

Ekstraktionstabel- Fysisk stabilitet

PICO 1

Er der evidens for, at hud-mod-hud-kontakt påbegyndt fra første levedøgn, har positiv effekt på præmature børns fysisk stabilitet sammenlignet med ingen hud-mod-hud-kontakt?

GA= Gestational age, BW = birth weight, STS=skin-to-skin, LBW= Low birth weight (<2500 grams),

Hypotermi og Hypertermi						
Author and year	Population	Intervention	Control	Outcomes	Experimental - data	Control - data
Bergman 2004 (9) RCT	<p>31 infants randomised to intervention (18) or control (13).</p> <p>Intervention: Mean GA 34,2 week Mean BW 1813g</p> <p>Control: Mean GA 35,3 week Mean BW1866g</p> <p>Inclusion: low birthweight infants between 1200-2199 g., vaginally birth.</p> <p>Exclusion: Apgar score below 6 at 5 min. congenital malformations detected at birth.</p>	Immediate STS the first 6 hours after birth	Standardized incubator care and observations the first 6 hours after birth	<p>Hypothermia Any axillary >35,5°C within 6 hours post-birth.</p> <p>P value= 0,006</p>	1/18 (5,6%)	8/13 (61,5%)

Author and year	Population	Intervention	Control	Outcomes	Experimental - data	Control - data
WHO/Arya 2021 (1) RCT	<p>3211 infants randomized to intervention (1609) or control (1602).</p> <p>Intervention: Mean GA 32,6 week Mean BW 1500 g</p> <p>Control: Mean GA 32,6 week Mean BW 1500 g</p> <p>Inclusion: BW 1.000 - 1.799 g infants in 5 developing countries</p> <p>Exclusion: Unable to breathe spontaneously by 1 hour after birth or major congenital malformation</p>	<p>Immediate STS after birth.</p> <p>1) STS started mean 1,3 h postpartum,</p> <p>2) Continued mean 16.9 h/day until stable</p> <p>3) Mean 20 h/day after transfer to STS ward</p>	<p>Transferred to the control NICU without their mother.</p> <p>1) STS started mean 53,6 h postpartum (at least 24 h),</p> <p>2) Continued mean 1,5 h/day until stable</p> <p>3) Mean 19 h/day after transfer to STS ward</p>	<p>Hypothermia Any axillary temperature $<36^{\circ}\text{C}$ measured from 2 hours after randomization until hospital discharge.</p> <p>Adjusted risk ratio, 0.65; (95% CI 0.51-0.83).</p>	90/1609 (5.6%)	133/1602 (8.3%)

Author and year	Population	Intervention	Control	Outcomes	Experimental - data	Control - data
Kristoffersen 2023 (4) RCT	<p>108 infants LBW infants randomized to intervention (51) or control (57).</p> <p>Intervention: GA 28–29: 41% GA 30–31: 59% Mean BW:1436g,</p> <p>Control: GA 28–29: 37% GA 30–31: 63% Mean BW: 1438 Gestational age</p> <p>Inclusion: GA 28+0–31+6 w BW >1000 g.</p> <p>Exclusion: >0.4 FiO₂, to maintain oxygen saturation above 90% after 20 min of life, intubation and mechanical ventilation, major congenital malformations, and maternal general anesthesia.</p>	<p>Median (IQR) age at randomization was 23 min (17–30).</p> <p>Two hours of early SSC between the mother and the infant.</p> <p>After a maximum SSC time of 2 hours, the infants were transferred to the NICU in an incubator.</p>	<p>Standard care (SC) where the infant is separated from the mother and transferred to the neonatal unit in an incubator.</p>	<p>Hypothermia (<36.0°C) within 2 h post-birth, P= 0.68</p> <p>Hyperthermia (>37.5°C) within 2 h post-birth. P= 0,02</p>	<p>2/51 (4%)</p> <p>13/51 (26%)</p>	<p>4/57 (7%)</p> <p>27/57 (47%)</p>

Author and year	Population	Intervention	Control	Outcomes	Experimental - data	Control - data
Linnér 2020 (12) Pilotstudy RCT	<p>55 infants randomized to intervention (26) or control (29).</p> <p>Intervention: Mean GA 32,0 week Mean BW 1864 g</p> <p>Control: Mean GA 31,6 week Mean BW 1646g</p> <p>Inclusion: Singleton, GA 28 + 0- 33 + 6 w BW:1000-2500 g.</p> <p>Exclusion: malformations and insufficient parental knowledge in Swedish or English to understand study information.</p>	<p>Immediate STS after birth. Mean duration 49 min. After caesarean section, the partner was prepared to provide STS.</p>	<p>Stabilized as per standard clinical protocols. A couple of minutes on the mother's chest before transfer to incubator. Mean duration 2 min with mothers and 1 min with partners.</p>	<p>Temperature, measured rectally 1 h post-birth</p> <p>P = 0,03</p>	Mean 36.3°C ± 0.52 (Range 34.4-37.2)	Mean 36.6°C ± 0.42 (Range 36.0-37.4)

