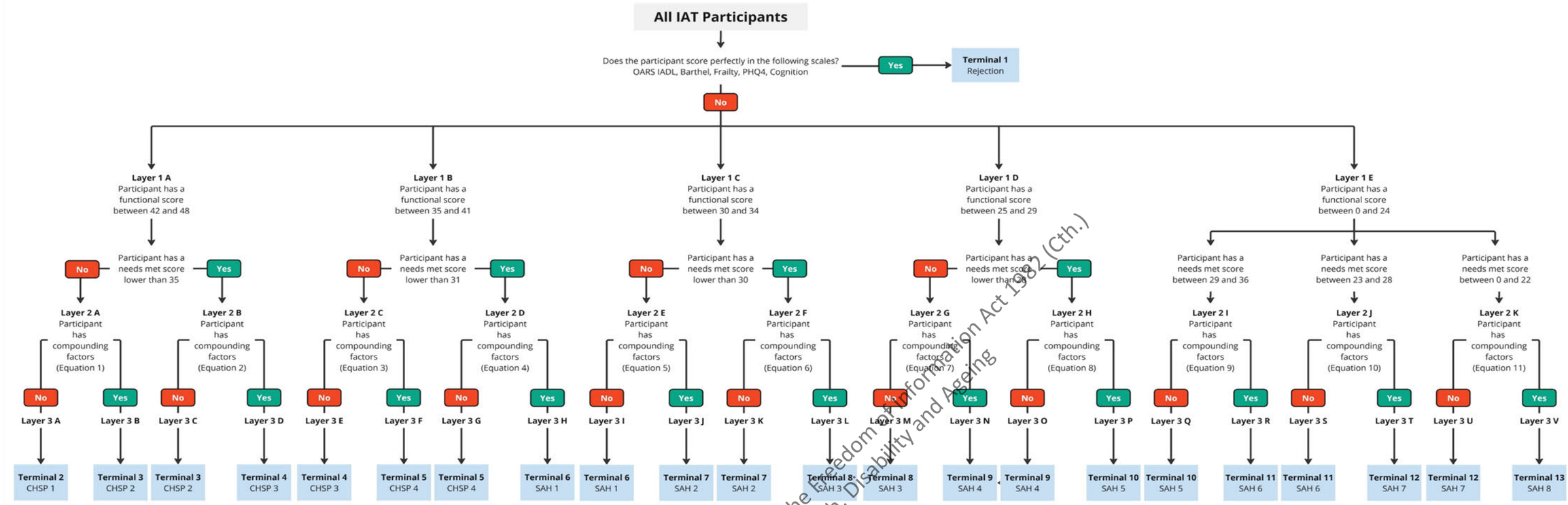
# Contents


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| Classification Tree | Dendrogram of SaH classification rules |
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## Conditions

If **at least one** of the following cases are **true, recommend the class noted in column C (Class)**

*Note 1: Please refer to the sheet "Complexity Equations" for the specific variables and coefficients of each Complexity Equation. Note: Complexity equation refers to the term compounding factor used in the Classification Tree Diagram*

*Note 2: Where a score range has been provided (e.g. 44 - 48) this is inclusive of the upper and lower bounds. Namely, it will include 44 and 48.*

*Note 3: All the conditions under a case follow an AND combination i.e. they should all hold true for the case to be true.*

