Support staff’s perceptions of discontinuing antipsychotics in people with intellectual disabilities in residential care: A mixed-method study

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Abstract

Background: Although there is little evidence on their efficacy regarding challenging behaviour, antipsychotics are the most used psychotropic drugs in residential intellectually disabled people. Discontinuation is possible for some residential clients with intellectual disabilities. This study aimed to gain insight into support staff’s perceptions of discontinuing antipsychotics in residential clients with intellectual disabilities.

Method: Four focus groups were conducted in this mixed-methods study, followed by a survey.

Results: A large majority of support staff perceive antipsychotics to be effective in controlling challenging behaviour. Support staff regarded themselves as willing to contribute to the discontinuation of antipsychotics, but were more confident about achieving reductions.

Conclusions: The attitude of the majority of support staff towards discontinuation provides a good basis for regularly reviewing antipsychotics use. A reduction plan should include preliminary steps, methods of monitoring and evaluating the process, and establishing measures for dealing with possible crises.

KEYWORDS antipsychotics, challenging behaviour, intellectual disabilities, mixed methods, perceptions

1 | INTRODUCTION

In residential facilities, antipsychotics are the most commonly used psychotropic drugs in people with intellectual disabilities (de Kuijper et al., 2010; Deb et al., 2009; Stolker, Koedoot, Heerdink, Leufkens, & Nolen, 2002). In the Netherlands, the estimated prevalence of their use in residential care in these adults is 32%; in 2010, it was found that 78% of them had been using antipsychotics for over ten years (de Kuijper et al., 2010).

In people with ID, antipsychotics are used for registered indications such as schizophrenia and psychotic episodes, but also for behavioural symptoms without psychotic components, such as aggression or self-injurious behaviour (so-called “off-label” use) (De Kuijper, Van Loon, Steegemans, & Ewals, 2007).

A recent study showed that 58% of residents with intellectual disabilities on antipsychotics used this type of medication for behavioural problems (de Kuijper et al., 2010). These behavioural problems are also referred to as challenging behaviour (CB) without...
psychotic components. CB is defined as “culturally abnormal behaviour(s) of such intensity, frequency or duration that the physical safety of the person or others is likely to be placed in serious jeopardy; or behaviour which is likely to seriously limit use of, or result in the person being denied access to, ordinary community facilities” (Emerson, 1995). Although antipsychotics are frequently prescribed for people with intellectual disabilities and CB, their efficacy is questioned. A systematic review by Matson and Neal, based on twelve studies, showed no unambiguous positive effects of antipsychotic medication on CB in adults with intellectual disabilities (Matson & Neal, 2009). Eight studies showed a significant reduction of CB, whereas four studies did not demonstrate such effects. A number of studies among children with autism and/or intellectual disabilities showed the superiority of risperidone over placebo in RCTs but the findings among adults with intellectual disabilities are not conclusive (Deb, 2016). A major disadvantage of antipsychotics is that it can cause serious neurological, metabolic, cardiovascular, haematological, gastro-intestinal and genito-urinary side effects (Cahn et al., 2008; de Kuijper et al., 2010; de Leon, Greenlee, Barber, Sabaawi, & Singh, 2009).

Given not only the limited evidence on the efficacy of antipsychotic medication for CB in people with ID, but also the occurrence of sometimes serious side effects, the options for its discontinuation are debated in the scientific literature. The first systematic review on reducing or completely discontinuing these antipsychotics in this group found that it is possible to reduce or discontinue them in a substantial number of clients, although not always without adverse effects (Sheehan & Hassiotis, 2016). In the 21 studies in question, the proportion of clients in whom antipsychotics were discontinued ranged from 4% to 74%. The proportion in whom dose reduction was maintained at follow-up ranged from 19% to 83%. The review concluded overall that, although antipsychotics can successfully be reduced or discontinued in a substantial proportion of clients, this is not appropriate in another subgroup due to the re-occurrence of behavioural deterioration.

