# Kingston Standardized Behavioural Assessment

## Community Form[1] - KSBA comm

KINGSTON SCALES

Patient Name _____  [Case # _____ ]

Sex M___ F___   Age_____   Education_____   Years of Illness_____

Date _____ Your Relationship to Patient _____

Lives in Community_____   (If in Care Facility, use KSBA(LTC) form.

**Please check all of the following behaviours that have occurred in the last month or are presently occurring, and that are a change from the person's earlier behaviour (prior to illness).**   Indicate whether they apply by marking the box beside the appropriate statement.  The Total Score equals number of boxes checked.

### 1  Daily Activities

1  No longer takes part in favourite pastimes (or greatly reduced).

2  Reduced personal hygiene . (e.g. Would not take a bath unless told to do so, or wears the same clothes for days unless made to change).

3  If left on his/her own, doesn't eat properly.

4  Unsafe in daily activities, if left unsupervised.

5  No longer uses some common objects properly (e.g. telephone).

6  Unable to handle personal finances.

7  Is unable to perform usual household tasks.

8  Gets confused in places other than home.

9  Overly dependent, wants more guidance than usual.

10  Trouble appreciating subtleties in conversations (e.g. recognizing humor).

11  Difficulty judging the passing of time.

12  Wanders aimlessly.

13  Hides  things.

14  Hoards objects.

15  Fails to recognize family or friends.

16  Incontinence of urine/faeces in clothes in daytime.

17  Voids in non-toilet areas.

**<  Total Daily Activities**

### 2  Attention/Concentration/Memory

18  Can't concentrate, pay attention for long.

19  Misplaces things more than usual.

20  Has difficulty organizing his/her time or daily activities.

21  Forgets activities, conversations of only a short time before.

22  Forgets important everyday information.

**<  Total Attention/Concentration/Memory**

### 3  Emotional Behaviour

23  Shows little or no emotion.

24  Mood changes for no apparent reason.

25  Expresses inappropriate emotions, either type or intensity.

26  Makes uncharacteristically pessimistic statements.

**<  Total Emotional Behaviour**

### 4  Aggressive Behaviour

27  Verbally abusive at times.

28  Uncharacteristically excitable, easy to upset; reacts catastrophically.

29  Attempts to hit/strike out at others.

**<  Total Aggressive Behaviour**

### 5  Misperceptions/Misidentifications

30  Claims an object/possession looks similar to, but is not the real one.

31  Claims a family member looks similar but is not the true one.

32  Thinks present dwelling is not their place of living.

33  Thinks people are present who aren't.

**<  Total Misperception Behaviour**

**Name:**_____  **Date:**_____  **[Case #:_____]**

## 6  Paranoid Behaviour

| | |
|---|---|
| ☐ | 34  Suspicious of family and friends. |
| ☐ | 35  Suspicious about money issues. |
| ☐ | 36  Accuses others of stealing his or her things. |
| ☐ | 37  Accuses spouse of infidelity. |
| ☐ | 38  Expresses suspicion around taking medication. |
| ☐ | **<  *Total Paranoid Behaviour*** |

## 7  Judgement/Insight

| | |
|---|---|
| ☐ | 39  Shows poor judgement in social situations. |
| ☐ | 40  Shows poor judgement about driving. |
| ☐ | 41  Shows uncharacteristic change in his or her concern about money. |
| ☐ | 42  Poor choices in dressing. (e.g. wears clothes that are inappropriate for season or temperature, wears the same clothes for days). |
| ☐ | 43  Makes inappropriate sexual advances. |
| ☐ | 44  Shows less self control than usual. |
| ☐ | 45  Unable to identify personal safety risks. |
| ☐ | **<  *Total Judgement/Insight*** |

## 8  Perseveration

| | |
|---|---|
| ☐ | 46  Repeats same actions over and over. |
| ☐ | 47  Repeats same words or phrases. |
| ☐ | 48  Repeatedly shouts or calls out. |
| ☐ | **<  *Total Perseveration*** |