Author and year	Population	Intervention	Control	Outcomes	Experimental - data	Control - data
Lode-Kolz 2022 (5) RCT	<p>91 premature infants randomized to intervention (46) or control (45).</p> <p>Intervention: Mean GA 31,2 weeks Mean BW 1571g.</p> <p>Control: Mean GA 31,0 weeks Mean BW1494 g.</p> <p>Inclusion: GA 28+0 to 32+6 w, vaginal or cesarean birth, parent or surrogate caregiver prepared to start SSC in the first postnatal hour.</p> <p>Exclusion: Triplets or higher order births, congenital malformations, or congenital infection.</p>	Immediate STS with a parent the first 6 h after birth Mean age at initiation: 24 min.	Standardized incubator care and observations the first 6 h after birth.	<p>Axillary temp first 360 min post-birth. Normothermia = 36.5–37.4°C.</p> <p>Hypothermi: Mild 36,0-36.4 Moderate 35,0-35,9</p> <p>Hyperthermia (>37,4) RR (95%CI) = 0.70 (0.50, 0.99), p = 0.04.</p>	<p>15/46 (33%) 4/46 (9%)</p> <p>23/46 (50%)</p>	<p>12/45 (27%) 1/45 (2%)</p> <p>32/45 (71%)</p>

Hypoglycaemi PICO 1						
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WHO/Arya 2021 (1) RCT	<p>3211 infants randomized to intervention (1609) or control (1602).</p> <p>Intervention: Mean GA 32,6 week Mean BW 1500 g</p> <p>Control: Mean GA 32,6 week Mean BW 1500 g</p> <p>Inclusion: BW 1.000 - 1.799 g infants in 5 developing countries</p> <p>Exclusion: Unable to breathe spontaneously by 1 hour after birth or major congenital malformation</p>	<p>Immediate STS after birth.</p> <p>1) STS started mean 1,3 h postpartum,</p> <p>2) Continued mean 16.9 h/day until stable</p> <p>3) Mean 20 h/day after transfer to STS ward</p>	<p>Transferred to the control NICU without their mother.</p> <p>1) STS started mean 53,6 h postpartum (at least 24 h),</p> <p>2) Continued mean 1,5 h/day until stable</p> <p>3) Mean 19 h/day after transfer to STS ward</p>	<p>Blood glucose measured 0-36 h after birth when clinically indicated</p> <p>Hypoglycaemia (any blood glucose level <2,5 mmol/L).</p> <p>.</p> <p>Risk Ratio, Hazard Ratio, or Difference (95% CI)</p> <p>1.15 (0.85–1.56)</p>	82/799 (10.3%)	66/651 (10.1%)

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Bergman 2004 (9) RCT	<p>31 infants randomised to intervention (18) or control (13).</p> <p>Intervention: Mean GA 34,2 week Mean BW 1813g</p> <p>Control: Mean GA 35,3 week Mean BW1866g</p> <p>Inclusion: low birthweight infants between 1200-2199 g., vaginally birth.</p> <p>Exclusion: Apgar score below 6 at 5 min. congenital malformations detected at birth.</p>	Immediate STS the first 6 hours after birth	Standardized incubator care and observations the first 6 hours after birth	<p>Blood glucose at 1, 3 and 6 h pp.</p> <p>Hypoglycaemia: blood glucose > 2.6 mmol/l.</p> <p>P value= 0.02</p>	1/18 (5,6%)	3/13 (23,2%)

Author and year	Population	Intervention	Control	Outcomes	Experimental - data	Control - data
Kristoffersen 2023 (4) RCT	<p>108 infants LBW infants randomized to intervention (51) or control (57).</p> <p>Intervention: GA 28–29: 41% GA 30–31: 59% Mean BW:1436g,</p> <p>Control: GA 28–29: 37% GA 30–31: 63% Mean BW: 1438 Gestational age</p> <p>Inclusion: GA 28+0–31+6 w BW >1000 g.</p> <p>Exclusion: >0.4 FiO₂, to maintain oxygen saturation above 90% after 20 min of life, intubation and mechanical ventilation, major congenital malformations, and maternal general anesthesia.</p>	<p>Median (IQR) age at randomization was 23 min (17–30).</p> <p>Two hours of early SSC between the mother and the infant.</p> <p>After a maximum SSC time of 2 hours, the infants were transferred to the NICU in an incubator.</p>	Standard care (SC) where the infant is separated from the mother and transferred to the neonatal unit in an incubator.	<p>Blood glucose before second feed.</p> <p>Hypoglycaemia (blood glucose<2.0 mmol/L)</p> <p>P= 0.22</p>	2/51 (4%)	0/57 (0%)

