# Practice Leadership Workshops for Behaviour Support Practitioners

## Collecting Meaningful Data and Measuring Outcomes

Facilitator: David Wragg



## Acknowledgement

We acknowledge the traditional people of Australia and pay respect to elders past, present, and emerging.



## Housekeeping and Disclaimers

- Please step out and attempt to minimise disruption if you need to take a call.
- Feel free to join in and discuss topics, but please depersonalise any information you use.
- The usual conduct around confidentiality of individuals' personal information applies.
- The content of this workshop is designed to be applicable to a wide range of PBS practitioners and professionals.
- This workshop is intended to give participants direction for their own practice, but nobody will be an expert in data collection at the end of the day.



## Workshop series

Practice Leadership Workshops for Behaviour Support Practitioners

- 1) Implementing positive behaviour support
- 2) Reflective Practice
- 3) Collecting meaningful data and measuring outcomes
- 4) Supporting the person (and their support network) to be involved in the development of their own plan.



### **About us**

#### Guidestar provides services in

- Positive behaviour support and training for professionals
- Support coordination
- Psychology services
- Organisational and professional support





### Outcomes of today's discussions

- Improve our understanding of data as it relates to the capability framework.
- Gather new ideas on how to use data to inform services and report outcomes.
- Discuss quality of life improvements as a performance metric.
- Share successes and barriers regarding data collection



### COVID-19

The content of this program was developed to be an in-person workshop prior to the COVID-19 outbreak.

Given the change of circumstances, it is anticipated that the conversation may include practitioner challenges and ideas to address the current situation.

While no slides have been prepared for COVID-19, please feel free to discuss the topic in the context of current events.



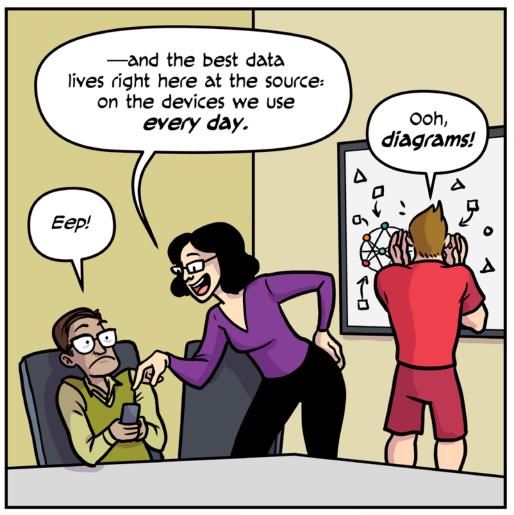
## Positive Behaviour Support

An applied science that uses educational methods to expand an individual's behaviour repertoire and systems change methods to redesign an individual's living environment to first enhance the individual's quality of life and, second, to minimise his or her problem behaviour.

(Carr et al. 2002, p. 4)



## Why do we collect data?





## Why do we collect data?

- Understand or describe a situation
- Find correlations between variables
- Test hypotheses
- Measure changes in behaviour and quality of life
- To meet capability framework criteria



## **Capability Framework and Data**

#### Interim Response

- Evaluate the risk posed by the behaviour to the person (i.e. How frequent or intense is the behaviour? How long does it last?)
- Record and report accurately

Begin by establishing a baseline for the behaviour





## Establishing a baseline

#### Start with an operational definition:

"In an operational definition, a behavior is explicitly or clearly defined such that it is measurable, can be identified by two or more observers, and can be identified across time and in different settings or contexts." (Bicard & Bicard, 2012, p.12)

We can't begin to measure a behaviour accurately across settings unless we can agree on what is being measured, these concepts are known as *validity* and *reliability*.



### Establishing a baseline

By having a clear idea of what we are recording, we can then take data on the:

- Frequency Counting how often something occurs
- Intensity Often measured using a Likert scale
- Duration How long a behaviour occurs

#### For example:

Self-injury presents approximately 4 times per week with an average duration of 12 minutes with a range of 2 minutes to 33 minutes. The impact of this behaviour ranges from red marks on the arm to injuries requiring attention from paramedics. On average paramedics are called every 9 months to attend to injuries resulting from self-injury.



## Likert scales as intensity measurements

- A Likert Scale can be used to rank behaviour and provide an intensity scale.
- Data collectors may rate a behaviour differently if no guidelines are given.
- Creating a rubric can be useful to increase reliability.

