

**Supplemental Digital Content 1. Increased exposure to 80/81 at 16 h did not increase the rate of colonization.** This experiment suggested that previous colonization with coagulase-positive staphylococci, rather than maturation, prevents the acquisition of a virulent strain.

	Total number of babies	Babies colonized with 80/81, n (%)
Nursery A	32	18 (56)
Nursery B	36	4 (11)
Transferred from B to A 16 h after birth	14	2 (14)