

APPENDIX-3A : Individual values for tissue magnesium stores (Liver, spleen and muscle).

| Subject No. | Weeks of gestation | Fetal weight (g) | Weight as % expected weight | Liver                | Spleen       | Muscle               | Maternal serum magnesium (mg/dl) |
|-------------|--------------------|------------------|-----------------------------|----------------------|--------------|----------------------|----------------------------------|
|             |                    |                  |                             | Concentration (mg/g) | Content (mg) | Concentration (mg/g) |                                  |
| 1           | 2                  | 3                | 4                           | 5                    | 6            | 7                    | 8                                |

Gestational age group /20 weeks, Low income group

|     |      |     |     |       |       |       |                  |      |
|-----|------|-----|-----|-------|-------|-------|------------------|------|
| 91  | 15.4 | 153 | 85  | 0.074 | 0.745 | -     | -                | 1.72 |
| 93  | 11.5 | 13  | 48  | 0.137 | 0.084 | -     | <del>0.095</del> | 2.77 |
| 102 | 13.1 | 53  | 65  | 0.070 | 0.147 | -     | 0.095            | 2.24 |
| 104 | 16.0 | 143 | 72  | 0.075 | 0.424 | 0.173 | 0.014            | -    |
| 90  | 16.0 | 133 | 67  | -     | -     | 0.149 | 0.023            | 2.88 |
| 105 | 15.2 | 161 | 96  | 0.037 | 0.222 | 0.059 | 0.065            | -    |
| 99  | 15.0 | 85  | 55  | 0.062 | 0.186 | -     | -                | 2.81 |
| 125 | 12.6 | 69  | 94  | 0.065 | 0.230 | -     | -                | 1.85 |
| 109 | 14.4 | 181 | 133 | 0.052 | 0.485 | -     | -                | -    |
| 117 | 14.1 | 91  | 78  | 0.078 | 0.200 | -     | -                | 2.08 |
| 118 | 15.2 | 171 | 102 | 0.034 | 0.214 | -     | -                | -    |
| 116 | 15.0 | 160 | 103 | 0.032 | 0.172 | 0.052 | 0.008            | 1.78 |
| 153 | 15.0 | 122 | 79  | 0.163 | 0.632 | 2.440 | 0.190            | -    |
| 154 | 14.0 | 90  | 82  | 0.275 | 1.160 | 2.020 | 0.080            | -    |
| 128 | 14.6 | 87  | 59  | 0.094 | 0.330 | 0.727 | 0.070            | -    |
| 130 | 14.0 | 55  | 50  | 0.104 | 0.300 | -     | -                | -    |
| 106 | 19.5 | 327 | 74  | 0.049 | 0.592 | 0.028 | 0.010            | -    |

Appendix-3A (Contd.)

| 1   | 2    | 3   | 4   | 5     | 6     | 7     | 8     | 9     | 10 |
|-----|------|-----|-----|-------|-------|-------|-------|-------|----|
| 156 | 19.5 | 381 | 87  | 0.294 | 2.77  | 0.134 | 0.060 | 0.065 | -  |
| 157 | 17.5 | 264 | 83  | 0.184 | 1.68  | 0.367 | 0.050 | 0.172 | -  |
| 158 | 17.5 | 217 | 71  | 0.680 | 6.49  | 4.310 | 0.470 | 0.131 | -  |
| 142 | 19.0 | 376 | 96  | 0.120 | 2.600 | 0.117 | 0.070 | 0.071 | -  |
| 161 | 16.0 | 201 | 100 | 0.383 | 2.560 | -     | -     | 0.157 | -  |
| 152 | 16.3 | 181 | 80  | 0.095 | 0.460 | -     | -     | 1.000 | -  |
| 129 | 16.0 | 192 | 95  | 0.124 | 0.590 | -     | -     | 0.025 | -  |
| 131 | 17.5 | 222 | 74  | 0.094 | 0.810 | 0.240 | 0.22  | 0.068 | -  |
| 133 | 19.4 | 290 | 67  | 0.103 | 0.780 | -     | -     | 0.286 | -  |
| 147 | 17.0 | 201 | 77  | 0.047 | 0.090 | -     | -     | 0.163 | -  |

