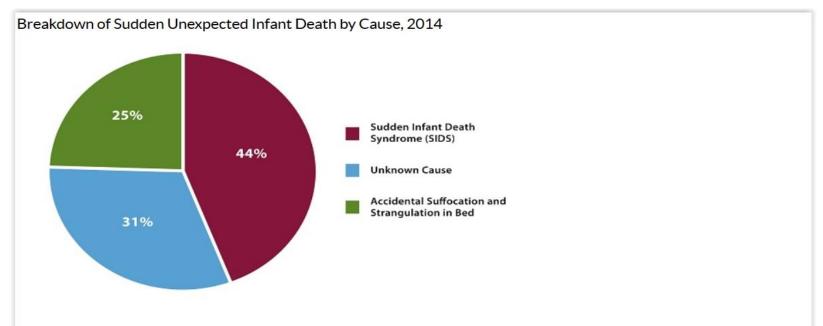
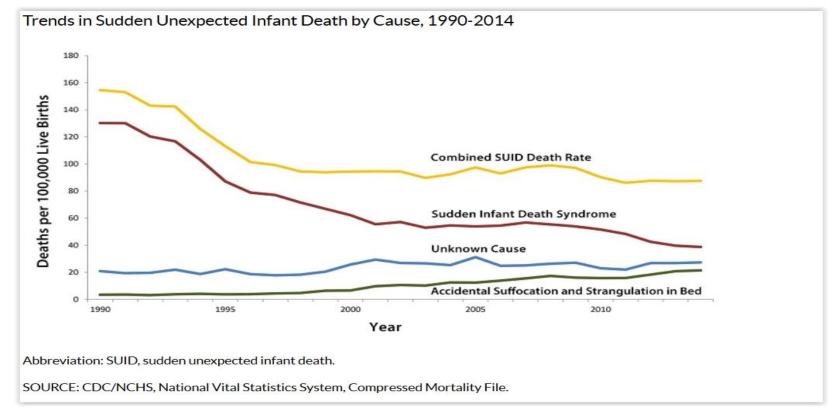
Addressing Sleep Related SIDS Risk Reduction in Norfolk

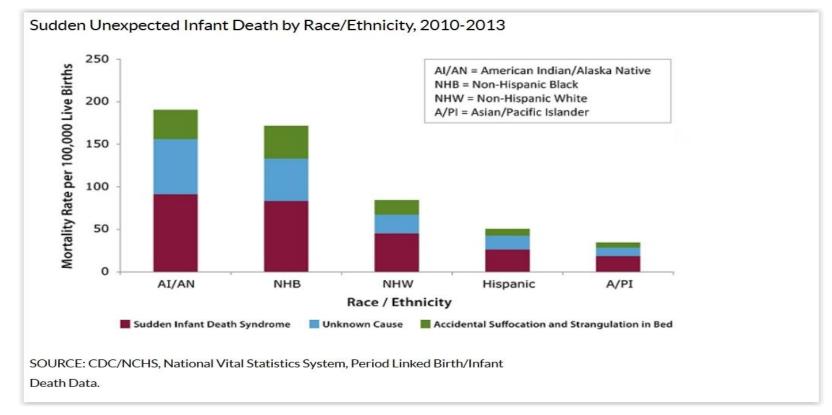
Andrew A. Ojeda SC-BI Summer Fellow 2016 Medical Master 2YR, Class of 2017 Julie L. Stoner, MS, MPH Brock Institute Associate Director



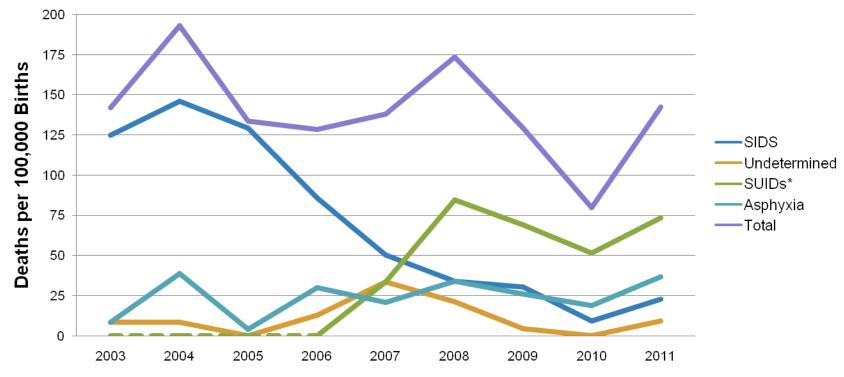
SOURCE: CDC/NCHS, National Vital Statistics System, Compressed Mortality File.

