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23 infants infected at CHOP after eye exams with contaminated equipment

By Tom Avril

Twenty-three infants contracted infections after eye exams in the intensive-care unit at Children's Hospital of Philadelphia, an outbreak that the hospital attributed to some medical staff failing to wear gloves, and a "lack of standard cleaning practices" of equipment don't clean the ophthalmoscope?" used in the exams.

At least one child — Melanie Sanders, a premature baby born just fections in a four-paragraph report before 25 weeks of pregnancy — in the June 2017 issue of the Amerdied as a result of her infection, ac- ican Journal of Infection Control, rate. The 23 cases represented more cording to a lawsuit filed by the but did not mention the patient than half of the 43 infants who unfamily. In its response filed with the deaths. Specter filed the Sanders derwent eye exams in the neonatal Court of Common Pleas, the hospi- lawsuit in December, then amended intensive care unit in August 2016, tal denied that the infection led to it this month after learning of addi- the authors of the hospital's case her death in September 2016. Sur- tional details in the hospital's case study wrote. vival of such premature infants is study. uncertain for numerous reasons.

representing the Sanders family, also filed suit this month on behospital. But Specter said he was In addition, 11 of the 23 experistill investigating what role the enced infectious symptoms in their virus may have played in her eyes. Six hospital employees and death.

He described the hospital's use of contaminated equipment including a device called an oph-

the intensive-care unit.

"By definition they are vulnerable to serious injury or death from getting an infection, and then you don't wear gloves when scopes were identified as adenoviyou do an eye exam, and you rus type 3, which can cause both Specter asked.

The hospital described the 23 in-

Shanin Specter, the attorney a kind of microbe called an adeno- stepping up equipment cleaning, virus, the authors of the case study and instituting a "staff furlough," wrote. All 23 suffered respiratory according to the case study, which half of a second child who died symptoms, and five went on to de- didn't specify the length or extent of after becoming infected at the velop pneumonia, the authors said. the furlough. three parents also contracted viral infections.

standard cleaning practices of bed-

thalmoscope — as "shocking," side ophthalmologic equipment and especially given the fact that the limited glove use," wrote the aupatients were neonates — gener- thors, all pediatric or infection exally defined as babies less than perts from CHOP or the University one month old — being treated in of Pennsylvania. "Environmental sampling of two hand-held lenses and two ophthalmoscopes revealed adenovirus DNA on each device."

> The microbes on the lenses and conjunctivitis and respiratory problems, according to a summary by the World Health Organization.

> In the intensive care unit at CHOP, it was transmitted at a high

CHOP responded by reinforcing The 23 patients were infected with the importance of hand-washing,

Melanie Sanders was born in May 2016 at what was then called PinnacleHealth Harrisburg hospital, weighing just 1 pound 4 ounces. She was diagnosed with retinopathy "Observations revealed lack of of prematurity — an abnormal growth of blood vessels on the retina — which can occur in premature babies and leads to severe vision loss if not treated.

The baby was transferred to CHOP in July and had a series of exams by eye doctor Graham Quinn, according to the lawsuit.

She began to suffer respiratory symptoms in mid-August, and tested positive for infection with an adenovirus, the lawsuit stated. She soon went into chronic respiratory failure and needed to have a drainage tube placed in her chest, in a procedure called a thoracostomy, on four separate occasions, according to the complaint.

Baby Melanie developed a bacterial infection on top of the viral illness, and died on Sept. 11, 2016.

In the lawsuit, her parents accuse the hospital staff of negligence and failing to use proper hygiene. In addition to wearing gloves and disinfecting the devices used in eye exams, hospital staff also could have prevented infection by using equipment that is disposed after one use, the family alleged.