**Table 1. Measures**

|  |  |  |
| --- | --- | --- |
| Variable | Tool | Recall Period |
| Demographics & medical data | Specific protocol | At present |
| Health-related quality of life | KIDSCREEN-52 | At present |
| Self-perceived health | SF-12v2 | At present |
| Perceived social support | Visual Analogue Scale | Retrospectivea |
| Coping | ACS | Retrospectiveb |

**a**Assessment refers to the entire oncological experience (from diagnosis to discharge).

**b**Assessment refers to the worst situation experienced by the individual (subjective point) throughout

hospitalization.

**Tabla 2.** **Demographical and Clinical Characteristics of the Sample (N = 41)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | N | | % | |
| Gender | | | | |
| Male | 26 | | 63.4 | |
| Female | 15 | | 36.6 | |
| Education | | | | |
| Secondary school | 15 | | 36.6 | |
| High school and other equivalent courses | 23 | | 56.1 | |
| College (finished or ongoing) | 3 | | 7.3 | |
| Diagnosis | | | | |
| Leukemia | 14 | | 34.1 | |
| Lymphoma | 18 | | 43.9 | |
| Other solid tumors | 9 | | 22 | |
| Treatment | | | | |
| Chemotherapy solely | 14 | | 34.15 | |
| Surgical intervention solely | 1 | | 2.44 | |
| Combined therapya | 26 | | 63.41 | |
| Bone Marrow Transplant | | | | |
| Yes | 11 | | 26.8 | |
| No | 30 | | 73.2 | |
| Relapse | | | | |
| Yes | 4 | | 9.75 | |
| No | 37 | | 90.25 | |
| Second neoplasm | | | | |
| Yes | | 1 | | 2.4 |
| No | | 40 | | 97.6 |
|  | | **Mean** | | **Range** |
| Age at assessment | | 17 (1.94) | | 13 – 20 |
| Age at diagnosis (in years) | | 11.76 (2.55) | | 8 – 16 |
| Time since diagnosis (in years) | | 5.80 (2.61) | | 2 – 11 |
| People living at home (including the adolescent) | | 3.85 (0.88) | | 2 – 6 |

aIt includes several combinations: chemotherapy + radiotherapy, chemotherapy +

surgical intervention, chemotherapy + surgical intervention + radiotherapy, radiotherapy

+ surgical intervention.

**Table 3. Descriptive Statistics for HRQoL (N = 41)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Dimension | Group | Mean (SD) | Range  (Min – Max) | Median | p |
| Kidscreen-52 | **Physical well-being** | H-HRQoL (n = 18) | 51.96 (6.58) | 42.53 – 64.30 | 52.43 | .002 |
| A-HRQoL (n = 23) | 44.61 (6.24) | 30.57 – 52.43 | 47.08 |
| **Psychological well-being** | H-HRQoL (n = 18) | 55.55 (8.17) | 41.53 – 68.49 | 53.14 | .026 |
| A-HRQoL (n = 23) | 48.61 (8.37) | 38.37 – 68.49 | 47.12 |
| **Mood state** | H-HRQoL (n = 18) | 58.41 (8.81) | 41.21 – 70.91 | 57.39 | .001 |
| A-HRQoL (n = 23) | 47.21 (8.93) | 32.51 – 70.91 | 45.44 |
| **Self-perception** | H-HRQoL (n = 18) | 48.66 (5.28) | 40.52 – 60.11 | 47.78 | n.s. |
| A-HRQoL (n = 23) | 47.09 (6.59) | 37.85 – 69.78 | 46.08 |
| **Autonomy** | H-HRQoL (n = 18) | 57.28 (5.55) | 50.77 – 68.75 | 56.27 | .006 |
| A-HRQoL (n = 23) | 51.67 (7.67) | 37.35 – 68.75 | 50.77 |
| **Parent relations & home life** | H-HRQoL (n = 18) | 54.43 (7.99) | 42.55 – 65.87 | 51.81 | .047 |
| A-HRQoL (n = 23) | 48.57 (9.65) | 35.66 – 65.87 | 49.50 |
| **Social support & peers** | H-HRQoL (n = 18) | 59.46 (8.83) | 42.20 – 71.46 | 56.53 | n.s. |
| A-HRQoL (n = 23) | 55.46 (8.79) | 36.81 – 71.46 | 54.93 |
| **School environment** | H-HRQoL (n = 18) | 52.36 (6.51) | 42.35 – 65.94 | 50.37 | .019 |
| A-HRQoL (n = 23) | 47.43 (5.64) | 35.35 – 56.40 | 46.94 |
| **Social acceptance/bullying** | H-HRQoL (n = 18) | 55.20 (6.25) | 42.20 – 58.85 | 58.85 | .012 |
| A-HRQoL (n = 23) | 47.50 (10.41) | 31.08 – 58.85 | 48.07 |
| **Financial resources** | H-HRQoL (n = 18) | 57.62 (6.92) | 41.92 – 62.86 | 62.86 | .000 |
| A-HRQoL (n = 23) | 46.27 (7.29) | 35.12 – 62.86 | 46.59 |
| SF-12v2 | **Mental component scale** | H-HRQoL (n = 18) | 55.05 (2.84) | 51.45 – 62.08 | 56.96 | n.s. |
| A-HRQoL (n = 23) | 53.82 (5.99) | 37.69 – 61.00 | 55.09 |
| **Physical component scale** | H-HRQoL (n = 18) | 56.80 (5.01) | 46.86 – 64.47 | 59.43 | .024 |
| A-HRQoL (n = 23) | 52.57 (7.38) | 40.79 – 68.43 | 51.41 |

