

Web appendix C. Risk ratios per sub-group by site for 6 months mortality (information is presented only if data are available for more than one category)

	Mazumder (2014)	Rathmathullah (2003)	Klemm (2008)	Humphrey (1996)	Edmond (2014)	Masanja (2014)	Benn (2008)	Benn (2010)	Benn (2014)	Malaba (2005) & Humphrey (2006)	Soofi (2016)
Overall	0.9(0.81,1)	0.78 (0.63, 0.96)	0.85 (0.72, 0.998)	0.39 (0.16, 0.93)	1.12(0.95,1.33)	1.09 (0.95,1.26)	1.16 (0.78,1.73)	1.02 (0.73,1.44)	1.10 (0.75,1.61)	0.98 (0.84, 1.13)	1.01 (0.84, 1.22)
Sex											
Male	0.95(0.81,1.11)	0.69 (0.51, 0.94)	0.91 (0.73, 1.14)	0.16 (0.04, 0.73)	1.19(0.94,1.51)	1.07(0.89,1.29)	0.96 (0.56,1.63)	0.68 (0.40,1.17)	1.22 (0.71,2.10)	1.13 (0.92, 1.38)	1.1 (0.76, 1.61)
Female	0.87(0.76,1)	0.87 (0.64,1.17)	0.78 (0.62, 0.98)	0.85 (0.26, 2.77)	1.05(0.82,1.34)	1.12(0.91,1.39)	1.47 (0.81,2.67)	1.38 (0.87,2.20)	0.98 (0.57,1.69)	0.84 (0.68, 1.04)	1.03 (0.74, 1.44)
Birth Weight											
<2500 grams	0.99(0.86,1.15)	0.65 (0.48, 0.87)	0.87 (0.73, 1.04)	0.73 (0.26, 2.02)	1.16(0.9,1.49)	1.26(0.96,1.66)	-	-	-	0.99 (0.77, 1.27)	1.19 (0.53, 2.68)
≥2500 grams	0.83(0.72,0.96)	0.99 (0.71, 1.39)	0.79 (0.49, 1.26)	0.10 (0.01, 0.78)	1.09(0.87,1.36)	1.05(0.9,1.24)	-	-	-	0.97 (0.81, 1.16)	1.17 (0.85, 1.61)
Maternal Education											
None	0.89(0.78,1.03)	0.76 (0.57, 1.02)	0.89 (0.70, 1.12)		1.41(1.04,1.9)	1.43(0.83,2.44)	0.61 (0.28,1.32)	1.45 (0.79,2.66)	1.55 (0.70,3.42)	1.65 (0.29, 9.48)	-
Primary	0.99 (0.77,1.29)	0.82 (0.53, 1.29)	0.86 (0.62, 1.19)	0.00 (0.00, ---)	0.84(0.59,1.19)	1.1(0.94,1.3)	1.25 (0.65,2.40)	0.56 (0.31,1.00)	0.74 (0.35,1.59)	1.01 (0.72, 1.43)	-
Secondary	0.87(0.72,1.05)	0.76 (0.50, 1.17)	0.77 (0.57, 1.04)	0.43 (0.16, 1.10)	1.11(0.86,1.43)	0.89(0.54,1.48)	1.66 (0.76,3.63)	1.31 (0.69,2.51)	1.10 (0.59,2.04)	0.96 (0.82, 1.14)	-
Maternal Supplementation											
Yes	-	-	0.84 (0.68, 1.03)	-	1.05(0.81,1.36)	1.14(0.96,1.35)	-	-	-	0.85 (0.7, 1.05)	-
No	-	-	0.86 (0.66, 1.13)	-	1.19(0.96,1.49)	0.99(0.77,1.27)	-	-	-	1.14 (0.92, 1.41)	-
Colostrum Given											
Yes	0.91(0.81,1.02)	0.78 (0.62, 0.98)	0.87 (0.73, 1.04)	-	1.1(0.93,1.31)	1.09(0.95,1.26)	-	-	-	0.94 (0.8, 1.1)	1.07 (0.81, 1.41)
No	0.87(0.7,1.09)	0.76 (0.40, 1.47)	0.78 (0.42, 1.45)	-	1.58(0.77,3.24)	1.07(0.49,2.37)	-	-	-	1.27 (0.86, 1.89)	1 (0.55, 1.84)
Parity											
1	0.91(0.75,1.1)	0.59 (0.38, 0.92)	0.85 (0.70, 1.04)	0.61 (0.22, 1.65)	0.92(0.69,1.24)	1.24(0.95,1.63)	1.05 (0.55,2.00)	0.97 (0.59,1.58)	1.39 (0.66,2.94)	0.88 (0.69, 1.12)	0.86 (0.65, 1.13)
2-3	0.95(0.82,1.11)	0.95 (0.70, 1.29)	0.79 (0.56, 1.13)	0.00 (0.00, ---)	1.05(0.77,1.42)	1.07(0.84,1.36)	1.75 (0.89,3.43)	1.11 (0.61,2.02)	1.08 (0.58,2.03)	0.98 (0.80, 1.21)	1.25(0.87, 1.79)
≥4	0.81(0.65,1)	0.69 (0.46, 1.05)	0.96 (0.58, 1.60)	0.21 (0.02, 1.79)	1.43(1.08,1.91)	0.92(0.67,1.25)	0.62 (0.26,1.46)	1.12 (0.49,2.58)	0.92 (0.48,1.76)	1.33 (0.88, 2.00)	1.09 (0.75, 1.59)
Time of Dosing											
<24 hours	0.93(0.81,1.06)	0.81 (0.60 1.09)	0.90 (0.75, 1.07)	0.46 (0.18, 1.20)	1.23(1,1.51)	1.05(0.9,1.22)	0.89 (0.40,1.97)	0.57 (0.07,4.74)	1.87 (0.63,5.59)	0.97 (0.81, 1.16)	1.24 (0.9,1.7)
24-47 hours	0.85(0.7,1.03)	0.71 (0.49, 1.01)	0.62 (0.35, 1.10)	0.21 (0.02, 1.79)	0.89(0.63,1.27)	1.27(0.92,1.74)	1.36 (0.77,2.41)	1.39 (0.82,2.36)	0.86 (0.51,1.45)	1.02 (0.76, 1.38)	0.92 (0.49, 1.74)
≥48 hours	0.94(0.65,1.35)	0.83 (0.48, 1.44)	0.72 (0.44, 1.16)		0.92(0.49,1.72)	1.86(0.55,6.27)	0.94 (0.28,3.21)	1.02 (0.57,1.82)	0.95 (0.34,2.71)	0.94 (0.53, 1.65)	1.13 (0.68, 1.87)
Term and Preterm SGA											
Term AGA	0.92(0.77,1.11)	1.13 (0.72, 1.76)	1.10 (0.57, 2.17)	0.00 (0.00, ---)	-	1.04(0.81,1.33)	-	-	-	0.97 (0.79, 1.19)	-
Term SGA	0.9(0.77,1.06)	0.70 (0.52, 0.96)	0.72 (0.54, 0.96)	1.31 (0.40, 4.22)	-	1.08(0.78,1.49)	-	-	-	0.95 (0.72, 1.24)	-
Preterm AGA	0.79(0.62,1)	0.84 (0.51, 1.37)	0.98 (0.73, 1.30)	0.00 (0.00, ---)	-	1.31(0.91,1.9)	-	-	-	1.01 (0.65, 1.57)	-