#### Example:

#### Self Injury Rubric

- 1) Red marks on the skin.
- 2) Results in minor abrasion/laceration/bruising
- 3) Results in abrasion/laceration that requires application of a plaster or bandage
- 4) Results in significant bleeding
- 5) Presence of emergency services or professional medical attention



### **Interim Response & Data**

Establishing a baseline not only helps as a basis of comparison.

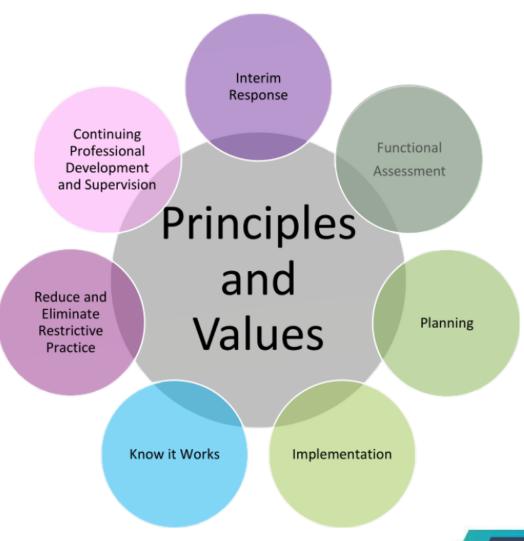
The process can help to assess risk, prioritise goals, and understand how the behaviours of concern are impacting on quality of life.



## **Capability Framework and Data**

#### **Functional Assessment**

- Understand the importance of obtaining baseline measures of behaviours of concern, quality of life, and use of restrictive practices
- Understand the importance of data-driven decision making
- Systems to collect data from a variety of sources
- Identify antecedents and maintaining consequences





## Using data to conduct a functional assessment

- What data or tools can we use to assist in conducting a functional assessment?
- Having detailed and frequent data can help to establish a function.



## Using data to conduct a functional assessment

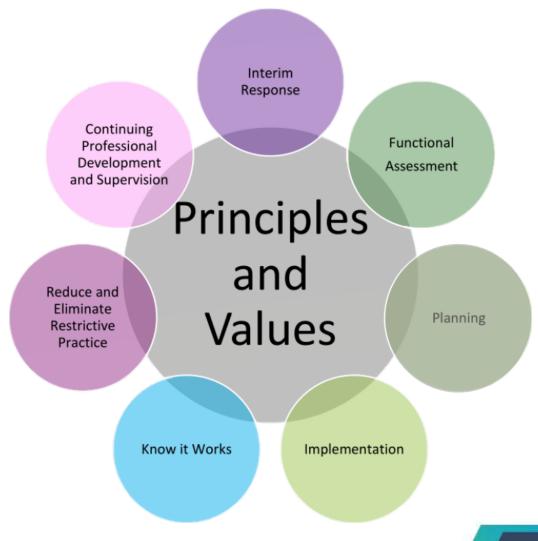
- What happens if we don't have data? What can we do?
  - Discuss or conduct observations with stakeholders
  - Conduct a file review of session notes/IRs/health notes/etc.
  - Use assessment tools such as the Questions about behavioural function, Behaviour Problem Inventory, Functional Assessment Interview, etc.
  - NDIS Compendium of Resources can be found at: <a href="https://www.ndiscommission.gov.au/document/1456">https://www.ndiscommission.gov.au/document/1456</a>



## **Capability Framework and Data**

#### Planning:

- Use data to inform a theoretical and ethically sound behaviour support plan
- Develop strategies to improve a person's quality of life.
- Develop strategies to increase the person's skills and communication
- Develop data collection systems that are objective, understandable, and useable by the key people.
- Develop a behaviour support plan that is supported by data that measures how accurately it is implemented.





#### **Person-Centred Planning**

"Person-centred planning begins when people decide to listen carefully, and in ways that can strengthen the voice of people who have been, or are at risk, of being silenced" (O'Brien, as cited in Sanderson, p. 304)

Key features of a person-centred plan:

- The **person is at the centre**, with the plan emphasising their voice.
- Families and friends are partners in planning.
- Reflects a person's wishes, aspirations and capacities, rather than needs and deficits.
- Includes life goals, not goals centred around services. These should reflect what's possible, not just be limited to what's available or what services can manage to achieve.
- Includes a shared commitment to action and involves ongoing listening and further actions to help a person achieve what they want for their life.