The same review also showed that no reliable predictors of poor response could be identified. The effects of discontinuation varied between the included studies (n = 21): after reduction or discontinuation, there was weight loss (n = 2), improvement of metabolic parameters (n = 1) and improvement of cognitive functioning (n = 2). Despite the intention of reducing side effects, dyskinesia increased, sometimes transiently (n = 8). Six of the studies reported behavioural outcomes related to discontinuation or reduction. In all six studies, a substantial subgroup was found which showed no (persistent) behavioural deterioration.

If antipsychotics are to be discontinued or reduced effectively, multidisciplinary collaboration is necessary, with the active involvement of the support staff—that is, those who provide daily care and support to people with ID. By observing and reporting behaviour in such clients, these professionals are crucial to proper decision making on the subject (Sheehan & Hassiotis, 2016). They are also the first to be confronted with the possible consequences of the discontinuation in terms of symptomatic deterioration or behavioural disturbances. Besides support staff, also psychologists and physicians will play an important role in clinical decision making regarding discontinuation.

Clinical experience has shown that the topic of reduction or discontinuation of psychotropic medication not only calls for restraint, but also raises concern and/or fear in support staff. However, little is known scientifically about support staff’s perceptions on the matter. Although professionals’ perceptions on use of psychotropic medication in general in people with intellectual disabilities was investigated in some older studies (Aman, Singh, & White, 1987; Christian, Snyersker, Singh, & Poling, 1999; Singh et al., 1996) and in one more recent study (Lalor & Poulson, 2013), none of these studies focused specifically on perceptions on reduction or discontinuation of antipsychotics. Recently, a study was published about knowledge of psychotropic medication of support staff and expectations of support staff regarding the effects of antipsychotics on CB (De Kuijper & Putten, 2017). This study showed that a majority of support staff had expectations of antipsychotics having positive effects on behavioural and cognitive functioning of people with ID, and the researchers classified these expectations as unrealistic.

As support staff are central to care for people with ID, it is crucial to gain insight into their perceptions, which—positively and negatively—can significantly influence the discontinuation process. Greater scientific insight will therefore make it possible to discuss within a multidisciplinary context, possible strategies for successfully discontinuing or reducing these drugs in this population.

This mixed-methods study was thus intended to gain insight into support staff’s perceptions on reducing or discontinuing the long-term use of antipsychotics in residential clients with ID.

2 | METHODS

2.1 | Design

To investigate support staff’s perceptions regarding the discontinuation of antipsychotics in residential clients with ID, we conducted a mixed-methods study (Creswell & Clark, 2011). Through focus group interviews, the first phase consisted of a qualitative exploration of their perceptions. As a method of qualitative data collection, the use of focus groups is an appropriate way of gaining insight into participants’ attitudes, perceptions and opinions (Krueger, 1994). As such a group setting offers opportunities for participants to discuss controversial issues, it has added value over individual interviews (Ketelaar, Hentenaar, & Kooter, 2011). Another strength of these interviews is that they make it possible to discuss matters extensively and to provide insights into the various perspectives of the focus group members.

Next, based on the prevalent perceptions about discontinuing antipsychotics we developed a questionnaire for use in a survey among support-staff members to quantify these perceptions in a larger sample.

The epistemological stance for our mixed-methods research is a pragmatic one, where the research question determined the
successive stages in the research process, starting with qualitative research to obtain in-depth insights into the research topic, and followed by quantitative research to measure variables and statistical trends (Creswell & Clark, 2011; Polit & Beck, 2012; Tashakkori & Teddlie, 2003).

2.2 | Focus groups

To investigate support staff’s perceptions, we conducted four focus groups at three organizations providing residential care for people with intellectual disabilities in the Netherlands, many of whom have severe ID. To meet our inclusion criteria, support-staff members had to work on a ward where at least 30% of the clients used antipsychotics. Twenty-two managers from these wards were asked to recruit support staff for these focus groups. The wards differed with respect to age of the client population, intensity of support and severity of ID. Eventually, with the active contribution of 11 managers, a convenience sample of 29 participants was composed. All participants received an information letter and signed an informed consent form.

