

Online Only Supplementary Material

iNeo Group Information: Contributing units of the International Network for Evaluating Outcomes (iNeo) of Neonates

Supplementary Tables:

Supplementary Table 1. Adjusted RR (99.9% CI) comparing ROP treatment in survivors between pairs of countries without adjustment for antenatal steroids and cesarean section delivery

Supplementary Table 2. Adjusted RR (99.9% CI) comparing Death or ROP treatment between pairs of countries for infants with a GA 24⁰-27⁶ weeks

Supplementary Table 3. ROP treatment by year in individual participating networks for infants between A) 24-25 weeks GA and B) 26-27 weeks GA

Supplementary Table 4. Comparison of the ROP classification system used in Japan with International classification

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Supplementary Table 1. Adjusted RR^a (99.9% CI) comparing ROP treatment in survivors between pairs of countries without adjustment for antenatal steroids and cesarean section delivery

	ANZNN	CNN	INN	NRNJ	SNQ	SwissNeoNet	SEN1500	UKNC	FinMBR	TuscanNN
ANZNN	1	0.74 (0.60, 0.90)	0.66 (0.51, 0.85)	0.28 (0.23, 0.32)	0.72 (0.55, 0.96)	1.72 (1.06, 2.79)	0.51 (0.41, 0.62)	0.92 (0.77, 1.11)	0.65 (0.45, 0.94)	0.71 (0.39, 1.30)
CNN	1.36 (1.12, 1.66)	1	0.90 (0.71, 1.15)	0.38 (0.33, 0.43)	0.98 (0.75, 1.29)	2.34 (1.45, 3.77)	0.69 (0.57, 0.83)	1.26 (1.06, 1.49)	0.89 (0.62, 1.27)	0.97 (0.54, 1.76)
INN	1.51 (1.17, 1.95)	1.11 (0.87, 1.42)	1	0.42 (0.34, 0.52)	1.09 (0.80, 1.50)	2.60 (1.57, 4.29)	0.76 (0.60, 0.98)	1.39 (1.10, 1.76)	0.99 (0.66, 1.46)	1.08 (0.58, 2.00)
NRNJ	3.62 (3.09, 4.26)	2.67 (2.32, 3.07)	2.40 (1.94, 2.98)	1	2.62 (2.05, 3.36)	6.24 (3.94, 9.90)	1.83 (1.58, 2.13)	3.35 (2.96, 3.79)	2.37 (1.69, 3.32)	2.59 (1.44, 4.64)
SNQ	1.38 (1.04, 1.83)	1.02 (0.77, 1.33)	0.92 (0.67, 1.26)	0.38 (0.30, 0.49)	1	2.38 (1.42, 3.99)	0.70 (0.53, 0.92)	1.28 (0.98, 1.66)	0.90 (0.60, 1.36)	0.99 (0.53, 1.85)
SwissNeoNet	0.58 (0.36, 0.94)	0.43 (0.27, 0.69)	0.38 (0.23, 0.64)	0.16 (0.10, 0.25)	0.42 (0.25, 0.70)	1	0.29 (0.18, 0.47)	0.54 (0.33, 0.86)	0.38 (0.22, 0.67)	0.41 (0.20, 0.87)
SEN1500	1.98 (1.61, 2.42)	1.45 (1.20, 1.76)	1.31 (1.02, 1.68)	0.55 (0.47, 0.63)	1.43 (1.08, 1.89)	3.40 (2.11, 5.49)	1	1.83 (1.53, 2.18)	1.29 (0.90, 1.85)	1.41 (0.78, 2.56)
UKNC	1.08 (0.90, 1.33)	0.80 (0.67, 0.94)	0.72 (0.57, 0.91)	0.30 (0.26, 0.34)	0.78 (0.60, 1.02)	1.86 (1.16, 2.99)	0.55 (0.46, 0.65)	1	0.71 (0.50, 1.01)	0.77 (0.43, 1.40)
FinMBR	1.53 (1.06, 2.2.)	1.13 (0.79, 1.61)	1.01 (0.69, 1.50)	0.42 (0.30, 0.59)	1.11 (0.73, 1.67)	2.64 (1.50, 4.64)	0.77 (0.54, 1.11)	1.41 (0.99, 2.01)	1	1.09 (0.56, 2.13)
TuscanNN	1.40 (0.77, 2.55)	1.03 (0.57, 1.87)	0.93 (0.50, 1.72)	0.39 (0.22, 0.69)	1.01 (0.54, 1.90)	2.41 (1.15, 5.05)	0.71 (0.39, 1.29)	1.29 (0.72, 2.34)	0.92 (0.47, 1.79)	1

Abbreviations: RR = Relative Risk; GA = Gestational Age; ANZNN = Australia and New Zealand Neonatal Network, CNN = Canadian Neonatal Network, INN = Israel Neonatal Network, NRNJ = Neonatal Research Network of Japan, SEN1500 = Spanish Neonatal Network, SNQ = Swedish Neonatal Quality Register, SwissNeoNet = Swiss Neonatal Network, UKNC = United Kingdom Neonatal Collaborative, FinMBR = Finnish Maternal Birth Register, TuscanNN = Tuscan Neonatal Network