Often NDIS goals are person centred, achievable, relevant, but vague.

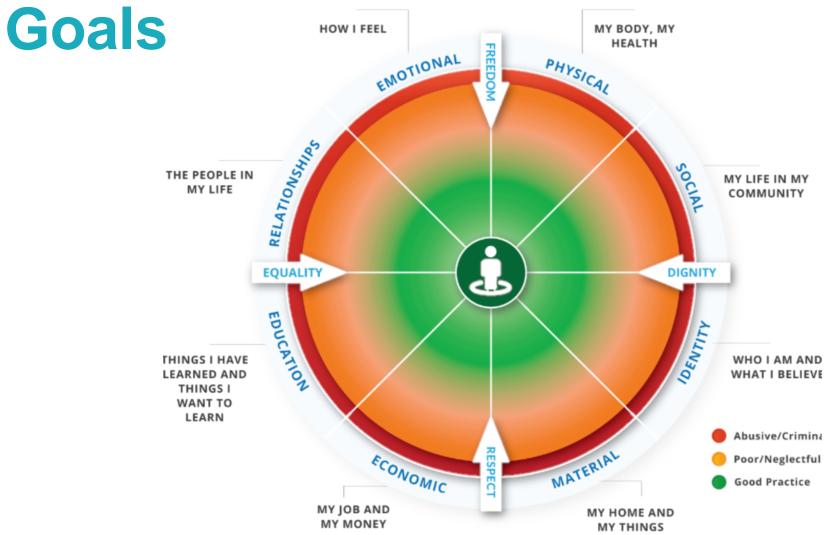
"Mark wants support to access the community, learn new skills, and learn to better manage his emotions".



"Mark wants support to access the community, learn new skills, and learn to better manage his emotions"

- "Mark went out every week" vs. "In February Mark accessed the community 14 times, 7 of these visits were to the Boar's Head Hotel for Morning Melodies. The average duration of community access shifts was 175 minutes".
- What other things could we record?
- What questions can we ask about the accuracy of the measurement?







- Mood and wellbeing scales (QOLI, Depression inventories, etc.)
- Health outcomes (Physical stats, number of days in hospital, length of hospital stays)
- Community life (Number of friends, days in the community, membership in community groups)
- Identity (Attendance at religious/cultural events, time spent with people of the same background, number of friends who speak the same LOTE, etc.)
- Material (Adequate accom, equipment in good repair, have items of importance to them)
- Economic (Person is working as much as they'd like, enough money to meet needs/achieve goals, accounts not in arrears)
- Education (Attendance/Completion of courses, marks in classes, hours for L's/P's)
- Relationships (Friendships, Romance, Social skills education)



In data analysis and behaviour support there is a tendency to focus on behaviours of concern.

This can mean a practitioner's success, or plan's efficacy, may only be measured by a reduction in the frequency, duration, and/or intensity of behaviours of concern.

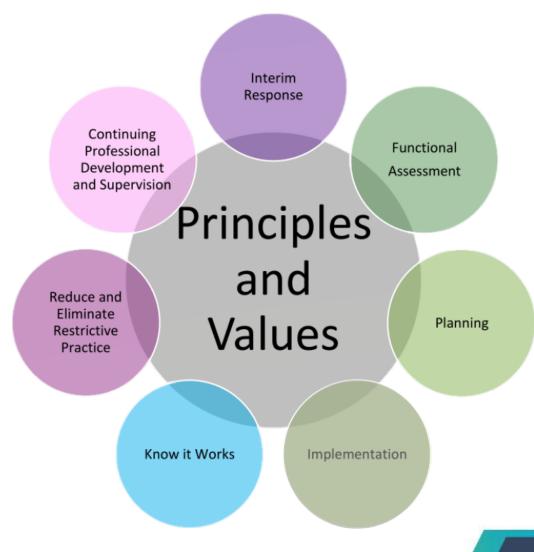
This can lead to someone who is "easy" or docile being one of the 'success stories'.



## **Capability Framework and Data**

#### **Implementation**

- Identify appropriate methods of feedback for those implementing a behaviour support plan
- Support those implementing a behaviour support plan to use the recommended data collection systems
- Support implementation across different environments and contexts





### **Implementation**

Individuals often have different providers which can make it hard to make an apples-to-apples comparison.

Having inconsistent data collection can also introduce a bias.