Preterm SGA	1.2(0.84,1.72)	0.43 (0.17, 1.12)	0.89 (0.55, 1.44)	0.50 (0.05, 5.51)	-	1.5(0.26,8.56)	-	-	-	1.61 (0.92, 2.83)	-
Initiation of Breastfeeding (hours)											
<=1 hour	0.94(0.77,1.14)	0.77 (0.61, 0.96)	0.79 (0.48, 1.29)	-	1.32(1.02,1.71)	1.12(0.96,1.31)	-	-	-	0.77 (0.6, 0.99)	2.01 (0.84, 4.81)
2-23 hours	0.90(0.79,1.03)	0.87 (0.43, 1.77)	0.86 (0.68, 1.09)	-	0.94(0.75,1.2)	1.02(0.72,1.43)	-	-	-	1.07 (0.87, 1.32)	1.01 (0.77, 1.32)
>=24 hours	0.93(0.67,1.29)	-	0.82 (0.59, 1.12)	-	1.55(0.65,3.68)	0.76(0.19,2.97)	-	-	-	1.26 (0.46, 3.48)	-
Retinol <1.05											
<1.05 micromol/L	1.54(0.26,9.04)	-	1.05 (0.37, 2.96)	-	-	-	-	-	-	0.67 (0.45, 0.99)	-
≥1.05 micromol/L	1.85(0.34,9.95)	-	1.02 (0.34, 3.02)	-	-	-	-	-	-	1.27 (0.84, 1.93)	-
Maternal Night Blindness											
Yes	-	0.91 (0.47, 1.74)	0.99 (0.64, 1.52)	-	-	-	-	-	-	-	0.26 (0.03, 2.17)
No	-	0.76 (0.61, 0.95)	0.80 (0.67, 0.95)	-	-	-	-	-	-	-	1.02 (0.84, 1.24)