^aRR compared between row vs. column; Adjusted for: sex, GA, BW z-score and multiple birth; Green: RR significantly lower than 1; Red: higher than 1

Supplementary Table 2. Adjusted RR^a (99.9% CI) comparing Death or ROP treatment between pairs of countries for infants with a GA 24⁰-27⁶ weeks

	ANZNN	CNN	INN	NRNJ	SNQ	SwissNeoNet	SEN1500	UKNC	FinMBR	TuscanNN
ANZNN	1	0.92 (0.83, 1.01)	0.65 (0.59, 0.72)	0.74 (0.68, 0.81)	1.01 (0.87, 1.18)	0.94 (0.80, 1.11)	0.57 (0.52, 0.62)	0.93 (0.85, 1.02)	0.89 (0.73, 1.08)	0.68 (0.55, 0.85)
CNN	1.09 (0.99, 1.20)	1	0.71 (0.65, 0.78)	0.81 (0.74, 0.87)	1.10 (0.95, 1.28)	1.03 (0.88, 1.21)	0.62 (0.57, 0.67)	1.01 (0.93, 1.10)	0.97 (0.80, 1.18)	0.75 (0.60, 0.93)
INN	1.54 (1.39, 1.70)	1.41 (1.28, 1.55)	1	1.14 (1.05, 1.24)	1.55 (1.33, 1.81)	1.45 (1.23, 1.70)	0.87 (0.80, 0.95)	1.43 (1.31, 1.56)	1.37 (1.13, 1.66)	1.05 (0.84, 1.31)
NRNJ	1.35 (1.24, 1.48)	1.24 (1.14, 1.35)	0.88 (0.81, 0.96)	1	1.37 (1.18, 1.58)	1.27 (1.09, 1.49)	0.77 (0.71, 0.82)	1.26 (1.17, 1.36)	1.20 (1.00, 1.45)	0.93 (0.75, 1.15)
SNQ	0.99 (0.85, 1.15)	0.91 (0.78, 1.05)	0.64 (0.55, 0.75)	0.73 (0.63, 0.85)	1	0.93 (0.76, 1.14)	0.56 (0.48, 0.65)	0.92 (0.79, 1.07)	0.88 (0.70, 1.10)	0.68 (0.53, 0.87)
SwissNeoNet	1.06 (0.90, 1.25)	0.97 (0.83, 1.14)	0.69 (0.59, 0.81)	0.78 (0.67, 0.91)	1.07 (0.88, 1.31)	1	0.60 (0.51, 0.70)	0.99 (0.84, 1.15)	0.94 (0.75, 1.19)	0.73 (0.56, 0.94)
SEN1500	1.77 (1.62, 1.92)	1.62 (1.49, 1.76)	1.15 (1.05, 1.25)	1.31 (1.22, 1.40)	1.79 (1.54, 2.07)	1.67 (1.43, 1.94)	1	1.64 (1.53, 1.77)	1.57 (1.30, 1.90)	1.21 (0.97, 1.50)
UKNC	1.08 (0.98, 1.18)	0.99 (0.91, 1.07)	0.70 (0.64, 0.76)	0.80 (0.74, 0.86)	1.09 (0.94, 1.26)	1.01 (0.87, 1.19)	0.61 (0.57, 0.66)	1	0.96 (0.79, 1.16)	0.74 (0.59, 0.92)
FinMBR	1.12 (0.93, 1.36)	1.03 (0.85, 1.25)	0.73 (0.60, 0.89)	0.83 (0.69, 1.00)	1.14 (0.91, 1.42)	1.06 (0.84, 1.34)	0.64 (0.53, 0.77)	1.04 (0.86, 1.26)	1	0.77 (0.58, 1.02)
TuscanNN	1.46 (1.17, 1.82)	1.34 (1.07, 1.67)	0.95 (0.76, 1.19)	1.08 (0.87, 1.34)	1.48 (1.15, 1.90)	1.38 (1.07, 1.78)	0.83 (0.67, 1.03)	1.36 (1.09, 1.69)	1.30 (0.98, 1.72)	1

Abbreviations: RR = Relative Risk; GA = Gestational Age; ANZNN = Australia and New Zealand Neonatal Network, CNN = Canadian Neonatal Network, INN = Israel Neonatal Network, NRNJ = Neonatal Research Network of Japan, SEN1500 = Spanish Neonatal Network, SNQ = Swedish Neonatal Quality Register, SwissNeoNet = Swiss Neonatal Network, UKNC = United Kingdom Neonatal Collaborative, FinMBR = Finnish Maternal Birth Register, TuscanNN = Tuscan Neonatal Network

