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Cognitive-behavioral therapy for eating disorders in primary care settings:

Does it work, and does a greater dose make it more effective?

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Cognitive-behavioral therapy for eating disorders in primary care settings:

Does it work, and does a greater dose make it more effective?

Abstract

Objective: This study aimed to determine whether cognitive behavioral therapy (CBT) for eating disorders can be effective in a routine, primary care clinical setting, and to assess dose response.

Methods: The participants were 47 patients who commenced treatment with a publicly-funded primary care eating disorder service. They attended 7-33 sessions of individual CBT (mean = 17), using an evidence-based approach. Routine measures were collected pre- and post-therapy.

Results: Three-quarters of the patients completed treatment. Using intention to treat analysis (multiple imputation), the patients showed substantial improvements in eating attitudes, bulimic behaviours and depression. However, there was no association between the level of improvement and the length of therapy past the 8th to 12th session.

Discussion: The level of effectiveness shown here is comparable to that previously demonstrated by more specialist services in secondary and tertiary care. The non-linear association between number of sessions and recovery highlights the importance of early change, across the eating disorders.

Key words:
Cognitive-behavioral therapy; community sample; treatment dose; eating disorders
Cognitive-behavioral therapy for eating disorders in primary care settings:

Does it work, and does a greater dose make it more effective?

Eating disorder services are configured differently both within and between countries, according to national and local patterns of provision. Many are specialist services at secondary or tertiary levels of care, taking referrals from more generalist primary care level services. However, such specialist services are not always present, and they do not always have the capacity to see the full range of patients with eating disorders (e.g., not accepting referrals for individuals with binge-eating disorder; not treating non-underweight cases).

Where services have to select which patients they have the capacity to see, they are likely to focus on anorexia nervosa cases, given their higher risk levels. Such services also tend to see patients for extended periods of time. While existing evidence-based protocols recommend relatively long periods of treatment for eating disorders compared to anxiety and depressive disorders, it is clear that clinicians routinely extend therapy so that it is substantially longer than those recommendations (e.g., Cowdrey & Waller, 2015). Consequently, many clinicians and services have a relatively slow turnover of cases, making it even less likely that patients in the community will be able to access treatment.

As a result of this limited access to specialist services, some primary care eating disorders services have been established (Devlin, 2014) with the intention of providing treatment for normal-weight patients within non-specialist services. They do not have the range of professional backgrounds that are common in specialist eating disorders teams, but usually have training in appropriate therapies. For adult patients, this therapy base is commonly cognitive behavioral therapy (CBT), given its proven benefits in clinical trials (Fairburn et al., 2009) and in routine practice in specialist eating disorder services (Byrne, Fursland, Allen & Watson, 2011; Knott, Woodward, Hoekens & Limbert, 2015; Turner et al., 2015). However, no studies to date have explored the effectiveness of CBT for eating disorders when delivered in a primary care setting. This study addresses the effectiveness of CBT in such settings, in order to determine whether such services are able to provide outcomes that are comparable to those in secondary and tertiary care levels.
In addition to providing access to services, it is also important to consider the duration of therapy in such settings. If therapy can be delivered over a shorter time frame, this would allow for more patients to be treated from within the same resources. While recommendations for length of treatment for CBT for eating disorders vary from 15-40 sessions (depending on the version of CBT and the patient’s BMI - Fairburn, 2008), there is provision within protocols for CBT to be extended if appropriate (Fairburn, 2008; Waller et al., 2007). However, effectiveness studies have also suggested that the therapy might be shortened in response to early changes, as well as allowing for extension (e.g., Turner et al., 2015). While it might be assumed that adding more sessions would have a stronger clinical effect, there is some indication that therapy effects are not linear with time. There is usually a dose-response effect at first, which tails off to show limited or no gains thereafter. For example, Delgadillo et al. (2014) have demonstrated that the optimal length of therapy for mild to moderate anxiety and depression is approximately 4-6 sessions, and that additional sessions do not result in better outcomes. In the eating disorders, Bell et al. (2017) have shown a similar pattern in a specialist service – within a group of patients receiving a mean of 16.2 sessions of one of a range of therapies, there was no link between treatment duration and outcomes, even among anorexia nervosa cases. Such a pattern stresses the importance of early gains, so that greater change levels are in place before the dose response effect has faded. However, the possibility of such a pattern is yet to be established in non-specialist eating disorders services of the type outlined above, to allow clinicians to plan for the optimum number of sessions to be offered.

