

Table 1a: general characteristics of preterm babies

Item	26		27		28		29		30	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
AG (weeks)	25,6	,8	27,0	0,0	28,0	0,0	29,0	0,0	30,0	0,0
Rea. time (minute)	6,0	2,2	6,2	2,0	8,	5,4	6,2	2,5	5,7	3,0
Birth Weight (grams)	670	116,4	916,2	83,4	1042,2	93,1	1086,5	88,2	1224,6	140,3
Apgar (5min.)	7,1	1,8	7,3	1,3	7,0	1,5	7,0	1,5	7,4	1,2
Apnea number	1,5	1,2	1,6	1,7	1,1	1,0	,4	,9	,8	1,4
Sat. O2 ,(%)	93,0	7,3	89,9	11,6	89,4	11,7	92,5	8,2	90,6	6,6
FC	139,3	24,7	140,6	17,4	141,3	22,0	146,5	17,4	149,1	13,3
FR	52,6	13,9	50,3	9,4	54,1	13,2	57,3	10,4	52,9	9,3
T° (°C)	34,1	1,4	34,6	1,4	35,1	1,3	35,4	1,5	35,4	,75
Glycemia (mg/dl)	122,3	98,2	157,1	142,5	136,8	144,6	111,6	78,6	79,9	39,1

AG: gestational age, Reanimation time at birth, Apnea number, Sat O2: oxygen saturation, FC: Heart rate, FR: respiratory rate T° : temperature, Glycemia

Table 1b : General characteristics of preterm babies

Item	31		32		33		34		35		Total	
	Mea n	SD	Mea n	SD	Mea n	SD	Mea n	SD	Mea n	SD	Mea n	SD
Age (weeks)	31,0	0,0	32,0	0,0	33,0	0,0	33,9	,1	34,9	,14	31,7	2,81
Rea. time (minute)	6,3	3,0	5,6	2,1	4,9	2,1	6,0	2,5	6,4	2,7	6,2	2,9
Birth Weight (Grams)	1335,0	132,3	1487,3	252,2	1659,3	193,0	1793,4	279,0	2017,0	269,3	1482,5	434,3
Apgar at. 5min.	7,7	1,3	7,7	1,7	8,2	1,2	8,2	1,2	8,2	1,3	7,9	1,4
Apnea number	,4	,8	,3	1,1	,1	,5	,1	,5	,0	,14	,5	1,0
O2 Sat.(%)	91,7	9,4	96,1	3,1	95,3	5,1	96,5	3,6	96,4	3,1	92,7	7,3
FC	142,0	20,5	141,0	18,4	145,7	15,7	139,3	15,9	135,4	18,6	141,4	18,3

FR	55,3	12,3	58,8	14,2	55,8	10,4	54,4	11,2	54,2	14,2	54,8	11,9
T° (°C)	35,7	,9	35,6	1,0	36,0	,9	35,2	3,6	35,6	1,0	35,4	2,0
Glycemia (mg/dl)	94,7	66,4	98,6	92,8	78,6	32,0	96,4	85,9	71,4	23,9	98,5	83,6

AG: gestational age, Reanimation time at birth, Apnea number, Sat O2: oxygen saturation, FC: Heart rate, FR : respiratory rate, T°: temperature

Table 2a: Evaluation of mortality and morbidity of preterm associated with respiratory interventions

Gestational (Weeks)	ag	26	27	28	29	30
Number		21	30	23	21	15
Death (%) < 7		13 (61,9)	14 (53,2)	11 (47,8)	2 (9,5)	4 (26,7)
Death (%) ≥ 7		4(19)	5(16,9)	2(8,7)	4(19)	1(6,7)
Survival (%)		4 (19,1)	11 (29,9)	10 (43,5)	15 (71,5)	10 (67,6)
RDS		19 (90,5)	27 (90)	17 (73,9)	13 (61,9)	8 (53,3)
Cyanosis		18(85,7)	20(66,7)	13(56,5)	9(42,9)	7(46,7)
Apnea		12 (57,1)	11 (36,7)	10 (43,5)	2 (9,5)	3 (20)
Sepsis		5 (23,8)	13 (43,3)	8 (34,8)	11 (52,4)	8 (53,3)
PRM		8 (38,1)	16 (53,3)	6 (26,1)	9 (42,9)	3 (20)
NCPAP		19 (95,5)	23(76,7)	19(82,6)	18(85,7)	12(80,0)
ACS		5(76,2)	9(30,0)	7(30,4)	13(61,9)	9(60,0,)
Transferred		9(42,9)	12(40,0)	12(52,2)	4(19,0)	2(13,3)
Caesarean section		1(4,8)	11(36,7)	9(39,1)	8(38,1)	10(66,7)