"Carrie attends Elder Anne day program who requested behaviour support due to the fact that they are submitting upwards of 6 incident reports per day. While conducting initial discussions with the house supervisor at 4 Yavin Road (her accom provider), their data recordings indicate behaviour presents at a rate of roughly 1.5 times per day but no incident reports have been submitted in 6 months"



## Reliability and Validity

 Reliability: "Reliability in functional assessment refers to agreement among observers viewing the same behavior at the same time regarding its occurrence or non-occurrence." (Gresham, Watson & Skinner, 2001, p.169)

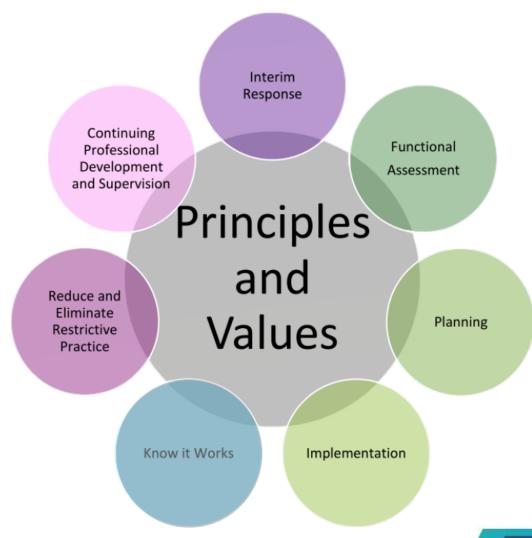
 Validity: The extent to which a measure relates to the information being sought. (Price, Jhangiani R., & Chiang, 2015)



## **Capability Framework and Data**

#### Know it works

- Use data to monitor implementation of behaviour support plans in a whole-of-life context
- Track progress of a behaviour support plan using indicators of effectiveness
- Understand systematic monitoring and evaluation
- Have robust and effective ways to measure and evaluate outcomes
- Use data to explain the reason(s) behind a behaviour support plan's effectiveness
- Apply and interpret measures that capture an increase in behaviours or use of RPs, or decrease in QoL





## Are we achieving the goals we have set?

To determine this, it helps to take data continuously; this allows us to determine if there has been a reduction in behaviour or if reductions have been maintained.

Often, we're not recording the data we want- times when no behaviour is occurring!



## Are we achieving the goals we have set?

What sort of data can we collect to see to assess the effectiveness in interventions?

- Frequency of behaviour
- Intensity of behaviour
- Duration of behaviour (where applicable)
- How often is someone using replacement behaviour (opportunity data)
- Quality of life measures (e.g. Quality of life inventory, pleasant events
   Schedule, Health of the nation outcomes survey, frequency of quality of life
   increasing events, duration of quality of life increasing events, health
   indicators, etc.)
- Evidence of increased skill (Task analyses are particularly useful here)



## **Capability Framework and Data**

## Reduce and Eliminate restrictive practices

- Understand that restrictive practices must be justified and are an option of last resort
- Restrictive practices can only occur when a behaviour support plan is in place
- Ensure behaviour support plan is outcomes-focussed, person-centred, and strategies proactively address a person's needs.





## Data collection practices and restrictive practices

 What sort of information might a medical practitioner need to reduce Restrictive Practices?

 How can we use data to plan out and reduce restrictive practices?

 What sort of data collection or analysis do we use in our own practice to plan a reduction in Restrictive Practices?

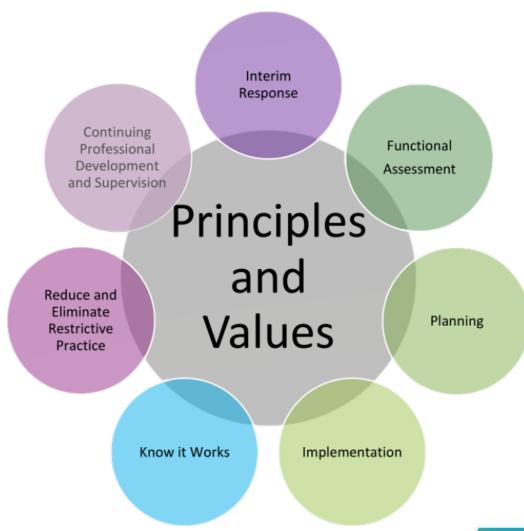


## **Capability Framework and Data**

## Continuing professional development and supervision

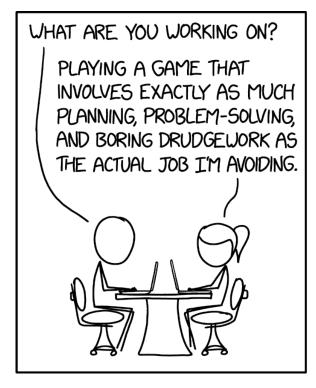
- Conduct regular professional development plans
- Participate in supervision
- Evaluate supervision

