

Table 1. Patient characteristics

Characteristics	NICU preterm exposed (n=354)		NICU preterm (n=320)		Surgical/Procedural preterm (n=34)		NICU preterm not exposed (n=402)	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Gestational age	27.3	2.6	27.3	2.6	28.0	2.6	28.5	2.4
Birthweight (grams)	1,009.5	425.6	1,006.2	424.0	1,039.9	445.2	1,184.1	378.2
Apgar score at one minute	5.3	2.5	5.3	2.4	5.4	2.8	6.0	2.4
Apgar score at five minutes	7.8	1.6	7.8	1.6	7.9	1.5	7.9	2.0
	NICU preterm exposed (n=354)		NICU preterm (n=320)		Surgical/Procedural preterm (n=34)		NICU preterm not exposed (n=402)	
	n	%	n	%	n	%	n	%
Sex								
Male	221	62.4	202	63.1	19	55.9	194	48.3
Female	133	37.6	118	36.9	15	44.1	208	51.7
Race								
Black or African American	69	19.5	65	20.3	4	11.8	89	22.1
White	158	44.6	143	44.7	15	44.1	160	39.8
Asian	19	5.4	17	5.3	2	5.9	27	6.7
American Indian or Alaska Native	1	0.3	1	0.3	0	0.0	5	1.2
Native Hawaiian or Other Pacific Islander	0	0.0	0	0.0	0	0.0	0	0.0
Other	86	24.3	75	23.4	11	32.4	78	19.4
Unknown	21	5.9	19	5.9	2	5.9	43	10.7
Payor								
Medicaid	216	61.0	196	61.3	20	58.8	223	55.5
International	1	0.3	1	0.3	0	0.0	0	0.0
Commercial	130	36.7	117	36.6	13	38.2	165	41.0
Other (self-pay)	3	0.8	3	0.9	0	0.0	5	1.2
Unknown	4	1.1	3	0.9	1	2.9	9	2.2
Prenatal care								
No	3	0.8	3	0.9	0	0.0	4	1.0
Yes	347	98.0	314	98.1	33	97.1	392	97.5
Unknown	4	1.1	3	0.9	1	2.9	6	1.5
Resuscitation during delivery								
No	34	9.6	29	9.1	5	14.7	75	18.7
Yes	320	90.4	291	90.9	29	85.3	327	81.3
Neonatal Abstinence Syndrome								
No	353	99.7	319	99.7	34	100.0	402	100.0
Yes	1	0.3	1	0.3	0	0.0	0	0.0
Transferred to another hospital								
N/A	330	93.2	299	93.4	31	91.2	361	89.8
Yes	22	6.2	19	5.9	3	8.8	25	6.2
Unknown	2	0.6	2	0.6	0	0.0	16	4.0
Antenatal magnesium sulfate								
No	79	22.3	72	22.5	7	20.6	102	25.4
Yes	262	74.0	237	74.1	25	73.5	290	72.1
Unknown	13	3.7	11	3.4	2	5.9	10	2.5

	NICU preterm exposed (n=354)		NICU preterm (n=320)		Surgical/Procedural preterm (n=34)		NICU preterm not exposed (n=402)	
Mode of delivery								
Cesarean Section	270	76.3	244	76.3	26	76.5	309	76.9
Vaginal	84	23.7	76	23.8	8	23.5	92	22.9
Unknown	0	0.0	0	0.0	0	0.0	1	0.2
Multiple gestation								
No	255	72.0	229	71.6	26	76.5	248	61.7
Yes	99	28.0	91	28.4	8	23.5	154	38.3
Unknown	0	0.0	0	0.0	0	0.0	0	0.0
Maternal diabetes								
No	290	81.9	264	82.5	26	76.5	325	80.8
Yes	49	13.8	43	13.4	6	17.6	64	15.9
Unknown	15	4.2	13	4.1	2	5.9	13	3.2
Congenital infection								
No	346	97.7	313	97.8	33	97.1	401	99.8
Yes	8	2.3	7	2.2	1	2.9	1	0.2
Antenatal steroids								
No	44	12.4	42	13.1	2	5.9	65	16.2
Yes	303	85.6	272	85.0	31	91.2	327	81.3
Unknown	7	2.0	6	1.9	1	2.9	10	2.5

Table 2. Drug exposure data

Characteristics	NICU preterm exposed (n=354)		NICU preterm (n=320)		Surgical/Procedural preterm (n=34)		NICU preterm not exposed (n=402)	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Cumulative opioid exposure (MME/kg) ²	7.3	12.4	7.7	12.9	2.0	1.2	0.0	0.0
Cumulative benzodiazepine exposure (Lorazepam Equivalents mg/kg) ²	3.1	6.0	2.7	5.6	6.6	8.1	0.0	0.0
	n	%	n	%	n	%	n	%
Opioid exposure	314	88.7	285	89.1	29	85.3	0	0.0
Benzodiazepine exposure	160	45.2	141	44.1	19	55.9	0	0.0
Opioid and Benzodiazepine exposure	143	40.4	196	61.3	15	44.1	0	0.0