## 9  Motor Restlessness

| | |
|---|---|
| ☐ | 49  Desire to pace or walk almost constantly. |
| ☐ | 50  Can't sit still, restless, fidgety. |
| ☐ | 51  Tries doors, windows. |
| ☐ | **<  *Total Motor Restlessness*** |

## 10  Sleep/Activity/Sundowning

| | |
|---|---|
| ☐ | 52  Falls asleep at uncharacteristic times. |
| ☐ | 53  Gets up and wanders or awakens frequently at night, more than usual. |
| ☐ | 54  Sleeps more. |
| ☐ | 55  Behaviour more agitated or impaired in late afternoon. |
| ☐ | **<  *Total Sleep/Activity/Sundowning*** |

## 11  Motor/Spatial Problems

| | |
|---|---|
| ☐ | 56  Poor coordination seen in limb/finger movements. |
| ☐ | 57  Slowness of movement. |
| ☐ | 58  Unsteadiness when walking. |
| ☐ | 59  Has trouble dressing, especially with buttons or shoelaces. |
| ☐ | 60  Difficulty judging object sizes or how near an object is from themselves. |
| ☐ | **<  *Total Motor Spatial Problems*** |

## 12  Language Difficulties

| | |
|---|---|
| ☐ | 61  Reads far less frequently than previously. |
| ☐ | 62  Substitutes some words for others. |
| ☐ | 63  Does not watch or follow television. |
| ☐ | 64  Does not speak unless spoken to. (e.g. Does not participate in conversations.) |
| ☐ | 65  Often cannot find the right word. |
| ☐ | 66  Trouble pronouncing words. |
| ☐ | 67  Does not understand simple commands, explanations. |
| ☐ | 68  Does not produce meaningful speech. |
| ☐ | **<  *Total Language Difficulties*** |

| | |
|---|---|
| ☐ | **Neuropsychological (NPL) Behaviours Total (1, 2, 10-12)** [2] |
| ☐ | **Neuropsychiatric (NPT) Behaviours Total (3-9)** [2] |

| | |
|---|---|
| ☐ | **Total Score (1-12)** [3] |

Name: _____   Date: _____   [Case #: _____ ]

# KSBA$_{comm}$ - BEHAVIOUR ANALYSIS   *(UPDATED)*

## SCORE ANALYSIS

**Total**

| Total Score | Cumulative Percent | Score Description |
|---|---|---|
| 68 | | VERY HIGH |
| 66 | | VERY HIGH |
| 62 | | VERY HIGH |
| 58 | | VERY HIGH |
| 54 | | VERY HIGH |
| 50 | 99 | VERY HIGH |
| 46 | 98 | VERY HIGH |
| 42 | 96 | VERY HIGH |
| 38 | 94 | VERY HIGH |
| 34 | 90 | VERY HIGH |
| 30† | 86 | VERY HIGH |
| 29 | 84 | HIGH |
| 28 | 83 | HIGH |
| 27 | 81 | HIGH |
| 26 | 80 | HIGH |
| 25 | 78 | HIGH |
| 24 | 76 | HIGH |
| 23 | 73 | HIGH |
| 22 | 71 | HIGH |
| 21 | 68 | HIGH |
| 20 | 65 | HIGH |
| 19 | 61 | HIGH |
| 18 | 57 | HIGH |
| 17 | 53 | HIGH |
| 16 | 50 | MEDIUM |
| 15 | 47 | MEDIUM |
| 14 | 43 | MEDIUM |
| 13 | 38 | MEDIUM |
| 12 | 37 | MEDIUM |
| 11 | 34 | MEDIUM |
| 10 | 31 | MEDIUM |
| 9 | 25 | MEDIUM |
| 8 | 23 | MEDIUM |
| 7 | 20 | MEDIUM |
| 6 | 18 | LOW* |
| 5 | 16 | LOW* |
| 4 | 12 | LOW* |
| 3 | 9 | LOW* |
| 2 | 5 | N |
| 1 | 1 | N |
| 0 | 0 | N |