To structure the focus group interviews, a topic list was compiled both on the basis of findings from the literature and of inputs by members of an expert group that was composed in preparation for this study. Using the search terms “intellectual disability,” “antipsychotics,” “perceptions,” and synonyms, the PsycInfo, CINAHL, ERIC and PubMed databases were used to find relevant literature. This produced several studies on the prevalence, efficacy and side effects of antipsychotics in people with ID. It also produced some discontinuation studies (Ahmed et al., 2000; De Kuiper, Evenhuis, Minderaa, & Hoekstra, 2014; May et al., 1995; Stevenson et al., 2004) and some older studies on support staff’s general perceptions of the use of psychotropic medication (Aman et al., 1987; Christian et al., 1999; Singh et al., 1996). These all provided inputs for the formulation of topics for the focus group interviews.

The advisory expert group consisted of an intellectual disabilities physician, a ward manager, a senior researcher specialized in anxiety in people with ID, and a manager supervising medical staff, paramedical staff and psychologists. The expert group commented on a first draft of the topic list. Some items were removed and others added. This resulted in the following sequence of main topics: indications for the use of antipsychotics, reasons for discontinuation, attitude towards discontinuation and the preconditions for effective discontinuation (see Table 1).

All focus groups were moderated by the fourth author of this article (KH), an expert nurse and MSc in nursing, who is also an experienced moderator of focus groups. He has extensive experience of working with people with intellectual disabilities and CB.

The focus groups lasted approximately 1.5 hr, were audio-recorded and were transcribed verbatim. Using the qualitative software program NVIVO10, a thematic analysis of the transcriptions was conducted according to Braun and Clarke (2006). To reach agreement on the relevant codewords, the first focus group interview was coded independently by two researchers (BK, LdJ). The next three focus group interviews were coded by the first author (BK), the results being discussed afterwards with the third author (LdJ), a registered nurse and student in nursing science who has extensive working experience with the target group. Relevant themes were determined by the first author and discussed with the third author. The final themes from the focus group interviews were then presented to the participants of the focus group interviews for review (member check). Nine participants responded to our invitation to review the selected themes. They all confirmed the content of our report with the elaboration of themes. The member check did not lead to any further adjustments of the identified themes.

2.3 | Survey

On the basis of the findings from the focus group interviews, which referred to support staff’s perceptions of the discontinuation of antipsychotics, an item pool was generated by the research team. Discussion of this with the expert group led to a first selection of items for the survey. The research team reviewed these items to check that all the items would cover all the themes identified, and that the items would be clearly worded. Next, a first draft of the survey was formulated. It consisted of 29 statements to be scored on a 5-point Likert response format. Two open-ended questions were added on barriers and motivators with respect to discontinuation. The feasibility of the questionnaire was tested using cognitive interviewing (Beatty & Willis, 2007) by five professionals who would not participate in the actual survey. They were asked to complete the questionnaire while additional verbal information was collected with respect to (a) comprehension of the question (question intent, meaning of terms); (b) retrieval from memory of relevant information (recall ability of information;
In the following sections, more detailed findings obtained from the focus group interviews and (partly) related to the two main themes are described on the basis of main topics of the topic list.

### 3.1.1 Indications for the use of antipsychotics

When focus group participants described why clients used antipsychotics, they referred in particular to managing behavioural or emotional disturbances, and less to the treatment of psychiatric disorders. They perceived antipsychotics as helpful in reducing anxiety, agitation, compulsive behaviour and self-injurious behaviour in people with ID. They also considered antipsychotics effective for preventing overstimulation and overreaction in people with ID.

### 3.1.2 Reasons for discontinuation

On the basis of their perception that too many people with intellectual disabilities took a too high dosage of antipsychotics and therefore suffered severe side effects, focus group participants were generally willing to work towards lower dosages. For some participants, the assumption that all medications had adverse effects led to the overall assertion that "less medication is better". Serious behavioural deterioration was seen as the main reason for not further discontinuing antipsychotic medication. Severe medical problems, such as medication overdose or severe fall risk, were considered as definite indications for reducing or discontinuing antipsychotics.

There was another reason for considering discontinuation. In some people with ID, the initial indication for them to use antipsychotics was unknown. In view of the current absence of evident behavioural or emotional disturbances, there were now no clear indications that antipsychotics should be used.