Web appendix C. Risk ratios per sub-group by site for 12 months mortality (information is presented only if data are available for more than one category)

	Mazumder (2014)	Klemm (2008)	Humphrey (1996)	Edmond (2014)	Masanja (2014)	Benn (2008)	Benn (2010)	Benn (2014)	Malaba (2005) & Humphrey (2006)	Soofi (2016)
Overall	0.94(0.86,1.02)	0.85 (0.73, 0.99)	0.37 (0.16, 0.87)	1.13(0.98,1.31)	1.04 (0.92,1.16)	1.09 (0.81,1.47)	1.09 (0.81,1.46)	1.15 (0.82,1.59)	1.05 (0.93, 1.19)	1.00 (1.83, 1.20)
Sex										
Male	0.94(0.82,1.08)	0.91 (0.74, 1.12)	0.15 (0.03, 0.66)	1.18(0.96,1.45)	0.95(0.82,1.11)	0.87 (0.58,1.33)	0.73 (0.46,1.17)	1.19 (0.76,1.86)	1.18 (0.99, 1.41)	1.13 (0.79, 1.61)
Female	0.93(0.83,1.05)	0.79 (0.64, 0.97)	0.85 (0.26, 2.77)	1.08(0.87,1.33)	1.16(0.97,1.39)	1.39 (0.90,2.16)	1.44 (0.97,2.16)	1.09 (0.67,1.80)	0.92 (0.77, 1.11)	0.97 (0.71, 1.63)
Birth Weight										
<2500 grams	0.95(0.84,1.08)	0.86 (0.73, 1.01)	0.73 (0.26, 2.02)	1.21(0.96,1.53)	1.19(0.94,1.51)	-	-	-	1.09 (0.87, 1.36)	-
≥2500 grams	0.93(0.82,1.05)	0.83 (0.56, 1.25)	0.09 (0.01, 0.70)	1.08(0.9,1.3)	1(0.88,1.14)	-	-	-	1.04 (0.89, 1.21)	-
Maternal Education										
None	0.9(0.8,1.01)	0.87 (0.71, 1.07)	-	1.23(0.96,1.58)	1.18(0.76,1.85)	0.68 (0.37,1.23)	1.63 (0.94,2.85)	1.33 (0.69,2.57)	1.1 (0.29, 4.17)	-
Primary	1.07(0.85,1.34)	0.92 (0.68, 1.24)	0.00 (0.00, ---)	0.86(0.63,1.18)	1.05(0.92,1.2)	1.12 (0.69,1.80)	0.71 (0.43,1.16)	1.15 (0.59,2.25)	1.09 (0.81, 1.46)	-
Secondary	0.94(0.79,1.11)	0.75 (0.56, 0.998)	0.40 (0.16, 1.02)	1.22(0.97,1.52)	0.79(0.52,1.22)	1.99 (1.03,3.86)	1.16 (0.68,1.97)	1.09 (0.63,1.89)	1.04 (0.9, 1.2)	
Maternal Supplementation										
Yes	-	0.85 (0.70, 1.03)	-	1.12(0.9,1.4)	1.12(0.98,1.29)	-	-	-	0.89 (0.74, 1.06)	-
No	0.94(0.86,1.02)	0.85 (0.66, 1.10)	-	1.15(0.95,1.39)	0.86(0.7,1.06)	-	-	-	1.26 (1.05, 1.52)	-
Colostrum Given										
Yes	0.95(0.86,1.05)	0.86 (0.74, 1.01)	-	1.13(0.97,1.31)	1.04(0.92,1.17)	-	-	-	1.03 (0.89, 1.18)	1.02 (0.78, 1.32)
No	0.88(0.72,1.07)	0.85 (0.49, 1.49)	-	1.32(0.7,2.51)	1.09(0.56,2.13)	-	-	-	1.23 (0.87, 1.73)	1.11 (0.62, 2.00)
Parity										
1	0.94(0.79,1.12)	0.86 (0.71, 1.03)	0.55 (0.21, 1.48)	1.07(0.82,1.38)	1.18(0.94,1.5)	0.92 (0.55,1.51)	0.96 (0.63,1.48)	1.49 (0.76,2.91)	0.96 (0.77, 1.2)	0.85 (0.65, 1.12)
2-3	1(0.88,1.14)	0.79 (0.58, 1.10)	0.00 (0.00, ---)	1.03(0.8,1.34)	1.16(0.95,1.4)	1.53 (0.92,2.53)	1.33 (0.81,2.21)	1.06 (0.63,1.80)	1.03 (0.87, 1.24)	1.21 (0.86, 1.72)
≥4	0.82(0.69,0.98)	0.996 (0.64, 1.56)	0.21 (0.02, 1.79)	1.3(1.02,1.66)	0.85(0.66,1.1)	0.81 (0.44,1.48)	1.10 (0.53,2.28)	1.04 (0.59,1.81)	1.43 (1.01, 2.03)	1.08 (0.75, 1.56)
Time of Dosing										
<24 hours	0.95(0.85,1.06)	0.88 (0.75, 1.04)	0.43 (0.16, 1.10)	1.19(1,1.42)	0.99(0.87,1.13)	0.88 (0.45,1.72)	0.85 (0.19,3.84)	1.75 (0.71,4.28)	1.04 (0.89, 1.21)	1.08 (0.79, 1.48)
24-47 hours	0.9(0.77,1.07)	0.65 (0.39, 1.11)	0.21 (0.02, 1.79)	1.05(0.77,1.41)	1.23(0.95,1.6)	1.20 (0.78,1.85)	1.45 (0.91,2.30)	0.98 (0.61,1.58)	1.12 (0.86, 1.47)	1.2 (0.65, 2.19)
≥48 hours	0.97(0.71,1.33)	0.81 (0.52, 1.26)		0.85(0.49,1.46)	1.48(0.48,4.62)	0.73 (0.28,1.93)	0.98 (0.59,1.64)	1.30 (0.48,3.54)	0.98 (0.61, 1.59)	0.86 (0.53, 1.4)
Term and Preterm SGA										
Term AGA	0.98(0.84,1.14)	0.90 (0.51, 1.59)	0.00 (0.00, ---)	-	1.03(0.84,1.26)	-	-	-	1.02 (0.86, 1.21)	-
Term SGA	0.92(0.8,1.06)	0.75 (0.58, 0.97)	1.31 (0.40, 4.22)	-	1.01(0.76,1.34)	-	-	-	1.04 (0.82, 1.32)	-
Preterm AGA	0.86(0.7,1.06)	0.95 (0.73, 1.22)	0.00 (0.00, ---)	-	1.1(0.81,1.49)	-	-	-	1.08 (0.73, 1.6)	-
Preterm SGA	1.09(0.78,1.53)	0.90 (0.56, 1.42)	0.50 (0.05, 5.51)	-	1.67(0.42,6.57)	-	-	-	1.71 (1.02, 2.88)	-

