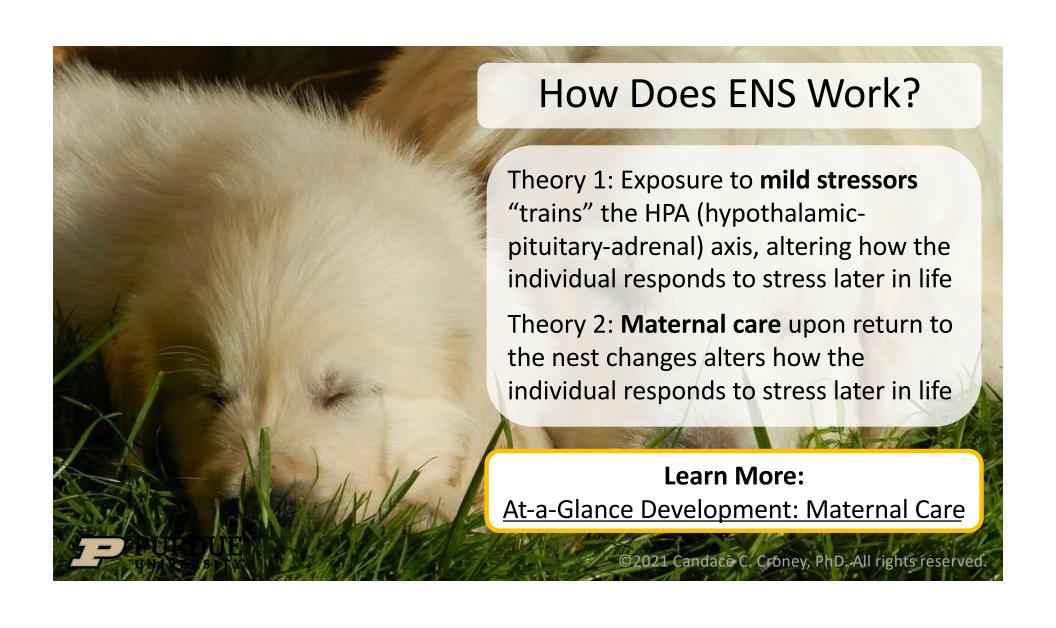
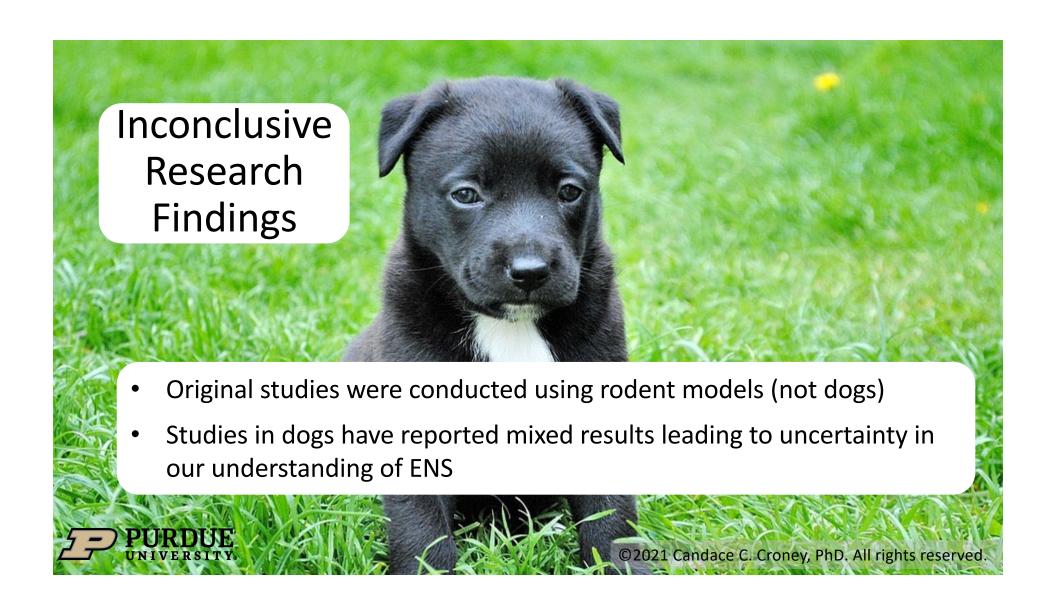