n.s.: no significant differences according to Mann-Whitney U test (p > .05).

Abbreviations: HRQoL, Health-related Quality of life; H-HRQoL, High Health-related Quality of Life; A-HRQoL, Average Health-Related Quality of Life

**Table 4. Descriptive Statistics for Perceived Social Support (N = 41)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | H-HRQoL | | | A-HRQoL | | |  |
|  |  | ***Mean (SD)*** | ***Range*** | ***n*** | ***Mean (SD)*** | ***Range*** | ***n*** | ***p*** |
| *Emotional support* | ***Parents*** | 9.83 (0.51) | 8 – 10 | 18 | 9.65 (0.57) | 8 – 10 | 23 | n.s. |
| ***Other relatives*** | 9.00 (2.00) | 2 – 10 | 18 | 8.57 (1.38) | 6 – 10 | 23 | n.s. |
| ***Friends*** | 8.22 (1.70) | 5 – 10 | 18 | 7.04 (2.01) | 3 – 10 | 23 | n.s. |
| ***Practitioners*** | 8.78 (1.21) | 6 – 10 | 18 | 8.04 (1.72) | 5 – 10 | 23 | n.s. |
| ***Nurses*** | 8.94 (0.94) | 7 – 10 | 18 | 7.96 (1.80) | 3 – 10 | 23 | .056 |
| ***Others*** | 8.57 (1.51) | 7 – 10 | 7 | 7.57 (1.27) | 6 – 10 | 7 | n.s. |
| *Informative support* | ***Parents*** | 8.22 (1.31) | 5 – 10 | 18 | 7.13 (3.03) | 1 – 10 | 23 | n.s. |
| ***Other relatives*** | 5.28 (3.37) | 0 – 10 | 18 | 4.22 (3.45) | 0 – 10 | 23 | n.s. |
| ***Friends*** | 2.89 (3.25) | 0 – 10 | 18 | 2.09 (2.78) | 0 – 7 | 23 | n.s. |
| ***Practitioners*** | 8.67 (1.57) | 5 – 10 | 18 | 7.96 (2.57) | 0 – 10 | 23 | n.s. |
| ***Nurses*** | 7.72 (2.61) | 0 – 10 | 18 | 7.17 (2.53) | 0 – 10 | 23 | n.s. |
| ***Others*** | 9.00 (1.41) | 8 – 10 | 2 | 6.67 (0.58) | 6 – 7 | 3 | n.s. |

n.s.: no significant differences according to Mann-Whitney U test (p > .05).

Abbreviations: H-HRQoL, High Health-related Quality of Life; A-HRQoL, Average Health-Related Quality of Life

