

Table 1: Comparison between the children included in the study and those lost to follow-up at 8 years of age.

| | Study population at 2 years CA N=339 | Children assessed at age 2 and 8 N=244 | Children with no information at age 8 N=95 | p* |
|--------------------------------------|--|--|--|------|
| Gestational age (weeks), mean±SD | 30.1 ± 2.0 | 29.9 ± 2.0 | 30.5 ± 1.9 | 0.04 |
| Birthweight (gr), mean±SD | 1391 ± 404 | 1369 ± 406 | 1449 ± 395 | 0.11 |
| Multiple pregnancy, N(%) | 87 (26) | 66 (27) | 21 (22) | 0.35 |
| Antenatal corticosteroids, N(%) | 267 (81) | 192 (81) | 75 (81) | 1.0 |
| Surfactant, N(%) | 138 (41) | 96 (40) | 42 (45) | 0.39 |
| SGA**, N(%) | 27 (8) | 18 (7) | 9 (10) | 0.50 |
| Boys, N(%) | 173 (51) | 116 (48) | 49 (52) | 0.45 |
| Breastfeeding at discharge, N(%) | 62 (18) | 51 (21) | 11 (12) | 0.05 |
| Mother's educational level | | | | |
| low N(%) | 194 (59) | 136 (56) | 58 (66) | 0.08 |
| intermediate, N(%) | 64 (19) | 46 (19) | 18 (20) | |
| high, N(%) | 73 (22) | 61 (25) | 12 (14) | |
| HC† at 2 years CA (z-score), mean±SD | 0.6 ± 1.3 | 0.6 ± 1.3 | 0.6 ± 1.3 | 0.61 |
| Global DQ‡ at 2 years CA, mean±SD | 97 ± 12 | 97 ± 12 | 95 ± 12 | 0.18 |

*: p is for the comparison between children assessed at age 2 and 8 (N=244) and children assessed at age 2 but with no data at age 8 (N=95)

** : Small for Gestational Age, defined as babies with birth weight < 10th percentile for sex and GA

† : Head circumference at 2 years corrected age [16]

‡ : DQ : global Developmental Quotient, revised Brunet-Lezine test at 2 years corrected age [18]

Table 2: Schooling at age 8 according to the results of the DQ at 2 years CA and the MPC at age 5 in very preterm children free from disability or delay at 2 years CA.

| | DQ* 70-84 N=38 | | | DQ* 85-99 N=95 | | | DQ* ≥ 100 N=111 | | |
|---|----------------------|-------------------------|---------------------|----------------------|--------------------------|----------------------|----------------------|--------------------------|----------------------|
| | MPC** score at age 5 | | | MPC** score at age 5 | | | MPC** score at age 5 | | |
| | <-1SD N=17 (59%) | ≥-1SD-Mean N=8 (28%) | ≥ Mean N=4 (14%) | <-1SD N=39 (45%) | ≥-1SD-Mean N=30 (35%) | ≥ Mean N=17 (20%) | <-1SD N=17 (17%) | ≥-1SD-Mean N=33 (33%) | ≥ Mean N=52 (51%) |
| Schooling at age 8 | | | | | | | | | |
| specialised school or class | 5 (29%) | 0 (0%) | 0 (0%) | 3 (8%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| regular classroom environment, grade retained | 6 (35%) | 1 (13%) | 0 (0%) | 14 (36%) | 1 (3%) | 0 (0%) | 2 (12%) | 2 (6%) | 5 (10%) |
| age-appropriate grade level, support at school | 1 (6%) | 0 (0%) | 0 (0%) | 2 (5%) | 2 (7%) | 1 (6%) | 3 (18%) | 5 (15%) | 2 (4%) |
| age-appropriate grade level | 5 (29%) | 7 (87%) | 4 (100%) | 20 (51%) | 27 (90%) | 16 (94%) | 12 (71%) | 26 (79%) | 45 (87%) |
| Appropriate† schooling according to MPC** category | <i>p</i> =0.002 | | | <i>p</i> <0.001 | | | <i>p</i> =0.28 | | |

*: DQ : global Developmental Quotient, revised Brunet-Lezine test at 2 years corrected age [17]

** : MPC : Mental Processing Composite score, Kauffman Assessment Battery at age 5 [20]

†: Appropriate schooling: age-appropriate grade level in regular classroom environment without support at school.

SD and Mean for MPC are defined according to the results of the control group of term-born children in the Epipage Study [19]

p, comparison of the rate of age-appropriate grade level schooling versus support at school/grade retained/specialised school or class all together, according to the category of MPC in each category of DQ.

Table 3: Factors associated with **appropriate** schooling at age 8: univariate and multivariate (logistic regression) analysis.

| | UNIVARIATE ANALYSIS | | | MULTIVARIATE ANALYSIS | |
|--|--|---------------|--------|-----------------------|-------|
| | Schooling appropriate for age Yes* N (%) | No** N (%) | p | adjusted OR [95 % CI] | p |
| <i>Gestational age</i> | | | | | |
| 24 - 28 weeks (N=60) | 34 (57) | 26 (43) | <0.01 | 1.0 | |
| 29 - 32 weeks (N=184) | 138 (75) | 46 (25) | | 1.96 [1.01;3.83] | <0.05 |
| <i>Head circumference at 2years CA</i> | | | | | |
| < - 1 SD (N=18) | 8 (44) | 10(56) | 0.06 | 1.0 | |
| ≥ - 1 SD (N=222) | 161 (73) | 61 (27) | | 2.85 [1.01;8.08] | <0.05 |
| <i>Mother's educational level</i> | | | | | |
| low (N=136) | 84 (62) | 52 (38) | <0.01 | 1.0 | |
| intermediate (N=46) | 35 (76) | 11 (24) | | 2.26 [0.97;5.22] | 0.06 |
| high (N=61) | 52 (85) | 9 (15) | | 2.78 [1.21;6.38] | <0.05 |
| <i>Global DQ †</i> | | | | | |
| 70 to 84 (N=38) | 17 (45) | 21 (55) | <0.001 | 1.0 | |
| 85 to 99 (N=95) | 66 (69) | 29 (31) | | 2.31 [1.02;5.22] | <0.05 |
| ≥ 100 (N=111) | 89 (80) | 22 (20) | | 3.86 [1.67;8.92] | <0.01 |

*: being in **age-appropriate grade level in a regular classroom environment without support at school**

** : being in **age-appropriate grade level in a regular classroom environment with support at school, or in regular classroom environment with grade retained, or in a specialised class or school.**

†: DQ : global Developmental Quotient, revised Brunet-Lezine test at 2 years corrected age [17]