Initiation of Breastfeeding (hours)

<=1 hour	0.92(0.77,1.09)	0.73 (0.47, 1.14)	-	1.31(1.06,1.62)	1.08(0.95,1.23)	-	-	-	0.92 (0.75, 1.13)	1.47 (0.66, 3.25)
2-23 hours	0.96(0.86,1.08)	0.88 (0.70, 1.09)	-	0.96(0.78,1.18)	0.87(0.64,1.19)	-	-	-	1.11 (0.92, 1.34)	1.01 (0.78, 1.31)
>=24 hours	0.91(0.68,1.20)	0.84 (0.63, 1.12)	-	1.55(0.65,3.68)	0.65(0.23,1.88)	-	-	-	1.06 (0.43, 2.63)	-

Retinol <1.05

Yes	1.71(0.42,6.98)	0.89 (0.41, 1.94)	-	-	1.1 (0.16, 7.61)	-	-	-	0.77 (0.54, 1.1)	-
No	2.31(0.45,11.74)	1.31 (0.47, 3.63)	-	-	0.6 (0.1, 3.57)	-	-	-	1.22 (0.85, 1.76)	-

XN at pregnancy

Yes	-	0.98 (0.66, 1.43)	-	-	-	-	-	-	-	-
No	-	0.80 (0.68, 0.94)	0.37 (0.16, 0.87)	-	-	-	-	-	-	-