**Table 5. Descriptive Statistics for Coping (N = 41)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Coping dimension | Group | Mean (SD) | Range (Min – Max) | Median | P |
| Social support | H-HRQoL (n = 18) | 50.44 (9.11) | 36 – 68 | 52 | n.s. |
| A-HRQoL (n = 23) | 57.57 (16.52) | 36 – 100 | 52 |
| Focus on solving the problem | H-HRQoL (n = 18) | 53.78 (19.46) | 20 – 84 | 56 | n.s. |
| A-HRQoL (n = 23) | 64.70 (14.20) | 36 – 88 | 64 |
| Work hard and achieve | H-HRQoL (n = 18) | 47.56 (18.71) | 20 – 80 | 46 | .019 |
| A-HRQoL (n = 23) | 61.22 (13.98) | 40 – 92 | 64 |
| Worry | H-HRQoL (n = 18) | 64.22 (17.22) | 32 – 92 | 66 | n.s. |
| A-HRQoL (n = 23) | 70.09 (15.39) | 32 – 100 | 68 |
| Invest in close friends | H-HRQoL (n = 18) | 40.22 (15.18) | 20 – 68 | 38 | n.s. |
| A-HRQoL (n = 23) | 49.39 (18.23) | 20 – 100 | 48 |
| Seek to belong | H-HRQoL (n = 18) | 52.22 (14.81) | 16 – 80 | 50 | n.s. |
| A-HRQoL (n = 23) | 60.70 (16.21) | 36 – 88 | 56 |
| Wishful thinking | H-HRQoL (n = 18) | 65.11 (15.93) | 44 – 96 | 64 | n.s. |
| A-HRQoL (n = 23) | 68.52 (14.93) | 36 – 96 | 68 |
| Not coping | H-HRQoL (n = 18) | 36.67 (12.06) | 20 – 60 | 34 | n.s. |
| A-HRQoL (n = 23) | 42.61 (10.21) | 24 – 72 | 44 |
| Tension reduction | H-HRQoL (n = 18) | 34.89 (13.00) | 20 – 60 | 30 | n.s. |
| A-HRQoL (n = 23) | 40.52 (13.45) | 20 – 76 | 40 |
| Social action | H-HRQoL (n = 18) | 26.11 (6.76) | 20 – 40 | 25 | .003 |
| A-HRQoL (n = 23) | 35.43 (11.17) | 20 – 70 | 35 |
| Ignore the problem | H-HRQoL (n = 18) | 38.06 (17.16) | 20 – 80 | 40 | n.s. |
| A-HRQoL (n = 23) | 34.57 (14.37) | 20 – 60 | 30 |
| Self-blame | H-HRQoL (n = 18) | 31.11 (16.85) | 20 – 75 | 25 | n.s. |
| A-HRQoL (n = 23) | 36.09 (13.48) | 20 – 60 | 35 |
| Keep to self | H-HRQoL (n = 18) | 47.50 (21.30) | 20 – 95 | 47.50 | n.s. |
|  | A-HRQoL (n = 23) | 49.35 (16.05) | 20 – 90 | 45 |
| Seek spiritual relief | H-HRQoL (n = 18) | 28.33 (9.39) | 20 – 55 | 25 | .015 |
|  | A-HRQoL (n = 23) | 38.04 (16.29) | 20 – 90 | 30 |
| Focus on the positive | H-HRQoL (n = 18) | 71.11 (18.59) | 45 – 100 | 72.50 | n.s. |
|  | A-HRQoL (n = 23) | 72.83 (15.65) | 40 – 95 | 75 |
| Seek professional help | H-HRQoL (n = 18) | 50.00 (21.21) | 20 – 95 | 50 | n.s. |
|  | A-HRQoL (n = 23) | 55.43 (26.79) | 20 – 95 | 55 |
| Seek relaxing diversions | H-HRQoL (n = 18) | 57.94 (24.81) | 21 – 105 | 52.50 | .031 |
|  | A-HRQoL (n = 23) | 72.43 (16.83) | 42 – 105 | 70 |
| Physical recreation | H-HRQoL (n = 18) | 40.06 (20.63) | 21 – 91 | 35 | n.s. |
|  | A-HRQoL (n = 23) | 39.26 (20.76) | 21 – 98 | 35 |

n.s.: no significant differences according to Mann-Whitney U test (p > .05).

Abbreviations: H-HRQoL, High Health-related Quality of Life; A-HRQoL, Average Health-Related Quality of Life

**Table 6. Classification Matrix**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Overall HRQoL | | | Predicted group membership | | Total |
|  | | | **High** | **Average** |  |
| Original | Count | High | 13 | 5 | 18 |
| Average | 4 | 19 | 23 |
| Percentage | High  Average | **72.2**  17.4 | 27.8  **82.6** | 100.0  100.0 |
|  |

a.78% correctly classified

Abbreviations: HRQoL, Health-related Quality of life

**Table 7. Discriminant Equations Obtained**

|  |
| --- |
| GLOBAL DISCRIMINANT EQUATION |
| DI = 1.045 - .477Xa + .094Xb |
| H-HRQoL |
| D = 3.838 (Emotional support from nurses) + .146 (Social action) – 19.759 |
| A-HRQoL |
| D = 3.194 (Emotional support from nurses) + .273 (Social action) – 18.237 |

Di = discriminant score for an adolescent (i)

Xa = total score of emotional support received by an adolescent (i) by the nurses.

Xb = total score of the use of the “social action” coping strategy for an adolescent (i)

Abbreviations: H-HRQoL, High Health-related Quality of Life; A-HRQoL, Average Health-Related Quality of Life