| Class | Case | | Condition |
|---|---|---|---|
| Rejection | 1 | a) | No cognitive issues (cognitive indication = 0) |
| | | b) | OARS IADL Score = 14 |
| | | c) | Barthel Score = 20 |
| | | d) | frail.score = 0 |
| | | e) | PHQ4_score = 0 |
| CHSP 1 | 1 | a) | Functional sum of 42 - 48 |
| | | b) | Needs Met score of 35 - 36 |
| | | c) | Does not have compounding factors using Complexity Equation 1 |
| CHSP 2 | 1 | a) | Functional sum of 42 - 48 |
| | | b) | Needs Met score of 35 - 36 |
| | | c) | Have compounding factors using Complexity Equation 1 |
| | 2 | a) | Functional sum of 42 - 48 |
| | | b) | Needs Met score of 0 - 34 |
| | | c) | Does not have compounding factors using Complexity Equation 2 |
| CHSP 3 | 1 | a) | Functional sum of 42 - 48 |
| | | b) | Needs Met score of 0 - 34 |
| | | c) | Have compounding factors using Complexity Equation 2 |
| | 2 | a) | Functional sum of 35 - 41 |
| | | b) | Needs Met score of 31 - 36 |
| | | c) | Does not have compounding factors using Complexity Equation 3 |
| CHSP 4 | 1 | a) | Functional sum of 35 - 41 |
| | | b) | Needs Met score of 31 - 36 |
| | | c) | Have compounding factors using Complexity Equation 3 |
| | 2 | a) | Functional sum of 35 - 41 |
| | | b) | Needs Met score of 0 - 30 |
| | | c) | Does not have compounding factors using Complexity Equation 4 |
| SAH 1 | 1 | a) | Functional sum of 35 - 41 |
| | | b) | Needs Met score of 0 - 30 |
| | | c) | Have compounding factors using Complexity Equation 4 |
| | 2 | a) | Functional sum of 30 - 34 |
| | | b) | Needs Met score of 30 -36 |
| | | c) | Does not have compounding factors using Complexity Equation 5 |
| SAH 2 | 1 | a) | Functional sum of 30 - 34 |
| | | b) | Needs Met score of 30 -36 |
| | | c) | Have compounding factors using Complexity Equation 5 |
| | 2 | a) | Functional sum of 30 - 34 |
| | | b) | Needs Met score of 0 - 29 |
| | | c) | Does not have compounding factors using Complexity Equation 6 |
| SAH 3 | 1 | a) | Functional sum of 30 - 34 |
| | | b) | Needs Met score of 0 - 29 |
| | | c) | Have compounding factors using Complexity Equation 6 |
| | 2 | a) | Functional sum of 25 - 29 |
| | | b) | Needs Met score of 28 - 36 |
| | | c) | Does not have compounding factors using Complexity Equation 7 |
| SAH 4 | 1 | a) | Functional sum of 25 - 29 |
| | | b) | Needs Met score of 28 - 36 |
| | | c) | Have compounding factors using Complexity Equation 7 |
| | 2 | a) | Functional sum of 25 - 29 |
| | | b) | Needs Met score of 0 - 27 |
| | | c) | Does not have compounding factors using Complexity Equation 8 |
| SAH 5 | 1 | a) | Functional sum of 25 - 29 |
| | | b) | Needs Met score of 0 - 27 |
| | | c) | Have compounding factors using Complexity Equation 8 |
| | 2 | a) | Functional sum of 0 - 24 |
| | | b) | Needs Met score of 29 - 36 |
| | | c) | Does not have compounding factors using Complexity Equation 9 |
| SAH 6 | 1 | a) | Functional sum of 0 - 24 |
| | | b) | Needs Met score of 29 - 36 |
| | | c) | Have compounding factors using Complexity Equation 9 |
| | 2 | a) | Functional sum of 0 - 24 |
| | | b) | Needs Met score of 23 - 28 |
| | | c) | Does not have compounding factors using Complexity Equation 10 |
| SAH 7 | 1 | a) | Functional sum of 0 - 24 |
| | | b) | Needs Met score of 23 - 28 |
| | | c) | Have compounding factors using Complexity Equation 10 |
| | 2 | a) | Functional sum of 0 - 24 |
| | | b) | Needs Met score of 0 - 22 |
| | | c) | Does not have compounding factors using Complexity Equation 11 |
| SAH 8 | 1 | a) | Functional sum of 0 - 24 |
| | | b) | Needs Met score of 0 - 22 |
| | | c) | Have compounding factors using Complexity Equation 11 |

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## Conditions

*A clients has compoudning factors when their fitted value is greater than 0.*

| Case | Condition | Outcome | Description |
|---|---|---|---|
| 1 | x > 0 | 1 | Have compounding factors |
| 2 | x <= 0 | 0 | Does not have compounding factors |

## Individual Complexity Rules

To calculate the predicted condition, first multiply each variable by the respective coefficient, sum them and then add the intercept.

s47E(d)

s47E(d)

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s47E(d)