Given the limited evidence base regarding eating disorder services in primary care settings, this study has two aims. First, it will determine whether CBT for eating disorders can be effective in a routine, primary care setting. Second, it will assess dose response - does the provision of more treatment sessions continue to facilitate further recovery gains?

**Method**

**Ethics**

The local National Health Service (NHS) Research and Development Office
approved collection of these outcome data as a service evaluation. Thus, NHS Research Ethics Committee approval was not required. Service users provided consent for their data to be used for this purpose.

Participants

The patients were aged 18 years or above at the point where they were referred to the service by their General Practitioner. All referred patients were triaged to ensure that they met the criteria for the service (body mass index \( \geq 17 \); not requiring multiagency/multidisciplinary care to address additional psychiatric or social needs; no alcohol or substance abuse; no psychotic diagnosis; medically stable and monitored by the responsible family physician). Each had a DSM-5 (American Psychiatric Association, 2013) diagnosis of anorexia nervosa, bulimia nervosa, atypical anorexia nervosa or atypical bulimia nervosa. Other OSFED cases and binge-eating disorder cases were not eligible for the service, due to local service commissioning arrangements. Unlike Knott et al. (2015), motivation to engage in therapy was not an eligibility criterion.

All patients who attended for assessment and met the criteria agreed to participate in therapy (though some dropped out later – see below). At the time of data collation, the case series consisted of 47 patients who started CBT for eating disorders with a UK primary care eating disorders service. Forty-four were female and three were male. Eleven had a diagnosis of anorexia nervosa and six had a diagnosis of atypical anorexia nervosa (BMI above 18 and below 20, with marked restriction of intake and current weight loss), while 29 had a diagnosis of bulimia nervosa and one had a diagnosis of atypical bulimia nervosa (frequency of bulimic behaviour below the DSM-5 criteria).

Treatment

All patients were treated individually in primary care settings. They were seen by therapists who had been trained in the delivery of CBT via the UK Improving Access to Psychological Therapies (IAPT) programme, which is a scheme focusing on the delivery of evidence-based treatments (particularly CBT) for common psychological disorders (though not eating disorders). Each of the therapists was supervised weekly from within the team.
CBT – Effectiveness and dose-response

(i.e., by other eating disorder clinicians with the same training background) rather than by external specialists. The therapists included one counsellor, two occupational therapists, a trainee clinical psychologist and one nurse.

The CBT was based on individual case formulations, as described by Ghaderi (2006). Treatment included: conceptualisation of beliefs about food, eating, body image and emotion; sharing of information about regular eating, food and weight; in-session open weighing; support in identifying triggers to eating disorder behaviors through food records; and exposure/behavioral experimentation to address barriers to regular balanced, flexible eating. Where formulation identified maintenance caused by specific beliefs relating to the meaning of body image, those beliefs were targeted. Where behaviors such as body checking or avoidance were identified as maintaining body image importance, then behavioral experiments were planned as homework tasks. In-session mirror exposure was not used.

Early sessions included completion of assessment and formulation, moving to the focus on behavioural change outlined above. When patients stated that they wanted to control their weight in a maladaptive way (e.g., restrict; remain underweight; avoid dietary normalisation), formulation and psychoeducation was used to Socratically explore the potential impact of making changes (e.g., reduced preoccupation, bingeing and purging; positive effect on relationships) in order to enhance motivation for change.

Those starting treatment with a BMI of 17-18 were offered up to 30 weekly sessions in order to allow sufficient time for weight restoration. Other patients were usually offered up to 20 weekly sessions. Sessions were booked in 4-6 week blocks. If the patient failed to develop motivation towards constructive change (e.g., they maintained efforts towards weight loss), therapists were advised to discontinue CBT after eight sessions. If recovery goals were achieved early (i.e., before the 20-30 sessions were concluded), therapists were advised to aim to complete sessions sooner, following completion of maintenance planning.

