

# Wireless Apnea Monitor

Using technology to get rid of wires

# Premature Birth

- Preterm birth is a growing problem in the United States.
- From 1980 to 2010 the proportion of births at less than 37 weeks completed gestation increased. The bulk of this was in the late preterm category.
- Complications of preterm birth include lung problems, among others

# Apnea

- Many preterm infants go home on home apnea monitors. These devices are often bulky, and require wired attachments to the infants monitor leads.
- Think of a businessman in the 1980s carrying around a large suitcase cellphone.
- Compliance is difficult..infans eventually get more mobile, roll around, leads come off, monitor goes off, parents get tired of it (crying wolf), disconnect monitor.

# Wireless Leads

- A microchip in a sticker with Bluetooth capability
- Transmits to a monitor device.
- Monitor device can transmit via internet to cloud.
- MD usually reads monitor downloads once a month, can log in and read off cloud (as opposed to having patient bring in monitor)
- Improved compliance

# Sudden Infant Death Syndrome

- Another use is for monitoring for SIDS
- Would increase market for product many-fold
- Potential Drawback – no clinical evidence that monitors prevent SIDS