**NPL**

| NPL Score | Cumulative Percent | Score Description |
|---|---|---|
| 39 | | VERY HIGH |
| 38 | | VERY HIGH |
| 37 | | VERY HIGH |
| 36 | | VERY HIGH |
| 35 | | VERY HIGH |
| 34 | | VERY HIGH |
| 33 | | VERY HIGH |
| 32 | | VERY HIGH |
| 31 | 99 | VERY HIGH |
| 30 | 98 | VERY HIGH |
| 29 | 97 | HIGH |
| 28 | 96 | HIGH |
| 27 | 95 | HIGH |
| 26 | 93 | HIGH |
| 25 | 91 | HIGH |
| 24 | 90 | HIGH |
| 23 | 89 | HIGH |
| 22 | 88 | HIGH |
| 21 | 86 | HIGH |
| 20 | 83 | HIGH |
| 19 | 79 | HIGH |
| 18 | 77 | HIGH |
| 17 | 75 | HIGH |
| 16 | 69 | HIGH |
| 15 | 67 | MEDIUM |
| 14 | 63 | MEDIUM |
| 13 | 58 | MEDIUM |
| 12 | 54 | MEDIUM |
| 11 | 48 | MEDIUM |
| 10 | 43 | MEDIUM |
| 9 | 38 | MEDIUM |
| 8 | 31 | MEDIUM |
| 7 | 29 | LOW* |
| 6 | 24 | LOW* |
| 5 | 19 | LOW* |
| 4 | 15 | LOW* |
| 3 | 12 | LOW* |
| 2 | 7 | N |
| 1 | 2 | N |
| 0 | | N |

**NPT**

| NPT Score | Cumulative Percent | Score Description |
|---|---|---|
| 29 | | VERY HIGH |
| 28 | | VERY HIGH |
| 27 | | VERY HIGH |
| 26 | | VERY HIGH |
| 25 | | VERY HIGH |
| 24 | | VERY HIGH |
| 23 | | VERY HIGH |
| 22 | | VERY HIGH |
| 21 | | VERY HIGH |
| 20 | | VERY HIGH |
| 19 | | HIGH |
| 18 | 99 | HIGH |
| 17 | 98 | HIGH |
| 16 | 97 | HIGH |
| 15 | | HIGH |
| 14 | 96 | HIGH |
| 13 | 95 | HIGH |
| 12 | 94 | HIGH |
| 11 | 92 | HIGH |
| 10 | 90 | HIGH |
| 9 | 87 | HIGH |
| 8 | 79 | HIGH |
| 7 | 76 | MEDIUM |
| 6 | 70 | MEDIUM |
| 5 | 62 | MEDIUM |
| 4 | 56 | MEDIUM |
| 3 | 44 | LOW* |
| 2 | 35 | LOW* |
| 1 | 28 | N |
| 0 | 17 | N |

## BEHAVIOURAL PROFILE

| Comparison Scale | 1 Daily Activities | 2 Attention/Concentration/Memory | 3 Emotional Behaviour | 4 Aggressive Behaviour | 5 Misperceptions | 6 Paranoid Behaviour | 7 Judgement/Insight | 8 Perseveration | 9 Motor Restlessness | 10 Sleep/Activity/Sundowning | 11 Motor/Spatial Problems | 12 Language Difficulties |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 17 | 5 | 4 | 3 | 4 | 5 | 7 | 3 | 3 | 4 | 5 | 8 |
| 9.5 | 16 | | | | | | | | | | | |
| 9 | 15 | | | | | | | | | | | |
| 8.5 | 14 | | | | | | 6 | | | | | 7 |
| 8 | 13 | 4 | | | | 4 | | | | | 4 | |
| 7.5 | 12 | | 3 | | 3 | | 5 | | | 3 | | 6 |
| 7 | 11 | | | 2 | | | | 2 | 2 | | | |
| 6.5 | 10 | | | | | | | | | | | 5 |
| 6 | 9 | 3 | | | | 3 | 4 | | | | 3 | |
| 5.5 | | | | | | | | | | | | |
| 5 | 8 | | 2 | | 2 | | | | | 2 | | 4 |
| 4.5 | 7 | | | | | | 3 | | | | | |
| 4 | 6 | 2 | | | | 2 | | | | | 2 | 3 |
| 3.5 | | | | 1 | | | | 1 | 1 | | | |
| 3 | 5 | | | | | | 2 | | | | | |
| 2.5 | 4 | | 1 | | 1 | | | | | 1 | | 2 |
| 2 | 3 | 1 | | | | 1 | | | | | 1 | |
| 1.5 | 2 | | | | | | 1 | | | | | 1 |
| 1 | 1 | | | | | | | | | | | |
| 0.5 | | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