Measures

As indices of the dose of CBT, the number of sessions completed and the number of
weeks in therapy were recorded. Height and weight were measured at the outset of
treatment, and weight was measured at each session thereafter. The duration of the eating
disorder was recorded from clinical assessment. Each patient completed the following two
well-validated measures at the beginning and end of therapy.

**Eating Disorders Examination-Questionnaire** (EDE-Q, version 6; Fairburn &
Beglin, 2008). The EDE-Q is a 33-item self-report questionnaire, which measures disordered
eating attitudes and behaviors over a 28-day period. The EDE-Q Global score is a summary
of the four attitudinal subscales (Eating Concern, Shape Concern, Weight Concern, and
Restraint). The Global score was used in this case because it has better psychometric
properties than the subscales (Allen, Byrne, Lampard, Watson & Fursland, 2011). The EDE-
Q was also used to provide frequencies of objective binge-eating, vomiting and laxative
abuse (over the previous 28 days).

**Patient Health Questionnaire** (PHQ-9; Kroenke, Spitzer & Williams, 2001). The
PHQ-9 is a nine-item self-report questionnaire, which measures symptoms of depression
over a two-week period.

**Data analysis**

Ten patients did not complete therapy, and two negotiated leaving therapy early due
to reluctance to engage in change (loss to therapy rate = 25.5%). A further three patients
completed the treatment but did not provide final outcome data (loss to research rate =
32%). Prediction of attrition was tested using chi-squared and independent sample t-tests.

Intention to treat analyses were used to determine the outcome of treatment. Multiple
imputation (SPSS v.24 – Fully Conditional Specification method, based on linear regression)
was used to deal with missing data. Paired t-tests were used to determine changes in
symptoms, and Cohen’s $d$ was used as the measure of effect size. Remission was defined
by the patient meeting the following criteria at the end of therapy – BMI > 18.5, absence of
any binge or purge behaviours over the previous month, and an EDE-Q Global score of <
2.77 (one SD above the mean for a UK non-clinical female population).

Partial correlations (controlling for initial EDE-Q score) were used to determine the
association of temporal factors (age, duration of disorder, number of sessions, duration of
treatment in weeks), initial BMI and initial PHQ-9 scores with final EDE-Q and PHQ-9
scores. Finally, curve fit estimates were used to determine whether there was a relationship
between therapy dose (number of sessions; number of weeks) and the level of change
across therapy (completer sample only). Independent samples t-tests were used to
determine whether those receiving more therapy sessions had different outcomes to those
who received fewer, based on the cut-point suggested by those curve fit estimates.

Results

Sample characteristics

Initial EDE-Q and PHQ-9 scores were available for the 47 patients who started
treatment. Demographic details were available on all of these patients, apart from duration of
treatment for three patients and weight for four patients. All four with missing weights had
diagnoses of bulimia nervosa and were at a normal weight (as confirmed at subsequent
therapy sessions). At the beginning of treatment, the mean BMI of the sample was 22.5 (N =
43; SD = 3.87; range = 17.04-32.94). Their mean age was 27.1 years (N = 47; SD = 6.64;
range = 18-42), and the mean duration of the eating disorder was 9.22 years (N = 44; SD =
6.53; range = 1-23). Thirty-five of these patients completed treatment. End of therapy EDE-Q
and PHQ-9 scores were available for 32 patients.

Predictors of attrition

Twelve patients did not complete therapy. This included both those who stopped
attending sessions without prior discussion, and those who negotiated early termination of
therapy sessions due to being unwilling or unable to work on recovery goals within the
service. Thus, there was an overall drop-out rate of 25.5%. There was no evidence that
completer status was associated with diagnosis (chi-squared = 2.73, df = 6, NS) or with any
temporal characteristic (age, duration of eating disorder, number of treatment sessions,
number of weeks in treatment – F < 2.4, P > .11 in all cases). Independent sample t-tests
were used to compare those who completed therapy and those who dropped out on BMI,
EDE-Q and PHQ-9 scores, but no comparison approached significance (t < 1.7, P > .12 in all
cases). Therefore, as with other such studies (e.g., Byrne et al., 2011; Waller et al., 2014), there was no evidence of pre-treatment characteristics that predicted attrition.