Gestational age group > 20 weeks, Low income group

|     |      |      |    |       |       |       |       |       |      |
|-----|------|------|----|-------|-------|-------|-------|-------|------|
| 119 | 23.3 | 650  | 85 | 0.051 | 1.353 | 0.054 | 0.042 | 0.050 | 1.66 |
| 107 | 21.0 | 263  | 48 | 0.026 | 0.320 | 0.040 | 0.005 | -     | -    |
| 155 | 22.0 | 415  | 66 | 0.052 | 1.070 | 0.170 | 0.118 | 0.167 | -    |
| 151 | 22.4 | 378  | 55 | 0.035 | 0.450 | -     | -     | 0.194 | -    |
| 146 | 23.0 | 318  | 43 | 0.128 | 1.720 | 0.154 | 0.039 | 0.140 | -    |
| 132 | 24.0 | 520  | 63 | 0.077 | 2.580 | 0.117 | 0.190 | 0.104 | -    |
| 92  | 26.0 | 494  | 55 | 0.072 | 1.008 | 0.130 | 0.079 | 0.171 | -    |
| 89  | 25.3 | 375  | 40 | -     | -     | -     | 0.033 | 0.030 | -    |
| 98  | 36.0 | 2800 | 97 | 0.044 | 4.752 | 0.039 | 0.290 | 0.049 | 2.00 |

APPENDIX-3A (Contd.)

| 1   | 2    | 3   | 4   | 5     | 6     | 7     | 8     | 9     | 10   |
|-----|------|-----|-----|-------|-------|-------|-------|-------|------|
| 121 | 18.3 | 270 | 77  | 0.035 | 0.312 | 0.037 | 0.011 | 0.064 | -    |
| 120 | 16.5 | 139 | 57  | 0.050 | 0.335 | 0.025 | 0.004 | 0.077 | 2.35 |
| 112 | 20.0 | 333 | 72  | 0.030 | 0.303 | -     | -     | 0.059 | -    |
| 122 | 16.6 | 180 | 72  | 0.030 | 0.260 | 0.182 | 0.031 | 0.121 | -    |
| 111 | 18.4 | 333 | 92  | 0.052 | 0.703 | -     | -     | 0.050 | 1.72 |
| 123 | 17.6 | 250 | 81  | 0.044 | 0.355 | -     | -     | 0.069 | 1.93 |
| 127 | 17.5 | 264 | 88  | 0.084 | 0.847 | 0.062 | 0.007 | 0.081 | -    |
| 114 | 19.5 | 279 | 64  | 0.027 | 0.218 | 0.045 | 0.018 | 0.040 | -    |
| 126 | 16.6 | 213 | 85  | 0.051 | 0.390 | -     | -     | 0.073 | 1.78 |
| 96  | 17.0 | 171 | 67  | 0.056 | 0.390 | -     | -     | 0.063 | 1.82 |
| 101 | 18.2 | 213 | 63  | 0.014 | 0.129 | 0.182 | 0.052 | 0.038 | -    |
| 103 | 17.5 | 227 | 76  | 0.035 | 0.340 | 0.127 | 0.033 | 0.079 | -    |
| 94  | 18.6 | 250 | 66  | -     | -     | 0.265 | 0.063 | 0.105 | -    |
| 95  | 19.0 | 307 | 79  | -     | -     | 0.193 | 0.026 | 0.053 | 2.30 |
| 100 | 18.3 | 280 | 81  | -     | -     | 0.055 | 0.026 | 0.045 | -    |
| 113 | 17.4 | 260 | 88  | -     | -     | 0.326 | 0.064 | -     | -    |
| 108 | 17.5 | 213 | 70  | 0.039 | 0.335 | 0.295 | 0.066 | -     | -    |
| 97  | 17.6 | 152 | 49  | 0.043 | 0.209 | 0.037 | 0.006 | 0.044 | -    |
| 115 | 17.4 | 314 | 107 | 0.025 | 0.250 | -     | -     | 0.053 | -    |
| 124 | 20.0 | 327 | 71  | 0.066 | 0.971 | 0.055 | 0.024 | 0.062 | 2.45 |
| 110 | 19.2 | 225 | 55  | 0.040 | 0.447 | 0.030 | 0.006 | 0.080 | 2.03 |

Appendix-3A (Contd.)

| 1   | 2    | 3    | 4  | 5     | 6     | 7     | 8     | 9     | 10 |
|-----|------|------|----|-------|-------|-------|-------|-------|----|
| 119 | 27.0 | 650  | 85 | 0.051 | 1.353 | 0.054 | 0.042 | 0.050 | -  |
| 160 | 35.1 | 1735 | 52 | 0.136 | 4.380 | 0.117 | 0.320 | 0.094 | -  |
| 150 | 26.6 | 1000 | 89 | 0.079 | 3.290 | 0.102 | 0.200 | 0.141 | -  |
| 149 | 24.2 | 730  | 86 | 0.109 | 5.000 | 0.108 | 0.230 | 0.128 | -  |
| 148 | 24.2 | 575  | 68 | 0.134 | 5.20  | 0.143 | 0.330 | 0.109 | -  |
| 145 | 37.4 | 2400 | 73 | 0.139 | 15.80 | 0.153 | 1.150 | -     | -  |
| 159 | 30.5 | 1626 | 88 | 0.073 | 5.06  | 0.085 | 0.260 | 0.162 | -  |