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## Class Correspondence to CHSP and SaH

The following table provides a mapping of Classes to CHSP or the SaH program commencing 2025

| Class | Service Group | Class Type | Class Label |
|---|---|---|---|
| Rejection | - | - | Not Eligible for ongoing SaH and/or CHSP |
| Class 2 | Home Support | Ongoing | CHSP |
| Class 4 | Home Support | Ongoing | CHSP |
| Class 5 | Home Support | Ongoing | CHSP |
| Class 6 | Home Support | Ongoing | CHSP |
| Class 7 | Home Support | Ongoing | SaH Classification 1 |
| Class 8 | Home Support | Ongoing | SaH Classification 2 |
| Class 9 | Home Support | Ongoing | SaH Classification 3 |
| Class 10 | Home Support | Ongoing | SaH Classification 4 |
| Class 11 | Home Support | Ongoing | SaH Classification 5 |
| Class 12 | Home Support | Ongoing | SaH Classification 6 |
| Class 13 | Home Support | Ongoing | SaH Classification 7 |
| Class 14 | Home Support | Ongoing | SaH Classification 8 |

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Questions used

*A list of questions used from the IAT in the classification algorithm/ decision tree*

| Variable Name | Code | Question | Notes |
|---|---|---|---|

s47E(d)

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# Constructed Variables

*List of constructed variables for the IAT classification algorithm*

## Functional Sum

***maximum score of 48*** *which is calculated by summing encoded values*

| Question Set | Question | Response | Encoding |
|---|---|---|---|
| 1 | s47E(d) | Completely unable | s47E(d) |
| | | With some help | |
| | | Without help | |
| 2 | | Completely unable | |
| | | Major help | |
| | | Minor help | |
| | | Without help | |
| 3 | | Completely unable | |
| | | Major help | |
| | | Minor help | |
| | | Without help | |
| 4 | | Incontinent | |
| | | Occasional accident | |
| | | Continent | |
| 5 | | Completely unable | |
| | | Some difficulty | |
| | | No difficulty | |
| 6 | | Completely unable | |
| | | Wheelchair independent | |
| | | With some help | |
| | | Without help | |
| 7 | | Completely unable | |
| | | With some help | |
| | | Without help | |
| | | NA | |
| 8 | | No | |
| | | Yes | |
| 9 | | Yes | |
| | | No | |

## Needs Met Score

***maximum score of 36*** *which is calculated by summing encoded values*

Note, for each question, if the individual answered "Without Help" for the activity, assign them the maximum score s47E(d) r that activity.
For *"Question Set 2",* use the Wheelchair - Need Met if the individual responded "Wheelchair independent" in the Walk question. Use Walk - Need Met for all other cases.

| Question Set | Question | Response | Encoding |
|---|---|---|---|
| 1 | s47E(d) | Client does not require assistance | s47E(d) |
| | | Completely met | |
| | | Partially met | |
| 2 | | Client does not require assistance | |
| | | Completely met | |
| | | Partially met | |
| | | Completely unmet | |

## continence_score

***maximum score of 4*** *which is calculated by summing encoded values*

| Question Set | Question | Response | Encoding |
|---|---|---|---|
| 1 | s47E(d) | Incontinent, or catheterised and unable to manage | s47E(d) |
| | | Occasional accident (max. once per 24 hours) | |
| | | Continent (for over 7 days) | |
| 2 | | Incontinent (or needs to given enemata) | |
| | | Occasional accident (once/week) | |

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| | | | |
|---|---|---|---|
| | | Continent | 2 |

## FeelsLonelyDownOrSociallyIsolated__4.1

*Indicator variable which is calculated using the following question*

| Question Set | Question | Response | Encoding |
|---|---|---|---|
| 1 | s47E(d) | Not sure | s47E(d) |
| | | No, not at all | |
| | | Occasionally | |
| | | Sometimes | |
| | | Most of the time | |

## carer_var

Indicator variable which is calculated using the following question. A client may have multiple responses to this question if they have many carers. Assi s47E(d) at leas s47E(d) the carers answered 'Yes', else s47E(d)

| Question Set | Question | Response | Encoding |
|---|---|---|---|
| 1 | s47E(d) | Yes | [redacted] |
| | | No | |