With regard to the management of CB in people with ID, some focus groups participants were aware of the alleged inefficacy of antipsychotics. In the absence of psychotic disorders, this gave them a reason to consider discontinuation. Also they assumed that, as people with intellectual disabilities and CB grow older, there was a chance of CB decreasing gradually as a natural process. At a certain point, it was therefore appropriate to consider discontinuation.

Finally, some participants referred to the trend in health care towards a reduction in the use of various coercive measures, such as fixative straps. In their view, the off-label use of antipsychotics was also a coercive measure, which should thus be avoided as much as possible.

### 3.1.3 Attitude towards discontinuation

Focus group participants formulated their attitudes towards discontinuation mainly on the basis of their previous experiences. They were convinced that it would be possible in very few cases both to discontinue antipsychotic medication completely without behavioural deterioration. In most cases, however, they felt that the main option was not to discontinue these drugs completely, but only to reduce them substantially, and that the limit would be
determined by any significant increases in the symptoms of CB, such as self-injurious behaviour or aggression. In unstable people with intellectual disabilities with persistent CB, even a reduction of antipsychotics was not considered appropriate.

Some participants stated explicitly that they expected a temporary increase in CB during the period of withdrawal. Anticipating severe, irreversible behavioural deterioration, even after a return to the original dose of antipsychotics, some participants saw any discontinuation of antipsychotics as a significant risk to people with ID. In their view, this was an insurmountable barrier against any experiments intended to discontinue antipsychotics.

### 3.1.4 Preconditions for discontinuation

The participants saw an environment with many unpredictable or threatening stimuli as unfavourable to the discontinuation of antipsychotics. A specific example was mentioned in which the presence of too many support-staff members at a facility made it too difficult for them to approach a client in a predictable and safe manner. Also, if support staff have too little time to spend with an intellectual disabilities client who is eligible for discontinuation of antipsychotics, it will not be possible to provide enough support in managing stressful events and social interactions, and in managing any temporary or long-term exacerbations of CB.

In the participants’ view, anxiety and aggression would be reduced by a positive approach that focused on support rather than control. This would increase the options for discontinuing antipsychotics. However, they had reservations about clients with a history of serious aggression incidents and with insufficient opportunities to control their disruptive behaviour. Even a strong supporting environment would then be insufficient to prevent and/or manage the disruptive behaviour of these clients.

Some participants explicitly indicated the need for a thorough plan for the discontinuation of antipsychotics, partly to prepare effectively for possible complications during the discontinuation process. In their view, such a plan should first formulate the positive outcomes that can be achieved by discontinuing or reducing antipsychotics. Second, it should also be determined whether there are any options for further optimizing the conditions for effective discontinuation, such as stress reduction, strengthening of client’s coping skills, or the diagnosis and treatment of physical problems that contribute to CB. Thirdly, before discontinuation procedures start, it should be established whether support staff will be able to handle any temporary or longer-term deterioration in a client’s behaviour.

Participants stated that they would also find it helpful not only if different scenarios were developed regarding clients’ possible responses to the discontinuation of antipsychotics, but also if there were a description of the possible intervention strategies they could use if a client’s behaviour deteriorated. Such interventions could be carried out in collaboration with other members of the multidisciplinary team, and with or without the help of outside experts on CB and crisis management. As crisis-management experts have a more detached perspective of the client situation, they could help support staff overcome the negative emotions caused by any increase in CB (such as anger or fear). It would also be helpful to have clear agreement on the use of emergency medication.

It was also stated that it should be clear which person in the support-staff team was responsible for communication with other members of the multidisciplinary team, especially the physicians. If communication were unstructured, ad hoc decisions could be made too easily, increasing the risk that more sceptical or fearful support staff members stopped or reversed the discontinuation process. Participants felt that decisions on (further) reduction or discontinuation could be based on the scores of a client’s personal early recognition plan, indicating the severity of deterioration of symptoms and CB.

With respect to multidisciplinary collaboration, participants saw the physician as the leading professional in case of discontinuation of antipsychotics. Psychologists’ role in the discontinuation process was described less explicitly.