**Outcome of treatment for eating disorders**

The mean length of treatment for the patients who completed treatment was 17 attended sessions ($SD = 5.84; \text{range} = 7-33$), delivered over a mean of 25.2 weeks ($SD = 10.2; \text{range} = 10-51.7$). It is noteworthy that there was no significant difference in either the length of treatment in weeks or in the number of sessions completed by anorexia nervosa or bulimia nervosa cases ($t < 1.4$ for each of these two treatment duration variables).

Table 1 shows the patients’ BMIs, frequency of bulimic behaviours (objective binges, vomiting and laxative abuse), EDE-Q and PHQ-9 scores at the beginning and end of treatment. Their pre- and post-therapy scores were compared using paired t-tests (multiple imputation used to correct for missing data). Effect sizes are shown using Cohen’s $d$ (corrected for paired samples). BMI and frequency of laxative abuse were unchanged across treatment, but there were significant reductions in eating attitudes, depression and bulimic behaviours. The effect sizes were small to medium for reduction in binge-eating, medium for the reductions in eating attitudes and vomiting, and large for the reduction in depression levels. Mean PHQ-9 and EDE-Q total scores both fell to below the clinical scores that have been identified as indicating a shift to more healthy ranges.

The pre-treatment EDE-Q Global score of this sample (mean = 3.89) was very similar to the comparable intention to treat figures for Byrne et al.’s (2011) and Turner et al.’s (2015) clinical samples (means = 3.96 and 4.17, respectively). The end of treatment score for this group (mean = 2.33) was slightly lower than those of Byrne’s and Turner’s samples (mean = 3.00 and 2.92, respectively), which might reflect the more limited inclusion criteria used in this clinical setting.
Remission rate

Eleven patients met the full remission criteria at the end of therapy. This represents 23.4% of the 47 patients who started therapy, and 34.4% of the 32 patients who completed therapy and provided the necessary data. These results are similar to the remission rates reported from specialist eating disorders services in effectiveness studies (Turner et al., 2015).

Association of patient characteristics with level of improvement

Table 2 shows the associations (partial correlations, controlling for initial EDE-Q scores) of pre-treatment characteristics (age, duration of eating disorder, BMI, PHQ-9) and therapy duration (weeks in treatment; number of sessions attended) with post-treatment EDE-Q Global and PHQ-9 scores. The analyses involving treatment duration were carried out for the treatment completers only. None of the associations with initial characteristics approached significance, indicating that treatment outcome was not moderated by initial severity.

Association of treatment duration with level of improvement

The duration of treatment (measured either in terms of number of sessions or number of weeks) was also not associated with the final levels of eating attitudes or depression (Table 2). Such a lack of associations might be explained by therapy effects being non-linear. For example, effects of early treatment gains might result in a non-linear pattern of association, where there was less change to be made later in therapy. Therefore, curve fit estimates were calculated, to determine whether the best explanation of treatment outcomes (change in EDE-Q total; change in PHQ-9; change in BMI) was a linear, quadratic or cubic association with each therapy duration variable (length in weeks; number of sessions). The curve estimates showed that the length of treatment in weeks was not
associated with change in EDE-Q total score, regardless of whether one considered the linear, quadratic or cubic effects ($F < 0.6$ in all cases). Nor was there any effect of length of treatment on change in PHQ-9 scores ($F < 1.7$ in all cases) or BMI ($F < 0.45$ in all cases). Similarly, the number of sessions was not associated in any of these ways with change in EDE-Q total scores ($F < 0.5$ in all cases), PHQ-9 scores ($F < 1.5$ in all cases), or BMI ($F < 1.0$ in all cases). Examination of the curves demonstrated that the optimum length of therapy was between eight and 12 sessions, with gains by that point but no pattern of further gains thereafter.