## frail.score

| Question Set | Question | Response | Encoding |
|---|---|---|---|
| 1 | s47E(d) | No weight loss | s47E(d) |
| | | 1-5 kgs or less than 5% of body weight | |
| | | More than 5 kg or more than 5% of body weight | |
| 2 | | Some, a little or none of the time | |
| | | All of the time | |
| 3 | | No | |
| | | Yes | |
| 4 | | No | |
| | | Yes | |
| 5 | | Number of illnesses is 4 or less. | |
| | | Number of illnesses is greater than 4. | |

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## PHQ4_score

*maximum score o[redacted] which is calculated by summing encoded values*

| Question Set | Question | Response | Encoding |
|---|---|---|---|
| 1 | s47E(d) | No, not at all | s47E(d) |
| | | Several days | |
| | | More than half of the days | |
| | | Nearly every day | |

## GP Cog - Step 1

*maximum score o s47E(d) hich is calculated by summing encoded values*

| Question Set | Question | Response | Encoding |
|---|---|---|---|
| 1 | s47E(d) | Incorrect | s47E(d) |
| | | Correct | |
| 2 | | Incorrect | |
| | | Correct | |
| 3 | | Incorrect | |
| | | Correct | |
| 4 | | Incorrect | |
| | | Correct | |
| 5 | | Incorrect | |
| | | Correct | |
| 6 | | Incorrect | |
| | | Correct | |
| 7 | | Incorrect | |
| | | Correct | |
| 8 | | Incorrect | |
| | | Correct | |
| 9 | | Incorrect | |
| | | Correct | |

## GP Cog - Ste_2 (Informant)

*maximum score o s47E(d) hich is calculated by summing encoded values*

| Question Set | Question | Response | Encoding |
|---|---|---|---|
| 1 | s47E(d) | Yes | 0 |
| | | Don't know | 1 |
| | | Not applicable | 1 |

| | | | |
|---|---|---|---|
| | s47E(d) | No | s47E(d) |
| 2 | | Yes<br>Don't know<br>Not applicable<br>No | |
| 3 | | Yes<br>Don't know<br>Not applicable<br>No | |
| 4 | | Yes<br>Don't know<br>Not applicable<br>No | |
| 5 | | Yes<br>Don't know<br>Not applicable<br>No | |
| 6 | | Yes<br>Don't know<br>Not applicable<br>No | |

## KICA-COG

***maximum score o*** s47E (d) *hich is calculated by summing encoded values*

| Question Set | Question | Response | Encoding |
|---|---|---|---|
| 1 | s47E(d) | Incorrect<br>Correct | s47E(d) |
| 2 | | Incorrect<br>Correct | |
| 3 | | Incorrect<br>Correct | |
| 4 | | Incorrect<br>Correct | |
| 5 | | Incorrect<br>Correct | |
| 6 | | Incorrect<br>Correct | |
| 7 | | Incorrect<br>Correct | |
| 8 | | Incorrect<br>Correct | |
| 9 | | Incorrect<br>Correct | |
| 10 | | None correct<br>1 correct<br>2 correct<br>3 correct | |
| 11 | | Not completed<br>Completed | |
| 12 | | Not able<br>Pointed to the sky only<br>Pointed to the sky and ground | |
| 13 | | 0 animal<br>1-4 animals<br>5-8 animals<br>9 animals | |
| 14 | | None correct<br>1 correct<br>2 correct<br>3 correct (all correct) | |
| 15 | | No correct<br>1 correct<br>2 correct<br>3 correct<br>4 correct<br>5 correct (all correct) | |
| 14 | | Not able to copy<br>Able to copy | |
| 15 | | No correct<br>1 correct<br>2 correct<br>3 correct<br>4 correct<br>5 correct (all correct) | |
| 16 | | No correct<br>1 correct<br>2 correct<br>3 correct<br>4 correct<br>5 correct (all correct) | |
| 17 | | Not able<br>Able | |
| 18 | | Not able<br>Able | |

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## KICA-COG Regional Urban (RU)