For an **analysis** of the **Total, NPL & NPT** scores, and/or to produce a **Behaviour Profile**, see next page (page 4).

**N** (Normal) - Scores in this range may be seen in persons without a diagnosis

**\* LOW** in this case not necessarily mean unimportant

† Anecdotally, lay caregivers report difficulties caring for their relative in the community with scores nearing/exceeding 30.

# KSBAcomm - Behavioural Analysis Procedures Guide

## TOTAL SCORE ANALYSIS | BEHAVIOURAL PROFILE

**STEP 1 (Scores)** → FOR A **TOTAL** SCORE ANALYSIS, CIRCLE THE SUM OF ITEMS SCORED FOR THE TOTAL SCORE PLUS **NPL** & **NPT** TOTALS (from Page 2) IN THE 3 NUMERIC COLUMNS ON LEFT ("TOTAL SCORE ANALYSIS").

**STEP 2 (Cumulative Percent)** → PERCENTAGE OF SCORES AT OR BELOW THAT SCORE.

**STEP 3 (Descriptions)** → READ THE SCORE DESCRIPTIONS FOR THE **TOTAL, NPL & NPT** SCORES IN THE 3 COLUMNS TO THE RIGHT OF THE CUMULATIVE PERCENT COLUMNS.

**STEP 4 (Profile)** → TO CREATE A **BEHAVIOURAL PROFILE** CIRCLE THE SUM OF THE ITEMS SCORED FOR EACH BEHAVIOURAL GROUP (DOMAINS) IN THE "BEHAVIOUR PROFILE" COLUMNS (RIGHT SIDE OF PAGE 3) CONNECT THE

### Total Score Analysis

| Total Score | Cumulative Percent | Score Description |
|---|---|---|
| 68 | | VERY HIGH |
| 66 | | |
| 62 | | |
| 58 | | |
| 54 | | |
| 50 | 99 | |
| 46 | 98 | |
| 42 | 96 | |
| 38 | 94 | |
| 34 | 90 | |
| 30 | 86 | |
| 29 | 84 | HIGH |
| 28 | 83 | |
| (27) | 81 | |
| 26 | 80 | |
| 25 | 78 | |
| 24 | 76 | |
| 23 | 73 | |
| 22 | 71 | |
| 20 | 65 | |
| 19 | 61 | MEDIUM |
| 18 | 57 | |
| 17 | 53 | |
| 16 | 50 | |
| (15) | 47 | |
| 14 | 44 | |
| 13 | | |
| 12 | | |
| 11 | 34 | |
| 10 | 31 | |
| 9 | 25 | LOW* |
| 8 | 23 | |
| 7 | 20 | |
| 6 | 18 | |
| 5 | 16 | |
| 4 | 12 | |
| 3 | 9 | N |
| 2 | 5 | |
| 1 | 1 | |
| 0 | 0 | |

