppler ultrasound of the carotid arteries or 4-vessel selective angiography



# Strangulation indicators are rarely found during the primary assessment











McClane G, Strack G, Hawley D. (2001). A review of 300 attempted strangulation cases Part II: Clinical evaluation of the surviving victim. J Em Med 21:311-5. Stanley, R, Hanson, D. (1983). Manual strangulation injuries of the larynx. Arch Otolaryngol. 109(5):344–7.













### What can I do?







## Be a good neighbor



518.432.7865

# NYSCADV NEW YORK STATE COALITION AGAINST DOMESTIC VIOLENCE

518-482-5465

### National Domestic Violence Hotline: -1-800-799-7233

Rape, Abuse and Incest National Network (RAINN):

-1-800-656-HOPE

#### Referrals

- Be yourself and know your limitations
- Use resources

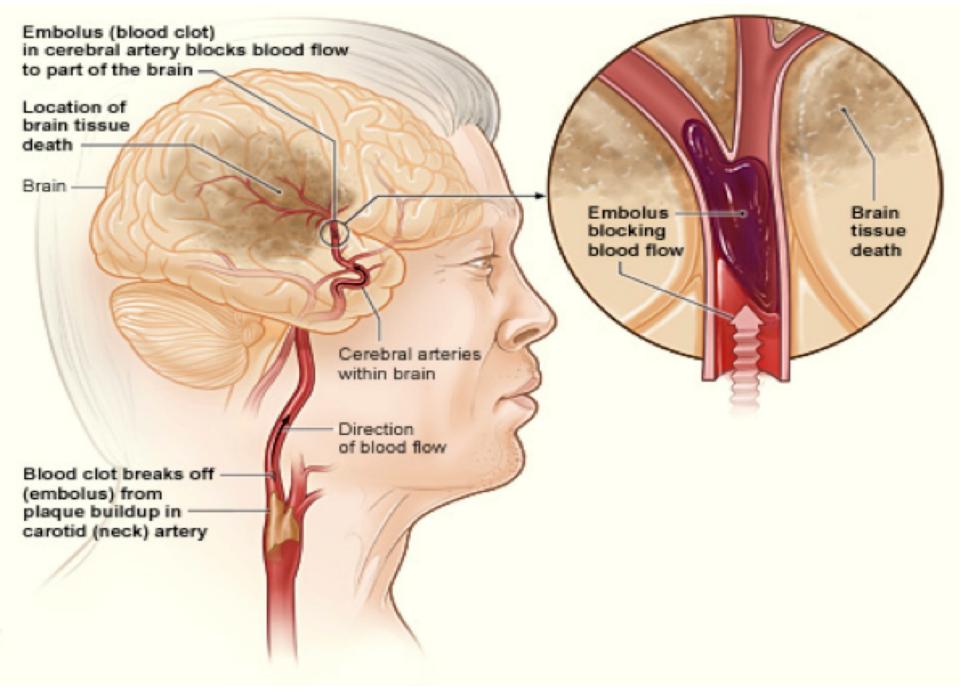
1-800-863-9909

- There are organizations in the community that can help you?
- Free and confidential.
- 24-hour toll-free hotlines staffed by people who care.

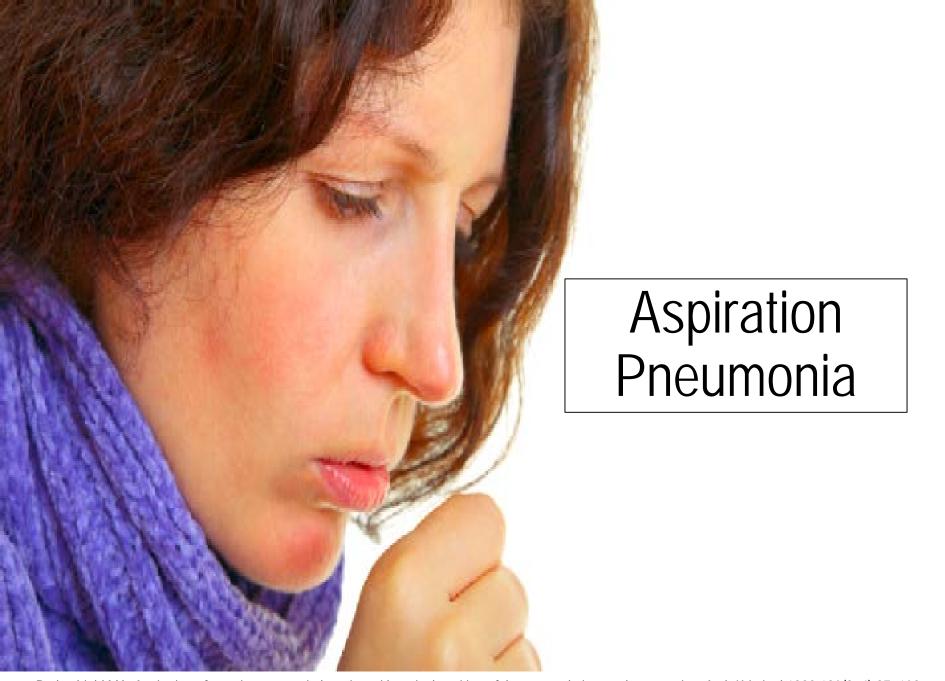


#### Thank You!

Dan Batsie danbatsie@gmail.com @Danbatsie



Kiani S, Simes D. (2000). Delayed bilateral internal carotid artery thrombosis following accidental strangulation. Br J Anaesth. 84:521-4.



Rothschield MA. Aspiration of gastric contents in hanging with typical position of the strangulation cord suspension. Arch Kriminol 1992;190(3–4):97–102. Grellner W. The Value of various lung changes in death by strangulation. Arch Krimino 1995;196(1–2):38–45.



Wilbur L, Higley, M, Hatfield, J, et al. (2001). Violence recognition, management, and prevention: Survey results of women who have been strangled while in an abusive relationship. J of Emergency Medicine, 21(3): 297-302