***maximum score o*** s47E(d) *hich is calculated by summing encoded values*

| Question Set | Question | Response | Encoding |
|---|---|---|---|
| 1 | s47E(d) | Incorrect<br>Correct | s47E(d) |
| 2 | | Incorrect<br>Correct | |
| 3 | | Incorrect<br>Correct | |
| 4 | | Incorrect | |

| | s47E(d) | | s47E(d) |
|---|---|---|---|
| 4 | | Correct | |
| 5 | | Incorrect<br>Correct | |
| 6 | | Incorrect<br>Correct | |
| 7 | | Incorrect<br>Correct | |
| 8 | | Incorrect<br>Correct | |
| 9 | | Incorrect<br>Correct | |
| 10 | | None correct<br>1 correct<br>2 correct<br>3 correct | |
| 11 | | Not completed<br>Completed | |
| 12 | | Not able<br>Pointed to the sky only<br>Pointed to the sky and ground | |
| 13 | | 0 animal<br>1-4 animals<br>5-8 animals<br>9 animals | |
| 14 | | None correct<br>1 correct<br>2 correct<br>3 correct (all correct) | |
| 15 | | No correct<br>1 correct<br>2 correct<br>3 correct<br>4 correct<br>5 correct (all correct) | |
| 14 | | Not able to copy<br>Able to copy | |
| 15 | | No correct<br>1 correct<br>2 correct<br>3 correct<br>4 correct<br>5 correct (all correct) | |
| 16 | | No correct<br>1 correct<br>2 correct<br>3 correct<br>4 correct<br>5 correct (all correct) | |
| 17 | | Not able<br>Able | |
| 18 | | Not able<br>Able | |

## KICA Carer

***maximum score o*** s47 E(d) *hich is calculated by summing encoded values*

| Question Set | Question | Response | Encoding |
|---|---|---|---|
| 1 | s47E(d) | No<br>Sometimes<br>All the time | s47E(d) |
| 2 | | No<br>Sometimes<br>All the time | |
| 3 | | No<br>Sometimes<br>All the time | |
| 4 | | No<br>Sometimes<br>All the time | |
| 5 | | No<br>Sometimes<br>All the time | |
| 6 | | No<br>Sometimes<br>All the time | |
| 7 | | No<br>Sometimes<br>All the time | |
| 8 | | No<br>Sometimes<br>All the time | |

## cog_indication

***Indicator variable*** *which flag* s47 E(d) *s long as any of the following conditions are met*

| Question Set | Question | Response | Encoding |
|---|---|---|---|
| 1 | s47E(d) | No<br>Yes<br>Does not have any of the conditions listed. | s47E(d) |

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| | | | |
|---|---|---|---|
| 2 | s47E(d) | At least one of the conditions | s47E(d) |
| 3 | | GP Cog Step 1 >= 5<br>GP Cog Step 1 < 5 | |
| 4 | | GP Cog Step 2 >= 4<br>GP Cog Step 2 < 4 | |
| 5 | | KICA-COG Total Score >= 34<br>KICA-COG Total Score < 34 | |
| 6 | | KICA-Cog RU Total Score > 35<br>KICA-Cog RU Total Score <= 35 | |
| 7 | | KICA Carer >= 3<br>KICA Carer < 3 | |

## Barthel Sum

***maximum score o*** s47E(d) ***hich is calculated by summing encoded values***

| Question Set | Question | Response | Encoding |
|---|---|---|---|
| 1 | s47E(d) | Completely unable<br>With some help<br>Without help | s47E(d) |
| 2 | | Completely unable / with some help<br>Without help | |
| 3 | | Completely unable / with some help<br>Without help | |
| 4 | | Completely unable<br>Major help<br>Minor help<br>Without help | |
| 5 | | Completely unable<br>Major help / Minor help<br>Without help | |
| 6 | | Incontinent<br>Occasional accident<br>Continent | |
| 7 | | Completely unable<br>Wheelchair independent<br>With some help<br>Without help | |

## OARS IADL Score

***maximum score o*** s47E(d) ***hich is calculated by summing encoded values***

| Question Set | Question | Response | Encoding |
|---|---|---|---|
| 1 | s47E(d) | Completely unable<br>With some help<br>Without help | s47E(d) |

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