^aRR compared between row vs. column; Adjusted for: antenatal steroid, sex, GA, birth weight z-score, caesarean and multiple births; Green: RR significantly lower than 1; Red: higher than 1

Supplementary Table 3. ROP treatment by year in individual participating networks for infants between A) 24-25 weeks GA and B) 26-27 weeks GA

A) 24-25 weeks

Network	2007	2008	2009	2010	2011	2012	2013	P trend
ANZNN	43 (14.6)	48 (16.9)	37 (13.1)	28 (10.9)	44 (14.8)	44 (14.9)	39 (13)	0.52
CNN	62 (27.2)	66 (27.5)	49 (19.6)	66 (22.2)	51 (18.9)	46 (14.8)	51 (16.4)	<0.01
INN	23 (29.9)	18 (27.7)	25 (30.1)	16 (19.1)	20 (22.2)	14 (21.2)	14 (17.7)	0.03
NRNJ	221 (45.8)	173 (34)	208 (42.8)	243 (44.9)	221 (42.3)	270 (44.7)	205 (41.1)	0.47
SNQ	14 (17.5)	14 (24.1)	12 (15)	20 (26.7)	21 (30.4)	9 (10.8)	14 (18)	0.68
Swiss-NeoNet	4 (11.1)	4 (9.3)	5 (11.6)	5 (10)	4 (9.8)	5 (9.3)	5 (10.6)	0.89
SEN-1500	36 (27.7)	19 (16.5)	32 (25.6)	35 (26.1)	36 (22.6)	29 (22.5)	39 (24.5)	0.93
UKNC	*	40 (9.6)	31 (9)	84 (17.2)	106 (18)	102 (17.1)	138 (22.9)	<0.01
FinMBR	8 (27.6)	2 (6.3)	14 (38.9)	6 (20)	12 (26.1)	8 (19.5)	5 (21.7)	0.91
TuscanNN	*	*	6 (30)	2 (11.1)	3 (13)	4 (16.7)	2 (10.5)	0.20
Total	411 (30.3)	384 (21.8)	419 (24)	505 (25.6)	518 (24.6)	531 (24.1)	512 (24.2)	0.07

B) 26-27 weeks GA

Network	2007	2008	2009	2010	2011	2012	2013	P trend
ANZNN	28 (4.9)	24 (4.1)	21 (4.2)	18 (3.6)	20 (3.8)	13 (2.4)	17 (3.1)	0.03
CNN	26 (7.1)	20 (4.7)	21 (5)	25 (4.7)	20 (4)	21 (4.2)	13 (2.7)	<0.01
INN	15 (7.7)	17 (8.3)	8 (3.9)	8 (3.6)	11 (5.5)	10 (5.2)	11 (5)	0.14
NRNJ	210 (29.9)	138 (20.4)	173 (22.7)	181 (21.5)	181 (21.6)	169 (21.3)	147 (19.4)	<0.01
SNQ	11 (9.2)	6 (4.7)	11 (8.6)	9 (6.5)	4 (3.5)	9 (6.3)	3 (1.7)	0.01

Swiss-NeoNet	1 (1.1)	3 (2.8)	1 (1)	7 (6.1)	1 (0.7)	1 (0.7)	1 (0.9)	0.35
SEN-1500	29 (9.3)	35 (9.9)	32 (8.3)	42 (11.9)	29 (8.8)	37 (9.1)	26 (7.8)	0.54
UKNC	*	19 (2.7)	30 (3.9)	54 (5.3)	42 (3.9)	40 (3.6)	57 (5.5)	0.07
FinMBR	3 (4.8)	6 (8.1)	5 (8.9)	2 (3.5)	2 (2.9)	3 (5.5)	2 (3.7)	0.31
TuscanNN	*	*	2 (5)	2 (6.5)	2 (7.7)	0 (0)	4 (10.3)	0.62
Total	323 (13.3)	268 (8.2)	304 (9)	348 (9.1)	312 (8.2)	303 (7.7)	281 (7.5)	<0.01

Abbreviations: ROP = retinopathy of prematurity; GA = gestational age; ANZNN = Australia and New Zealand Neonatal Network, CNN = Canadian Neonatal Network, INN = Israel Neonatal Network, NRNJ = Neonatal Research Network of Japan, SEN1500 = Spanish Neonatal Network, SNQ = Swedish Neonatal Quality Register, SwissNeoNet = Swiss Neonatal Network, UKNC = United Kingdom Neonatal Collaborative, FinMBR = Finnish Maternal Birth Register, TuscanNN = Tuscan Neonatal Network

*Data not available

Supplementary Table 4. Comparison of the ROP classification system used in Japan with International classification

ROP stage			
International	Japanese	Findings	Japan definition
	I	vessel proliferation	1
1	II	demarcation line	
2	III early	ridge	2
3	III middle	extraretinal fibrovascular proliferation	3
	III late	severe fibrovascular proliferation	4
4	IV	retinal detachment	
5	V	total detachment	

Abbreviations: ROP, retinopathy of prematurity