Author and year	Population	Intervention	Control	Outcomes	Experimental - data	Control - data
Chi Loung 2016 (10) RCT	<p>100 LBW infants randomized to intervention (50) or control (50).</p> <p>Intervention: Mean GA 33,6 weeks Mean BW 2060 g</p> <p>Control: Mean GA 33,9 weeks Mean BW 2081g</p> <p>Inclusion: low birthweight infants between 1500-2490 g., mothers should breastfeed.</p> <p>Exclusion: Malformation, chromosomal abnormality, life-threatening, severe asphyxia at birth, neonatal convulsions, multiple births, or mothers in poor health.</p>	Immediate STS the first 6 h after birth.	Infants were transferred to the NICU without their mother 30 minutes after birth.	<p>Blood glucose at 180 minutes</p> <p>Hypoglycaemia: (blood glucose < 2.6 mmol/l.)</p> <p>P value= 0.004</p>	2/50 (4%)	12/50 (24%)

Author and year	Population	Intervention	Control	Outcomes	Experimental - data	Control - data
Kristoffersen 2016 (11) Cohort study	<p>90 preterm infants from 3 NICUs, one is intervention (47 infants), two NICUs are control (43 infants).</p> <p>Intervention: Mean GA 33,7 weeks Mean BW 2,100 g.</p> <p>Control: Mean GA 34,4 weeks Mean BW 2,010 g.</p> <p>Inclusion: GA 32,0-34,6 weeks, single and twin, born vaginally, stable medical condition.</p> <p>Exclusion: Major congenital malformations</p>	STS for 2 hours immediately after birth and continued STS after transfer to NICU	Transferred immediately after birth to a NICU. SSC with their parents as soon as possible after admission to the NICU	<p>First blood glucose (150 to 180 minutes after the first feed)</p> <p>Hypoglycaemia (blood glucose < 2,5 mmol/L),</p> <p>P value = .539</p>	4/47 (8,5%)	4/43 (9%)

SCRIP score PICO 1						
Author and year	Population	Intervention	Control	Outcomes	Experimental - data	Control - data
Bergman 2004 (9) RCT	<p>31 infants randomised to intervention (18) or control (13).</p> <p>Intervention: Mean GA 34,2 week Mean BW 1813g</p> <p>Control: Mean GA 35,3 week Mean BW1866g</p> <p>Inclusion: low birthweight infants between 1200-2199 g., vaginally birth.</p> <p>Exclusion: Apgar score below 6 at 5 min. congenital malformations detected at birth.</p>	Immediate STS the first 6 hours after birth	Standardized incubator care and observations the first 6 hours after birth	<p>Cardio-respiratory stabilization score (SCRIP). SCRIP first 6 h</p> <p>Accumulated mean (SD)</p> <p>SCRIP in 6th hour Mean (SD)</p>	<p>Mean (SD) 77.11 (1,23)</p> <p>Mean (SD) 24.0 (0)</p>	<p>Mean (SD) 74.23 (4,19)</p> <p>Mean (SD)23.0 (1,22)</p>

Author and year	Population	Intervention	Control	Outcomes	Experimental - data	Control - data
Chi Loung 2016 (10) RCT	<p>100 LBW infants randomized to intervention (50) or control (50).</p> <p>Intervention: Mean GA 33,6 weeks Mean BW 2060 g</p> <p>Control: Mean GA 33,9 weeks Mean BW 2081g</p> <p>Inclusion: low birthweight infants between 1500-2490 g., mothers should breastfeed.</p> <p>Exclusion: Malformation, chromosomal abnormality, life-threatening, severe asphyxia at birth, neonatal convulsions, multiple births, or mothers in poor health.</p>	Immediate STS the first 6 h after birth.	Infants were transferred to the NICU without their mother 30 minutes after birth.	<p>Cardio-respiratory stabilization score (SCRIP) at 360 minutes (last score), mean (SD)</p> <p>P value=0,0001</p>	Mean (SD) 5.82 (0.66)	Mean (SD) 5.24 (0.72)

Author and year	Population	Intervention	Control	Outcomes	Experimental - data	Control - data
Linnér 2022 (13) RCT	<p>91 premature infants randomized to intervention (46) or control (45).</p> <p>Intervention: Mean GA 31,2 weeks Mean BW 1571g.</p> <p>Control: Mean GA 31,0 weeks Mean BW1494 g.</p> <p>Inclusion: GA 28+0 to 32+6 w, vaginal or cesarean birth, parent or surrogate caregiver prepared to start SSC in the first postnatal hour.</p> <p>Exclusion: Triplets or higher order births, congenital malformations, or congenital infection.</p>	Immediate STS with a parent the first 6 h after birth Mean age at initiation: 24 min.	Standardized incubator care and observations the first 6 h after birth.	<p>Cardio-respiratory stabilization score (SCRIP) at 360 minutes (last score)</p> <p>Mean (95% CI)</p>	<p>Mean (95% CI) 3.9 (3.6-4.2)</p>	<p>Mean (95% CI) 3.5 (3.2-3.8)</p>