This chart shows the breakdown of sudden unexpected infant deaths by cause in 2014. 44% of cases were categorized as sudden infant death syndrome, followed by unknown cause (31%), and accidental suffocation and strangulation in bed (25%).





Total Death Rate for Selected Cause of Infant Death in Hampton Roads



Source: VDH, Office of the Chief Medical Examiner

^{*}SUIDs data was not reported until 2007

Currently the American Academy of Pediatrics (AAP) recommends following these guidelines to decrease the chances of SIDS:

- 1. Back to Sleep for every sleep.
- 2. Use a firm sleep surface.
- 3. Room-sharing without bed-sharing is recommended.
- Keep soft objects and loose bedding out of the crib to reduce the risk of SIDS, suffocation, entrapment, and strangulation.
- 5. Pregnant women should receive regular prenatal care.

- 6. Avoid smoke exposure during pregnancy and after birth.
- 7. Avoid alcohol and illicut drug use during pregnancy and after birth.
- 8. Breastfeeding is recommended.
- 9. Consider offering a pacifier at nap time and bed time.
- 10. Avoid overheating.
- 11. Health care professionals, staff in newborn nurseries and NICU nurseries, and child care providers should endorse the SIDS riskreduction recommendations from birth.

Ideal Sleeping Environment



*For more information on crib safety guidelines, contact the Consumer Product Safety Commission at 1-800-638-2772 or http://www.cpsc.gov.

SLEEP SAFE?



Far too many babies in Baltimore City diebefore their first birthday. Many of these deaths happen while the baby is sleeping. Don't put your baby at risk.

Put your baby to sleep safe.

SLEEP SAFE Alone. Back. Crib. NO EXCEPTIONS

SLEEP SAFE



Alone.

Most sleep-related deaths occur when babies sleep with an adult or another child, or in an adult bed or on a sofa. Share your room with your baby, but not your bed.



Back.

The safest position for a baby to sleep is on his or her back. Babies are not more likely to choke while laying on their backs. In fact, when a baby is on its stomach, anything spit up can block the air pipe and cause choking or breathing problems.



Crib.

Your baby's sleeping placeshould be clean and clear. No blankets, pillows, fluffy toys or stuffed animals. Just a tight-fitting sheet on a firm mattress.



No Exceptions.

Your baby should ALWAYS sleep safe: Alone. On his or her back. In a crib. Every night. Every nap. It's just not worth the risk of your baby dying.



HealthyBabiesBaltimore.com

S'more for Modiffy Sabics is an increvative effort to reduce infant mortality in Sabicmore City. It is appropried by the Office of Mayor Stophenic Revolings-Sake, Sabicmore City Modiff Department, The Pamily Longue of Sabicmore, and Carefrist Sluctores Sluctifields.

SIDS and Safe Sleep in Hampton Roads/Norfolk

- Yearly Report of Child Abuse and Neglect Fatalities in Hampton Roads (July 1, 2014 to June 30, 2015)
- Concluded that 21 of the 33 unfounded deaths were associated with unsafe sleeping environments.
- •Approximately 80% of the children who died were in the care of their biological mother, father or both.

Facing The Problem

- In order to determine where the disconnect between the medical knowledge base and the community is we must first inspect what our own faculty and staff know.
- ▶ Moon (2007) found that 78% of pediatricians and family physicians recognized supine as the recommended sleep position.

EVMS Survey

Distributed a 25 item, cross-sectional, anonymous online survey to identify knowledge deficits and attitudes concerning infant sleep environments.

A sample of 330 subjects responded. 97% of participants correctly reported cribs as being the safest place to sleep.