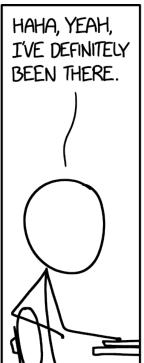
When investigating new techniques or modalities, consider the concepts of *validity* and *reliability*.





## **Barriers To Data Collection**









### **Discussion**

- How does data collection usually go for us?
- What is the quality of the data we receive? Is it usable?
- What do we currently do to facilitate data collection?
- What feedback do we get from staff when we ask for data?
  - Not enough time
  - Too confusing
  - Already collecting data
  - What's the point?



# Considerations when collecting data

- Following a person around to collect data can be dehumanising or embarrassing for a person- particularly in the community.
- Contriving situations to collect data can introduce bias or reduce social or ecological validity.

How do we ethically collect data?



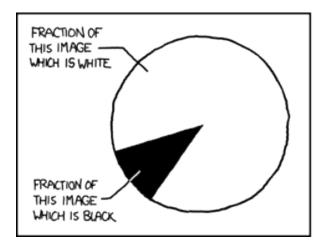
# Considerations when collecting data

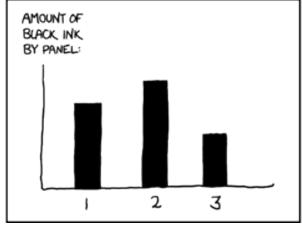
#### What can we do?

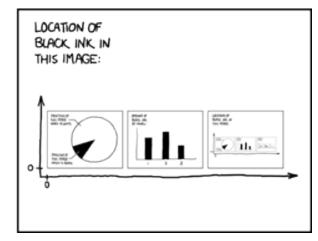
- Discuss data collection with the person and/or stakeholders and get guidance for how they would like this to occur.
- Surreptitiously take data in the community- don't follow the person around with a pen/clipboard and instead use a small slip of paper, write data on your hand, use a behaviour tracking app.
- Limit how much data is taken at once, and identify the most relevant data
  - For example At the grocery store track the use of social skills or shopping skills, not both
- Beware of introducing bias when choosing when/which type of data to collect.



# Reporting Data





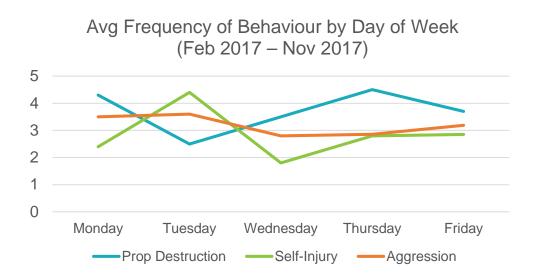


https://www.xkcd.com/688/



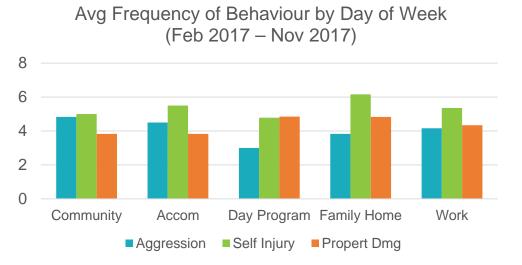
### Visualizing Data – Line Graphs

- Useful for identifying relationships between multiple variables
- Useful for identifying trends across times
- Can show a linear cause and effect
- Independent Variable goes on x axis
- Dependent Variable goes on y axis
- Generally used to show linear/chronological relationships