Noting that the opinion of relatives, as a client’s legal representatives, weighed heavily in decisions on whether or not to reduce antipsychotics, for example by withholding their consent for the reduction of antipsychotics, the participants felt that the role and position of support staff was to some extent comparable with that of relatives. This was due to the relatives’ possibilities for monitoring the clients’ concrete behaviours (e.g., aggression, self-injurious behaviour or more social behaviour) and for assessing the positive and negative consequences of discontinuing antipsychotics. They stated that this central position was not always acknowledged by the other professionals in the multidisciplinary team.

Finally, some participants stated that as they did not have sufficient knowledge about the positive and negative effects of discontinuing antipsychotics, they felt insecure about their role in the decision-making process.

### 3.2 Survey

#### 3.2.1 Data collection and survey-respondents’ characteristics

Data collection took place between April 2015 and June 2015. In total, 347 surveys were distributed in three organizations providing residential care to people with intellectual disabilities on wards where at least 30% of the clients used antipsychotics. A total of 187

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**TABLE 2** Characteristics of survey respondents

| Characteristic                                      | Number of respondents | Mean age in years (SD/range) | Years of working experience (SD/range) | Percentage female/male/unknown | Percentage with nursing training/social work training/nursing and social work training/unknown |
|-----------------------------------------------------|-----------------------|------------------------------|----------------------------------------|--------------------------------|------------------------------------------------------------------------------------|
| Number of respondents                               | 187                   | 38 (11.8/19–63)              | 13 (10.0/0–44)                        | 68/30/2                        | 20/62/14/4                                                                            |
### Table 3: Agreement with survey statements (expressed as a percentage)

| Precondition for discontinuing antipsychotics n (%) | Strongly disagree | Disagree | Neither agree nor disagree | Agree | Strongly agree |
|----------------------------------------------------|-------------------|----------|----------------------------|-------|---------------|
| I know whether or not clients using antipsychotics have been diagnosed with a psychotic disorder. | 0 (0) | 13 (7) | 35 (19) | 120 (65) | 17 (9) |
| The side-effects of antipsychotics are very stressful for clients. | 0 (0) | 9 (5) | 89 (48) | 82 (44) | 7 (3) |
| Antipsychotics are effective in controlling challenging behaviour. | 2 (1) | 17 (9) | 50 (27) | 112 (60) | 5 (3) |
| A considerable number of clients use antipsychotics but derive nearly no benefit from them. | 5 (3) | 63 (34) | 76 (41) | 40 (21) | 1 (1) |
| For a considerable number of clients, the dosage of antipsychotics is too high. | 2 (1) | 37 (20) | 86 (47) | 56 (31) | 2 (1) |
| Indications for the use of antipsychotics n (%) | | | | | |
| I recognize the side-effects of antipsychotics. | 0 (0) | 17 (9) | 53 (29) | 112 (60) | 4 (2) |
| I am aware of the possible harmful long-term side-effects of antipsychotics. | 0 (0) | 29 (15) | 42 (23) | 103 (56) | 11 (6) |

(Continues)
surveys were returned (response rate 54%). The respondents’ mean age was 39 years (range 19 to 63, SD = 11.8); their mean working experience was 13 years (range 0 to 44, SD = 10.0). Sixty-eight per cent of the respondents were female. Twenty per cent had had nursing training, 62% had trained in social work, and 14% had a combination of the two. The training background of 4% of the participants was unknown. The respondents’ characteristics are presented in Table 2.

3.2.2 | Findings of the survey

Based on the topic list of the focus groups, the findings of the survey are presented in four clusters: (1) indications for the use of antipsychotics, (2) reasons for discontinuation, (3) attitude towards discontinuation and (4) the preconditions for discontinuation. In our presentation of these findings, the Likert scale answers "strongly disagree" and "disagree" were merged, as were the answers "agree" and "strongly agree." The survey findings and the answers to the open-ended questions are given below. A complete summary of the answers of the survey is presented in Table 3.