### NPL

| NPL Score | Cumulative Percent | Score Description |
|---|---|---|
| 38 | | VERY HIGH |
| 37 | | |
| 36 | | |
| 35 | | |
| 34 | | |
| 33 | | |
| 32 | | |
| 31 | 99 | |
| 30 | 98 | |
| 29 | 97 | |
| 27 | 95 | |
| 26 | 93 | |
| 25 | 91 | |
| 24 | 90 | |
| 23 | 89 | HIGH |
| 22 | 88 | |
| 21 | 86 | |
| 20 | 83 | |
| 19 | 79 | |
| 18 | 77 | |
| 16 | 69 | |
| (15) | 67 | MEDIUM |
| 14 | 6_ | |
| 13 | 5_ | |
| 12 | 54 | |
| 11 | 48 | |
| 9 | 38 | |
| 8 | 31 | LOW* |
| 7 | 29 | |
| 6 | 24 | |
| 5 | 19 | |
| 4 | 15 | |
| 3 | 12 | N |
| 2 | 7 | |
| 1 | 2 | |
| 0 | 0 | |

### NPT

| NPT Score | Cumulative Percent | Score Description |
|---|---|---|
| 29 | | VERY HIGH |
| 28 | | |
| 27 | | |
| 26 | | |
| 25 | | |
| 24 | | |
| 23 | | |
| 22 | | |
| 21 | | |
| 20 | | |
| 19 | 99 | |
| 18 | 99 | |
| 17 | 98 | |
| 16 | 97 | |
| 15 | | HIGH |
| 14 | 95 | |
| 13 | | |
| (12) | 94 | |
| 11 | | |
| 10 | 90 | |
| 9 | 87 | |
| 8 | 79 | |
| 7 | 76 | |
| 6 | 70 | MEDIUM |
| 5 | 62 | |
| 4 | 56 | |
| 3 | 44 | LOW* |
| 2 | 35 | |
| 1 | 28 | N |
| 0 | 17 | |

### Comparison Scale & Behavioural Profile

Columns: 1 Daily Activities, 2 Attention/Concentration/Memory, 3 Emotional Behaviour, 4 Aggressive Behaviour, 5 Misperceptions, 6 Paranoid Behaviour, 7 Judgement/Insight, 8 Perseveration, 9 Motor Restlessness, 10 Sleep/Activity/Sundowning, 11 Motor/Spatial Problems, 12 Language Difficulties. Circled values shown in parentheses.

| Comparison Scale | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 17 | 5 | 4 | (3) | 4 | 5 | 7 | 3 | 3 | 4 | 5 | 8 |
| 9.5 | 16 | | | | | | | | | | | |
| 9 | 15 | | | | | | | | | | | |
| 8.5 | | | | | | | 6 | | | | | 7 |
| 8 | 14 | 4 | | | 4 | | | | | | 4 | |
| 7.5 | 13 | | 3 | | 3 | 3 | 5 | | | 3 | | 6 |
| 7 | 12 | | | | | | | | | | | |
| 6.5 | 11 | | 2 | | | | | 2 | 2 | (2) | | 5 |
| 6 | 10 | (3) | | | | 3 | 4 | | | | 3 | |
| 5.5 | 8 | | | | | | | | | | | |
| 5 | 6 | (2) | (2) | | (2) | | | | | (2) | | 4 |
| 4.5 | (7) | | | | | | 3 | | | | | |
| 4 | 6 | 2 | | | | 2 | | | | | 2 | |
| 3.5 | | | 1 | 1 | | | | | 1 | 1 | | |
| 3 | 5 | | | | | 2 | (2) | | | | | 3 |
| 2.5 | 4 | | 1 | | 1 | | | | | | 1 | (2) |
| 2 | 3 | 1 | | | | (1) | | | | | (1) | |
| 1.5 | 2 | | | | | | 1 | | | | | |
| 1 | | | | | | | | | | | | 1 |
| 0.5 | 1 | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (0) | 0 | 0 | 0 | 0 |

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1 - **For long term care residents, use the *UPDATED* Long Term Care Form [KSBALTC].**

2 - For further explanations and samples as to how to use this form see the **KSBA Administration and Interpretation Manual**, which can be downloaded free of charge from **www.kingstonscales.org** or email: **kscales@queensu.ca**

3 - For repeated administrations consult the **KSBAcomm Quick Reference Guide**, which can be downloaded free of charge from **www.kingstonscales.org**