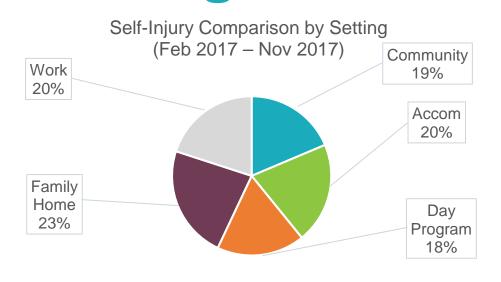
### **Visualizing Data – Bar Charts**

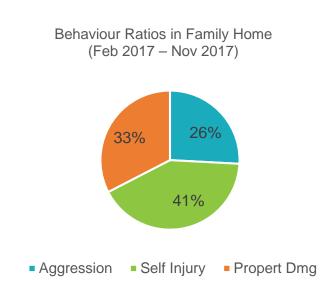


- Compares similar data across categories
- Easily identify extreme values (or lack thereof)
- Identify relationships between variables in specific scenarios



### **Visualizing Data – Pie Charts**





- Useful for looking at one variable across multiple categories
- Show how categories contribute to a whole
- Identify relative strengths or weaknesses



### **Tables**

- Adds credibility to analysis by providing raw data
- Succinct way to display complex or large data sets
- Breaks up "wall of text" in reports
- Easy to reference in your body
- Can combine bold/italics/underline to emphasize certain values

Average frequency per day Feb 2017 – Nov 2017			
	Aggression	Self Injury	Property Dmg
Community	4.83	5	5 3.8
Accom	4.5	5.5	5 3.8
Day Program	3	4.7	4.9
Family Home	3.8	6.2	2 4.8
·			
Work	4.2	5.3	3 4.3



# Tips for discussing data

Where possible, include a brief intro for each data set discussing:

- What data was collected
- How it was collected
- What periods data was collected (e.g. from Dec 2 until Dec 23)
- Concerns about data collection
  - Only collected in one setting, period of collection was 6 months, but an entire month missing, etc.
  - Conscious/unconscious biases ("Narrative data indicates staff are recording thrown objects as both aggression and property destruction")



# Tips for discussing data

- Where necessary, identify your analysis methods ("The median value of December mood rankings indicates")
- Tables and Charts will be numbered, making it easy to refer back to them in body text (e.g. Figure 2 shows...) and ensures you don't have to rewrite what's in the figure/table
- As with the rest of the document, avoid speaking in the first person and act as though the data and figures are people speaking to you (e.g. "Table 1 shows...", "As shown in figure 3", "When comparing averages...")



# Thank you!

If you have any further queries, or would like to discuss other training available, you are welcome to contact me at:



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### Tools, templates and resources

#### Information on defining behaviour and collecting data

- https://accessibleaba.com/blog/data-collection-methods
- https://accessibleaba.com/blog/define-behavior

#### **Data Collection Sheets**

- https://www.earlywood.org/Page/556
- https://www.autismclassroomresources.com/data-collection-in-autism-taking-data/
- https://www.pbisworld.com/data-tracking/

#### Integrity and reliability as quality indicators

https://youtu.be/XYtsrJg1d6g

#### Data collection types explained

https://youtu.be/7QquFBD7AM4

#### **Information on Task Analysis:**

- https://youtu.be/o3PveHDRuM8
- https://www.iidc.indiana.edu/irca/articles/applied-behavior-analysis.html



### Tools, templates and resources

#### Google docs data tracking

https://youtu.be/gcJRVhGrbAY

#### Music based discrete trial training

- https://youtu.be/OlsiC0Cf95I
- https://youtu.be/f7R3lcrut3k
- https://youtu.be/IL7vMsHHTPg

#### Podcast on where to deliver services

 https://soundcloud.com/allautismtalk/where-can-autism-services-take-place-and-what-arethe-ideal-environments-dr-hanna-rue#t=6:15



### Tools, templates and resources

#### **Behaviour tracking apps (Android):**

- ABC tracker
   (https://play.google.com/store/apps/details?id=com.gmail.interfer0.abctracker&hl=en)
- Behavior Observation Made Easy
   (https://play.google.com/store/apps/details?id=com.behaviorobservation&hl=en)
- Behavior tracker
   (https://play.google.com/store/apps/details?id=uk.co.brooklynsoftware.behaviour&hl=en)

#### **Behaviour tracking apps (Apple)**

- Behavior tracker pro (<a href="https://www.behaviortrackerpro.com/">https://www.behaviortrackerpro.com/</a>)
- ABC Data Suite (<a href="http://cbtaonline.com/drupal/products">http://cbtaonline.com/drupal/products</a>)
- Behaviour Observation Made Easy (<a href="https://www.behaviormadeeasy.com/">https://www.behaviormadeeasy.com/</a>)



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