### Indications for the use of antipsychotics

**Off-label use:** The first statement referred to the support staffs’ knowledge of whether the clients using antipsychotics had been diagnosed with a psychotic disorder. A large majority of respondents (74%) confirmed that they knew whether or not clients using antipsychotics have been diagnosed with a psychotic disorder.

### Reasons for discontinuation

**Side effects:** The survey showed that 47% of respondents perceived the side effects of antipsychotics to be very stressful for clients, and that only 5% disagreed that this was the case. Almost half the respondents (48%) neither agreed nor disagreed.

**Efficacy:** The efficacy of antipsychotics was barely questioned: only 10% of respondents disagreed with the statement that antipsychotics are effective in controlling CB. At the same time, 22% agreed with the statement that even though they have almost no benefit, antipsychotics are used for a considerable number of the clients.

**Too high a dosage:** Thirty-two per cent of respondents stated that the dosage of antipsychotics was too high in a considerable number of clients. Twenty-two per cent disagreed. A large number of respondents (47%) neither agreed nor disagreed.

### Attitude towards discontinuation

**Motivation:** A majority of support staff (64%) regarded themselves as willing to contribute to the discontinuation of antipsychotics in a proportion of their clients. At team level, a minority (21%) considered their support-staff team to be too reluctant about discontinuing antipsychotics.

**Possible success rate:** Almost half of the respondents (41%) felt that antipsychotics could not be discontinued in a considerable number of clients, while 23% felt that they could be discontinued. This is in line with the finding that 45% of respondents believed that discontinuation of antipsychotics would not be possible at their own facility. Forty-eight per cent of respondents agreed with the statement that complete discontinuation can be reached only in exceptional cases, while 22% neither agreed nor disagreed. This left a minority of 30% with a more positive expectation regarding the number of clients in whom complete discontinuation was possible. However, a 68% majority of respondents felt that it would be possible to reduce the dosage in a considerable number of their clients. Only 5% of respondents agreed with the statement that more clients should be prescribed antipsychotics.

While 52% neither agreed nor disagreed with the statement that discontinuation is a huge risk for clients, comparable numbers of respondents agreed (27%) and disagreed (21%).

**Consequences of discontinuation:** While a 28% minority of respondents felt that reducing antipsychotics always caused a behavioural deterioration in clients, 35% disagreed with this statement. And while 23% of respondents agreed with the statement that the discontinuation of antipsychotics causes an unjustifiable lack of safety, 33% disagreed.

### Preconditions for discontinuation

**Influence:** A 56% majority of respondents perceived that sufficient account was taken of their input within the multidisciplinary team regarding decisions on discontinuing or reducing antipsychotics, while 17% considered that it was not. Almost two-thirds of respondents felt they could influence decisions about discontinuation in relation to safety issues (63%) or a client’s quality of life (63%). While 15% believed that decisions about discontinuation were taken too unilaterally by a physician, 60% disagreed. A quarter was thus undecided.

**Multidisciplinary collaboration:** A large majority (86%) perceived the psychologist’s expertise on discontinuing antipsychotics to be indispensable. A large number of respondents (62%) considered

| Statement                                                                 | Strongly disagree | Disagree | Neither agree nor disagree | Agree | Strongly agree |
|---------------------------------------------------------------------------|-------------------|---------|---------------------------|-------|----------------|
| I know when to consult a physician about side-effects.                    | 0 (0)             | 11 (6)  | 28 (15)                   | 138 (75) | 8 (4)          |
| I am aware of the phenomena that may occur during discontinuation of antipsychotics. | 0 (0)             | 18 (10) | 24 (13)                   | 135 (73) | 8 (4)          |

**Notes.** QoL: quality of life.

“a considerable number of clients” was defined as “a quarter or more”.

**TABLE 3 (Continued)**

| Statement                                                                 | Strongly disagree | Disagree | Neither agree nor disagree | Agree | Strongly agree |
|---------------------------------------------------------------------------|-------------------|---------|---------------------------|-------|----------------|
| I know when to consult a physician about side-effects.                    | 0 (0)             | 11 (6)  | 28 (15)                   | 138 (75) | 8 (4)          |
| I am aware of the phenomena that may occur during discontinuation of antipsychotics. | 0 (0)             | 18 (10) | 24 (13)                   | 135 (73) | 8 (4)          |
consultation from outside the team to be necessary to discontinuing antipsychotics in a responsible manner. While almost half the respondents (44%) considered that relatives’ opinions on decisions to discontinue were important, 13% disagreed, and 43% were undecided.