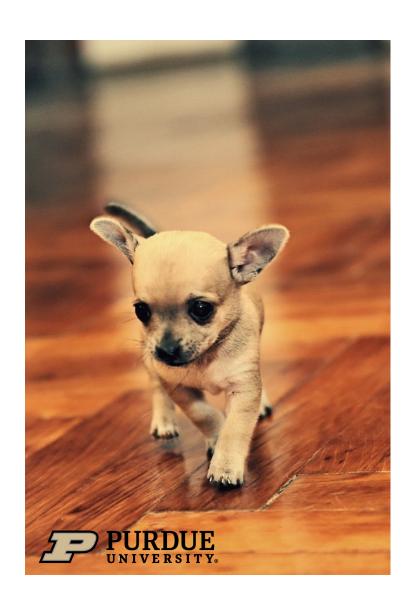


- Brief exposure of very young (neonatal) puppies to mild stressors for short periods
- Is thought to improve their response to stress later in life
- May be as simple as picking puppies up and petting them from head to tail before returning them to the mother and litter









When to Provide ENS?

- Begin at 3 days of age
- Continue for at least 10 days
- Once a day
- A few seconds per each exposure

Learn More:

At-a-Glance Development: Stages

Examples of ENS Stressors

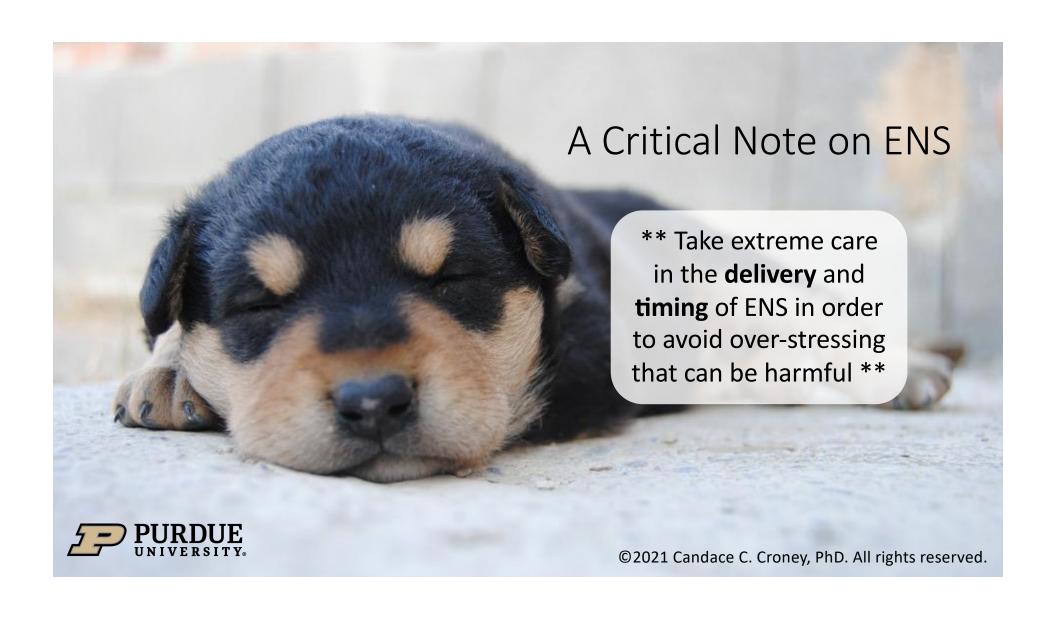
- Different positions
- Gentle touches
- Cool temperatures

Note:

More research is needed to identify specific protocol parameters (e.g., length of exposure, total exposures, type of exposure)









- Decreased fear
- Decreased stress with handling and restraint
- Enhanced learning
- Stress resistance
- Improved emotional development







Who Benefits from ENS?

ENS may be particularly beneficial to puppies with otherwise limited early tactile stimulation

Learn More:

- At-a-Glance Development Application
- At-a-Glance Developmental Stages
- At-a-Glance Development: Maternal Stress
- At-a-Glance Development: Maternal Care
- <u>Early Neurological Stimulation (ENS): Implications</u>
 <u>for canine welfare and management</u>
- Implications of weaning age for dog welfare



Authors:

Taylor Rezvani, PhD, Traci Shreyer, MA, Candace Croney, PhD