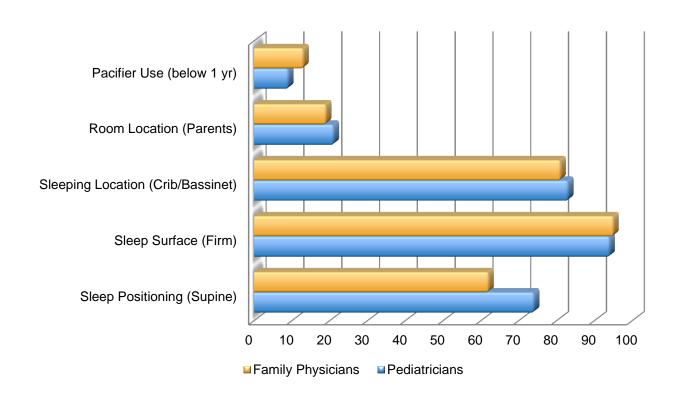
EVMS Survey Cont.

▶21% of participants cited incorrect sleep positioning and 30% reported placing their own children/grandchildren in a position other than supine.

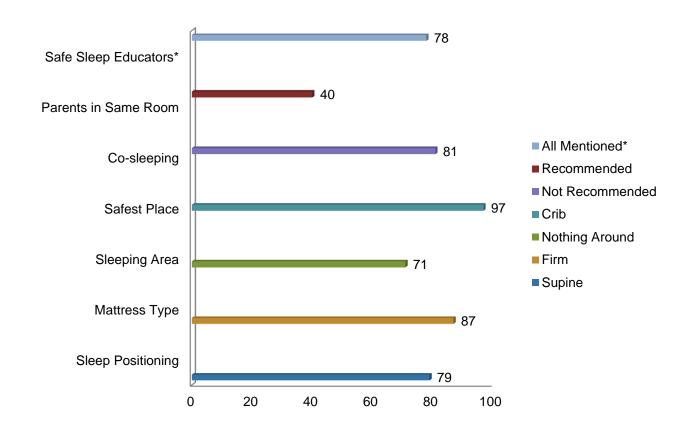
▶37% of respondent were unfamiliar with the 1992 safe sleep guidelines set by the AAP.

Statistically significant associations between respondents' familiarity with the 1992 AAP guidelines and several outcome variables related to infant safe sleep practices.

Physician Recommendations to Parents (Moon et. Al, 2007)



Percentage of Participants Who Identified Recommended Safe Sleep Practices at EVMS



Next Steps

- Despite ongoing educational efforts, a false understanding of infant sleep safety persists in the healthcare workforce.
- ⊳Future surveys for employees at local healthcare organizations will allow a better understanding of the knowledge-based disparities across physician and non-physician specialties as well as clinical and non-clinical care providers.

Plans for Future Data

PAfter the data set is collected, and a baseline is established, we can use that information to build a team of professionals who will focus the educational campaigns on the key specialties.

The aim is to increase safe sleep education for all physicians to effectively relay it to their patients.

Chart 1: Five steps to Improving Quality

Identify Target Areas for Improvement **Determine What Disseminate Results** Processes Can Be to Spur Broad Modified to Improve Quality Improvement Outcomes Develop and Track **Execute Effective** Performance and Strategies to **Outcomes** Improve Quality

Source: Analysis by Avalere Health and American Hospital Association.

Examples to Follow

- Baltimore's B'more for Healthy Babies Foundation
- ▶ http://healthybabiesbaltimore.com/our-initiatives/safe-sleep



Eunice Kennedy Shriver National Institute of Child Health and Human Development

Public Education Campaign Led By

In collaboration with other organizations

National Institute of Health's <u>Safe to Sleep</u> Educational
Campaign
Safe to Sleep®

https://www.nichd.nih.gov/sts/Pages/default.aspx

References

- ▶1. Task force on Sudden Infant Death Syndrome. Sides and other-sleep related infant deaths: expansion of recommendations for a safe infant sleeping environment. *Pediatrics.*
- ▶2. Womble EG; Virginia State Child Fatality Team: sleep-related infant deaths in Virginia. 2014
- ▷ 3. Moon RY, Gingras JL, Erwin R., Physician beliefs and practices regarding SIDS and SIDS risk reduction. CLIN PEDIATR.
- ▶4. De Luca F, Boccuzzo G. What do healthcare workers know about SIDS?: the results of the Italian campaign 'GenitoriPiu'. J.R. Statist. Soc.
- ▷5. Kellerman, S.E. & Herold, J (2001). Physician Response to Surveys: A review of the literature. Am J Prev Med 20(1): 61-67
- Special thanks to Dr. Romero, Dr. Mellor, Julie Stoner, Dr. Forestell, and all the lecturers for the support and all the great lessons this summer.