Plan: Almost full agreement was reached on the statement that discontinuation needs a clear plan. Respondents felt that having different scenarios how clients could react would help them to anticipate clients’ possible reactions during discontinuation or dosage reduction.

Knowledge: In their perception, a large number of respondents had sufficient knowledge for the following: taking part in multidisciplinary consultation (43%), being able to recognize side effects of antipsychotics (62%) and being aware of the possible harmful long-term side effects of antipsychotics (62%). Seventy-nine per cent perceived themselves as being able to determine when to consult a physician in the event of serious side effects, and 77% felt that they were aware of possible occurrence of phenomena or withdrawal symptoms during discontinuation.

Open-ended questions

In the open-ended questions, respondents were asked what motivated them most about contributing to the discontinuation of antipsychotics, and what were important barriers to doing so. A number of 161 respondents answered the question about motivating factors, and 140 respondents answered the question about barriers.

Six motivating factors were identified: reducing side effects \((n = 44, 24%)\), decrease of blunted affect \((n = 24, 13%)\), belief in the general principle of “the less medication, the better” \((n = 19, 10%)\), a belief that the efficacy of antipsychotics diminished over time \((n = 9, 6%)\), the need to reduce too high a dosage of antipsychotics \((n = 7, 4%)\) and the options for providing tailored support rather than behavioural management through antipsychotics \((n = 6, 3%)\).

Nine barriers were identified: the risk that behavioural deterioration would recur, threatening the safety either of a client \((n = 12, 6%)\) or of support staff \((n = 12, 6%)\); a belief that support staff had insufficient influence on the discontinuation process \((n = 11, 6%)\), a belief that respondents had insufficient knowledge \((n = 11, 6%)\), uncertainty due to the expected unpredictability of the clients’ behaviour that would result from discontinuation \((n = 9, 5%)\), lack of sufficient time to support clients \((n = 8, 5%)\), insufficient availability of multidisciplinary consultation \((n = 7, 4%)\), insufficient competencies of team members to cope with possible behavioural deterioration \((n = 7, 4%)\) and the danger that the dose of antipsychotics would be reduced too fast \((n = 5, 3%)\).

4 | DISCUSSION

In this mixed-methods study, four focus groups preceded a survey intended to gain insight into support staff’s perceptions on discontinuing antipsychotics in residential clients with ID.

A large majority of support staff were of the opinion that antipsychotics control CB effectively. They were aware of the side effects of antipsychotics and viewed blunted affect as the most stressful side effect. Although a majority of support staff considered themselves to be willing to contribute to the discontinuation of antipsychotics, they were more confident about achieving dose reductions than about achieving complete discontinuation. They underscored the importance of a number of conditions regarding the successful reduction or complete discontinuation of antipsychotics, for example availability of sufficient time to support the client during stressful events, the availability of a plan to respond to possible complications during discontinuation and structured communication with other members of the multidisciplinary team.

When comparing the outcomes of this current study with the study of expectations of support staff regarding the effects of antipsychotics (De Kuijper & Putten, 2017), both studies found that a majority of support staff considered antipsychotics as effective in controlling or diminishing challenging behaviour. The positive view of support staff is not supported by unambiguous scientific evidence on the antipsychotics’ efficacy in controlling CB (Deb, 2016; Matson & Neal, 2009).

Given the absence of reliable predictors for successful discontinuation, a methodically supported trial-and-error strategy seems to be the only way to determine a specific individual’s options for reduction or complete discontinuation (Sheehan & Hassiotis, 2016). Our study showed that, when discontinuing antipsychotics, support staff regarded a thorough, tailor-made and proactive plan to be supportive. As well as preparing, monitoring and evaluating the discontinuation process, such a plan should include measures to improve support staff’s capacity for dealing effectively with possible deterioration or crises. Based on the findings of our study and in line with Deb et al. (2009), we can make the following recommendations:

It is necessary to identify factors from the past that may trigger CB in the client. Next, proven effective strategies should be established that allow support staff and other members of the multidisciplinary team to prevent these triggers or to deal with them effectively. These strategies should provide options for emergency medication and practical assistance in the event of severe behavioural deterioration. When determining these strategies, it should also be determined whether specific conditions should be created that enable the support staff team to cope with any deterioration. Such conditions might include replacing temporary workers with permanent support staff or adding more experienced support staff.