To test this examination of the curves, the degree of change in clinical characteristics was compared between those patients who received up to 12 sessions ($N = 14$) and those who received more ($N = 23$), using independent sample t-tests (multiple imputations used to correct for missing data). The improvement in EDE-Q scores was slightly greater among those patients who had fewer sessions (mean reduction = 1.89, $SE = 0.38$) than among those who had more sessions (mean reduction = 1.23, $SE = 0.45$). BMI change also differed slightly between those who had fewer sessions (mean increase = 0.48, $SE = 0.73$) and those who had more (mean reduction = 0.18, $SE = 0.73$). Finally, the reduction in PHQ-9 scores was slightly lower among those patients who had fewer sessions (mean reduction = 5.29, $SE = 1.50$) than among those who had more sessions (mean reduction = 6.76, $SE = 1.25$). However, in none of these cases did the difference approach significance ($t < 1.0$; NS in all cases). These findings support the conclusion that additional sessions did not result in better outcomes.

**Discussion**

This study aimed to establish whether CBT could be effective in the treatment of eating disorders when delivered within a primary care setting, and to determine whether there is a dose-response effect. The retention rate (c.75%) was strong relative to other effectiveness studies (e.g., Byrne et al., 2011; Turner et al., 2015). CBT was effective in this setting, reducing eating disorder symptoms and depression. The level of remission was similar to that shown in effectiveness studies conducted in specialist eating disorder
services. There was no dose-response effect within this sample, despite the wide range of
sessions (7-33) and despite the fact that clinicians were able to extend the therapy duration
on a case-by-case basis, if they judged that the patient would benefit from more sessions.

These findings add to the evidence (e.g., Byrne et al., 2011; Fairburn et al., 2009;
Knott et al., 2015; Turner et al., 2015) that the effects of CBT for adults with eating disorders
are generalizable across settings and service configurations, although this conclusion would
be firmer if there had been a waiting list control group. It is possible that the impact would
have been even greater if mirror exposure work had been used for patients with body
avoidance issues. It is worthy of note that these benefits were achieved despite the mean
duration of the patients’ eating disorders (9.22 years) being longer than is commonly used in
definitions of ‘severe and enduring’ eating disorders, adding to the evidence that the duration
of eating disorders is not related to poor outcomes (e.g., Wildes et al., 2017). The lack of
reliable predictors of attrition is similar to findings in the wider literature (Byrne et al., 2011;
Turner et al., 2015), though it is possible that studies with a larger number of participants will
find such predictors, possibly pointing to heuristics that might be used for treatment matching
purposes.

The findings also confirm the finding from the eating disorders and other disorders
(e.g., Bell et al., 2017; Delgadillo et al., 2014) that adding sessions beyond a basic level
does not automatically enhance therapy outcomes. It is well-established that early change in
CBT for eating disorders is very important for longer-term outcomes (Raykos et al., 2013;
Turner et al. 2015; Waller et al., 2014). If treatment gains are limited after 8-12 sessions,
then the importance of making substantial early gains is even more vital than has been
suggested previously. However, such a conclusion will depend on these findings being
replicated with a wider range of outcome measures, and with a well-validated diagnostic
interview (which was not available for this clinical sample). Constructs that were not
specifically measured in this clinical study (e.g., quality of life; longer-term abstinence and
remission) might be influenced more by longer therapy, and therefore merit consideration in
future.
There are a number of ways in which this research needs to be extended. For example, studies of single diagnostic groups of patients would be helpful, as it is possible that the findings will differ according to the ego syntonicity or dystonicity of the disorder (e.g., anorexia nervosa patients might need longer to engage with the treatment). It will also be important to understand whether the pragmatic considerations that were implemented in this real-life setting (e.g., shortening therapy when it was clear that the patient was not demonstrating motivation to change or when the patient improved rapidly; lengthening therapy when further work appeared likely to be useful) mean that the findings partially reflect clinician decisions rather than patient change per se. Schibbye et al. (2015) suggest that it is possible to develop algorithms for use in progress monitoring and supervision to enhance such clinical decisions. It should also be noted that this study’s generalisability was limited by the fact that the service was not commissioned to treat patients with binge-eating disorder. Finally, it will also be important to consider how one could measure therapist competence and treatment fidelity in such real-life settings, as the lack of such measurements is a weakness in this and most such studies. Measures of competence and fidelity that can be applied readily using the resources available in everyday clinical settings would be an asset for demonstrating the viability of rolling out evidence-based therapies to real-life clinical practice.