APPENDIX-3B : Individual values for tissue magnesium stores (heart and kidney)

| Subject No. | Weeks of gestation | Fetal weight (g) | Weight as % expected weight | Heart                |              | Kidney               |              | Maternal serum magnesium (mg/dl) |
|-------------|--------------------|------------------|-----------------------------|----------------------|--------------|----------------------|--------------|----------------------------------|
|             |                    |                  |                             | Concentration (mg/g) | Content (mg) | Concentration (mg/g) | Content (mg) |                                  |
| 1           | 2                  | 3                | 4                           | 5                    | 6            | 7                    | 8            | 9                                |

Gestational age group /20 weeks, Low income group

|     |      |      |     |       |       |       |       |      |
|-----|------|------|-----|-------|-------|-------|-------|------|
| 91  | 15.4 | 153  | 85  | 0.137 | 0.109 | 0.093 | 0.133 | 1.72 |
| 93  | 11.5 | 13   | 48  | 0.324 | 0.028 | 0.265 | 0.021 | 2.77 |
| 102 | 13.1 | 53   | 65  | 0.159 | 0.074 | 0.158 | 0.076 | 2.24 |
| 104 | 16.0 | 143  | 72  | 0.073 | 0.079 | 0.213 | 0.248 | -    |
| 90  | 16.0 | 133  | 67  | 0.058 | 0.045 | 0.189 | 0.119 | 2.88 |
| 88  | 14.0 | 28.5 | 63  | 0.518 | 0.070 | 0.244 | 0.049 | 2.25 |
| 105 | 15.2 | 161  | 96  | 0.111 | 0.099 | 0.059 | 0.086 | -    |
| 99  | 15.0 | 85   | 55  | 0.023 | 0.011 | 0.089 | 0.084 | 2.81 |
| 125 | 12.6 | 69   | 94  | 0.093 | 0.036 | -     | -     | 1.85 |
| 109 | 14.4 | 181  | 133 | -     | -     | 0.025 | 0.050 | -    |
| 117 | 14.1 | 91   | 78  | 0.104 | 0.090 | 0.008 | 0.009 | 2.08 |
| 118 | 15.2 | 171  | 102 | 0.109 | 0.129 | 0.055 | 0.043 | -    |
| 116 | 15.0 | 160  | 103 | 0.049 | 0.053 | 0.048 | 0.076 | 1.78 |
| 153 | 15.0 | 122  | 79  | 0.154 | 0.127 | 0.191 | 0.118 | -    |
| 154 | 14.0 | 90   | 82  | 0.481 | 0.180 | 0.260 | 0.160 | -    |

Appendix-3B (Contd.)

| 1   | 2    | 3   | 4   | 5     | 6     | 7     | 8     | 9    |
|-----|------|-----|-----|-------|-------|-------|-------|------|
| 128 | 14.6 | 87  | 59  | 0.235 | 0.190 | 0.074 | 0.060 | -    |
| 130 | 14.0 | 55  | 50  | 0.317 | 0.100 | 0.103 | 0.030 | -    |
| 106 | 19.5 | 327 | 74  | 0.026 | 0.055 | 0.076 | 0.201 | -    |
| 121 | 18.3 | 270 | 77  | 0.016 | 0.020 | 0.077 | 0.118 | -    |
| 120 | 16.5 | 139 | 57  | 0.070 | 0.048 | 0.085 | 0.106 | 2.35 |
| 112 | 20.0 | 333 | 72  | 0.036 | 0.067 | 0.062 | 0.142 | -    |
| 122 | 16.6 | 180 | 72  | 0.107 | 0.110 | 0.111 | 0.165 | -    |
| 111 | 18.4 | 333 | 92  | 0.055 | 0.100 | 0.058 | 0.152 | 1.72 |
| 123 | 17.6 | 250 | 81  | 0.047 | 0.069 | 0.066 | 0.141 | 1.93 |
| 127 | 17.5 | 264 | 88  | 0.114 | 0.155 | 0.057 | 0.157 | -    |
| 114 | 19.5 | 279 | 64  | 0.002 | 0.003 | 0.034 | 0.066 | -    |
| 126 | 16.6 | 213 | 85  | 0.075 | 0.102 | 0.129 | 0.295 | 1.78 |
| 96  | 17.0 | 171 | 67  | 0.014 | 0.012 | -     | -     | 1.82 |
| 101 | 18.2 | 213 | 63  | 0.180 | 0.242 | -     | -     | -    |
| 103 | 17.5 | 227 | 76  | 0.025 | 0.031 | 0.059 | 0.102 | -    |
| 95  | 19.0 | 307 | 79  | -     | -     | 0.110 | 0.150 | 2.30 |
| 100 | 18.3 | 280 | 81  | -     | -     | 0.059 | 0.128 | -    |
| 94  | 18.6 | 250 | 66  | -     | -     | 0.175 | 0.304 | -    |
| 108 | 17.5 | 213 | 70  | 0.174 | 0.203 | 0.041 | 0.076 | -    |
| 97  | 17.6 | 152 | 49  | -     | -     | 0.024 | 0.026 | -    |
| 115 | 17.4 | 314 | 107 | 0.039 | 0.077 | 0.056 | 0.119 | -    |