In multidisciplinary collaboration, it will be necessary to develop a structured and tailored strategy for monitoring during discontinuation. This should focus on clients’ behaviour and quality of life, and also on the safety of clients and the people in their environment. As a reference point during the discontinuation process, a baseline assessment of the client’s behaviour must also be established before discontinuation is started. This should include components such as aggressive behaviour, self-injurious behaviour, agitation, restlessness, sleeping behaviour, eating...
behaviour, expressions of relaxation or joy, and other unique personal behaviours.

After this baseline assessment, the discontinuation procedures can start, and be followed by planned multidisciplinary evaluations, in which it will be necessary to decide on the pace of the subsequent steps and the phasing of dose reduction. In case of unforeseen events or crises, interim and unscheduled consultations should be organized. By contributing to the baseline behaviour assessment, the psychologist plays an important role in the preparatory phase, and also in the monitoring and evaluation phases, hypothesizing—in close collaboration with support staff—on possible explanations of changes in behaviour and determining appropriate intervention strategies.

Results from focus group interviews showed that most participants saw the physician as the leading professional in discontinuation of antipsychotics and described the psychologists role less explicitly. This finding is in line with the outcomes of a cost-effectiveness study for the management of aggressive behaviour of Unwin and colleagues, who concluded that there is an overreliance of medication and psychiatrists, and a relatively lesser involvement from other multidisciplinary team members such as nurses and clinical psychologists (Unwin, Deb, & Deb, 2017). This was not reflected in the results of our survey item regarding the required psychologists expertise in the process of discontinuation of antipsychotics. More insights are needed on the division of tasks of physicians and psychologists regarding discontinuation of antipsychotics.

If antipsychotics reduction or discontinuation is to proceed according to the proposed plan, this generates a systematic approach to determine whether clients should indeed continue to take antipsychotics. If undertaken in a spirit of close multidisciplinary collaboration, a proactive, cautious, careful and methodical approach to such a plan will also enhance support staff’s professional competence.

Strength of this study is that it is the first study to examine support staff’s perceptions of discontinuation of antipsychotics in people with ID. Such staff play an important role in any discontinuation or reduction of antipsychotics: they are the first to be confronted with—and deal with—any changes in behaviour, and the first to observe and report relevant signs and symptoms in these clients. Another strength of this study lies in the content of the survey, which to list relevant perceptions about the discontinuation of antipsychotics, was based on insights gained not only from the available literature, but also from preparatory focus groups. Another strength is that, through the focus groups and survey, we collected data in three different organizations. This increases the generalizability of our findings. This study was conducted in a Dutch residential setting, whose care facilities may have differed from those in other countries. It nonetheless seems reasonable to assume that support staff in other settings, including ambulatory settings, face similar challenges regarding reducing or discontinuing antipsychotics.

The most important limitation of this study is that this study was conducted in residential clients with ID, most of them with severe ID. This means that staff’s perceptions regarding people with a mild intellectual disabilities are underexposed.

5 CONCLUSION

A majority of support staff considers antipsychotics effective in controlling CB. This position is not supported by unambiguous scientific evidence. Despite their limited confidence in the feasibility of discontinuing antipsychotics, we conclude that most support staff consider themselves to be willing to collaborate on discontinuing them where possible. When considering or implementing discontinuation or reduction, a detailed plan is needed. Such a plan should develop strategies for effective monitoring and for regular evaluations during the discontinuation or reduction process. It should also include measures necessary to improving support staff’s capacities for dealing effectively with possible crises.

To optimize discontinuation procedures, further research is needed on the development and evaluation of discontinuation interventions.

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