If these findings are replicated and extended, they support treatment of eating disorders within primary care settings, delivered by individual practitioners working in clinical teams consisting only of CBT therapists. However, they also raise the important consideration of how long such therapies should be. If the maximum dose response can be achieved in a much shorter number of sessions than recommended (e.g., Fairburn, 2008), then the commonly perceived clinical drawback of shorter therapy (weaker outcomes) might be invalid, while the potential economic and quality of life benefits of offering fewer sessions (less time per patient spent on treatment; greater access to treatment for more patients) could be substantial. There is clearly a strong case for investigating the potential of briefer versions of CBT and other therapies, given these findings and those of Bell et al. (2017).
Certainly, the case for longer therapies is weakened by such research, and any clinical case for extension of treatment should be considered in supervision and monitored in practice (e.g., Schibbye et al., 2015). Finally, clinicians should be encouraged to use frequent measures of progress, focusing on weekly changes in behaviors and attitudes (e.g., Tatham, Turner, Mountford, Tritt, Dyas & Waller, 2015). Detailed monitoring of this sort should be used to identify and drive early change, to indicate when change is slowing, and to measure whether any extension of therapy is justified.

**Authors’ declaration of interest**

The authors have no interests to declare.
References


Psychiatry, 166, 311-319.


Table 1
Outcome of treatment for eating disorders in terms of body mass index, eating pathology (EDE-Q Global score), bulimic behaviours (per month) and depression (PHQ-9), using multiple imputations to replace missing data ($N = 47$).

<table>
<thead>
<tr>
<th></th>
<th>Start of treatment</th>
<th>End of treatment</th>
<th>Paired t-test</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mean (SD)</td>
<td>Mean (SD)</td>
<td>$t$ $P$ $d$</td>
</tr>
<tr>
<td>Body mass index</td>
<td>22.5 (3.98)</td>
<td>22.5 (3.70)</td>
<td>0.37 NS -</td>
</tr>
<tr>
<td>EDE-Q total</td>
<td>3.89 (4.04)</td>
<td>2.33 (3.98)</td>
<td>5.88 .001 0.52</td>
</tr>
<tr>
<td>Objective binges (month)</td>
<td>8.55 (10.6)</td>
<td>4.31 (8.78)</td>
<td>2.21 .03 0.33</td>
</tr>
<tr>
<td>Vomiting (month)</td>
<td>6.47 (9.18)</td>
<td>2.55 (7.88)</td>
<td>3.48 .001 0.56</td>
</tr>
<tr>
<td>Laxatives (month)</td>
<td>0.41 (1.71)</td>
<td>0.47 (1.72)</td>
<td>0.21 NS -</td>
</tr>
<tr>
<td>PHQ-9 depression</td>
<td>13.5 (5.48)</td>
<td>7.42 (6.38)</td>
<td>7.73 .001 1.22</td>
</tr>
</tbody>
</table>
Table 2

Partial correlations, testing the association between pre-treatment scores and end of treatment scores on measures of eating pathology (EDE-Q Global), depression (PHQ-9) and treatment duration, controlling for initial scores on the EDE-Q. Multiple imputation scores were used for the correlations with initial scores ($N = 47$), while completer analysis was used for associations with duration of treatment ($N = 32$). No associations were significant.

<table>
<thead>
<tr>
<th>End of treatment scores $^8$</th>
<th>EDE-Q Global</th>
<th>PHQ-9 $^9$</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Initial scores</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BMI</td>
<td>.172</td>
<td>.185 $^{11}$</td>
</tr>
<tr>
<td>Age</td>
<td>.156</td>
<td>-.220 $^{12}$</td>
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<tr>
<td>Duration of eating disorder</td>
<td>.203</td>
<td>-.081</td>
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<tr>
<td>PHQ-9</td>
<td>.323</td>
<td>-</td>
</tr>
<tr>
<td><strong>Duration of therapy</strong></td>
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<td></td>
</tr>
<tr>
<td>Number of sessions</td>
<td>-.002</td>
<td>-.302</td>
</tr>
<tr>
<td>Weeks in treatment</td>
<td>-.068</td>
<td>-.056</td>
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</table>

$^8$ $^9$ $^{10}$ $^{11}$ $^{12}$