Appendix-3B (Contd.)

| 1                                                           | 2    | 3   | 4   | 5     | 6     | 7     | 8     | 9    |
|-------------------------------------------------------------|------|-----|-----|-------|-------|-------|-------|------|
| 124                                                         | 20.0 | 327 | 71  | 0.032 | 0.056 | -     | -     | 2.45 |
| 110                                                         | 19.2 | 225 | 55  | 0.066 | 0.070 | 0.055 | 0.108 | 2.03 |
| 156                                                         | 19.5 | 381 | 87  | 0.133 | 0.300 | 0.146 | 0.380 | -    |
| 157                                                         | 17.5 | 264 | 83  | 0.571 | 0.580 | 0.163 | 0.330 | -    |
| 158                                                         | 17.5 | 217 | 71  | 0.216 | 0.220 | 0.286 | 0.380 | -    |
| 142                                                         | 19.0 | 376 | 96  | 0.081 | 0.170 | 0.020 | 0.050 | -    |
| 161                                                         | 16.0 | 201 | 100 | 0.257 | 0.300 | 0.099 | 0.130 | -    |
| 152                                                         | 16.3 | 181 | 80  | 0.051 | 0.050 | 0.031 | 0.040 | -    |
| 129                                                         | 16.0 | 192 | 95  | 0.348 | 0.260 | 0.211 | 0.220 | -    |
| 131                                                         | 17.5 | 222 | 74  | 0.203 | 0.140 | -     | -     | -    |
| 133                                                         | 19.4 | 290 | 67  | 0.224 | 0.220 | 0.321 | 0.620 | -    |
| 147                                                         | 17.0 | 201 | 77  | 0.031 | 0.030 | 0.154 | 0.130 | -    |
| <u>Gestational age group &gt;20 weeks: Low income group</u> |      |     |     |       |       |       |       |      |
| 119                                                         | 23.3 | 650 | 85  | 0.027 | 0.149 | 0.052 | 0.284 | 1.66 |
| 107                                                         | 21.0 | 263 | 48  | -     | -     | 0.077 | 0.185 | -    |
| 155                                                         | 22.0 | 415 | 66  | 0.600 | 1.580 | 0.147 | 0.510 | -    |
| 151                                                         | 22.4 | 378 | 55  | 0.092 | 0.188 | 0.104 | 0.250 | -    |
| 146                                                         | 23.0 | 318 | 43  | 0.122 | 0.160 | 0.159 | 0.370 | -    |
| 132                                                         | 24.0 | 520 | 63  | 0.094 | 0.330 | 0.156 | 0.530 | -    |

Appendix-3B (Contd.)

| 1   | 2    | 3    | 4  | 5     | 6     | 7     | 8     | 9    |
|-----|------|------|----|-------|-------|-------|-------|------|
| 92  | 26.0 | 494  | 55 | 0.127 | 0.262 | 0.150 | 0.466 | -    |
| 89  | 25.3 | 375  | 40 | 0.031 | 0.096 | 0.015 | 0.055 | -    |
| 98  | 36.0 | 2800 | 97 | 0.030 | 0.446 | 0.027 | 0.454 | 2.00 |
| 119 | 27.0 | 650  | 85 | 0.027 | 0.149 | 0.052 | 0.284 | -    |
| 160 | 35.1 | 1735 | 52 | 0.125 | 1.810 | 0.124 | 1.140 | -    |
| 150 | 26.6 | 1000 | 89 | 0.139 | 0.920 | 0.135 | 1.220 | -    |
| 159 | 30.5 | 1626 | 88 | 0.134 | 1.480 | 0.113 | 2.010 | -    |
| 149 | 24.2 | 730  | 86 | 0.108 | 0.710 | 0.105 | 0.870 | -    |
| 148 | 24.2 | 575  | 68 | 0.106 | 0.450 | 0.126 | 0.590 | -    |
| 145 | 37.4 | 2400 | 73 | -     | -     | 0.118 | 1.780 | -    |