AG : gestational age, , RDS: respiratory distress syndrome, NCPAP : Nasal Continuous Positive Airway Pressure,,ACS: Antenatal Corticosteroid, PRM :premature rupture of membranes

Table 2b: Evaluation of mortality and morbidity of preterm associated with respiratory interventions

Gestational (Weeks)	ag	31	32	33	34	35	Total
Number		57	26	63	92	48	396
Death (%) < 7 jours		11 (19,3)	2 (4,8)	3 (4,7)	5 (5,4)	1 (2,1)	66 (16,7)
Death (%) ≥ 7 jours		7(12,3)	0(0)	0(0)	3(3,3)	0(0)	27(6,8)
Survival (%)		39 (68,4)	23 (87,5)	60(95,3)	84 (91,3)	47 (97,9)	303 (76,5)
RDS		30 (52,6)	15 (57,7)	25 (39,7)	29 (31,5)	11 (22,9)	194 (49)
Cyanosis		21(36,8)	6(23,1)	17(27,0)	11(12,0)	5(10,4)	127(32,1)
Apnea		4 (7)	(3,8)	1 (1,6)	1 (1,1)	0 (0)	45 (11,4)
Sepsis		17 (29,8)	4 (15,4)	19 (30,2)	10 (10,9)	5 (10,4)	100 (25,3)
PRM		25 (43,9)	4 (15,4)	15 (23,8)	31 (33,7)	19 (39,6)	136 (34,3)
NCPAP		43(75,4)	12(46,2)	8(12,7)	10(10,9)	4(8,3)	168(42,4)
ACS		33(58,0)	9(34,6)	8(12,7)	5(5,4)	0(0)	98(24,7)

Transferred	16(28,1)	7(26,9)	15(23,8)	24(26,1)	6(12,5)	107(27,0)
Caesarean section	40(70,2)	16(61,5)	36(57,1)	37(40,2)	18(37,5)	186(47,0)

AG: gestational age, RDS: respiratory distress syndrome, NCPAP : Nasal Continuous Positive Airway Pressure, ACS: Antenatal Corticosteroid, PRM :premature rupture of membranes

Table 3: Multivariate logistic regression analysis of severe morbidity risk factors

Factors	p-value	OR	wald	95% CI	p
Gestationel age	-,306	,084	13,255	,624 - ,868	0,000
Oxygen sat. 95%	-,358	,312	1,319	,379 – 1,288	0,251
Transfer	1,048	,338	9,600	1,470 – 5,534	0,002
Absence ACS	-,762	,386	3,893	,219 - ,995	0,049
Female gender	,323	,285	1,279	,789 – 2,415	0,258
No NCPAP use	-,139	,353	1,319	,436 – 1,737	0,693
Cyanosis	-,879	,374	5,515	,199 - ,865	0,19
Glycemia 150mg/dl	-,220	,328	,450	,422 – 1,526	0,502

ACS: absence of antenatal corticosteroid, oxygen saturation, transfer after birth, NCPAP: Nasal Continuous Positive Airway Pressure,

Table 4: Multivariate logistic regression analysis of mortality risk factors

Factors	Mortality				
	Bvalue	OR	wald	95% CI	p-value
Gestationel age	-,608	,097	39,231	,450 - ,659	0,000
Oxygen sat. 95%	-1,125	,390	8,309	,151 - ,698	0,004
Transfer	,239	,466	,264	,510 – 3,164	0,000
Absence ACS	1,018	,484	4,416	1,071 – 7,154	0,036
Female gender	-,420	,372	1,276	,317 – 1,362	0,259
No NCPAP use	-1,350	,443	9,294	,109 - ,698	0,002
Cyanosis	-1,659	,435	14,547	,081 - ,446	0,000
Glycemia 150mg/dl	-,544	,413	1,738	,258 – 1,303	0,187

ACS: absence of antenatal corticosteroid, oxygen saturation, transfer after birth, NCPAP: Nasal Continuous Positive Airway Pressure,