Restoring Study 329: A randomised, controlled trial of the efficacy and harms of paroxetine and imipramine in the treatment of adolescent major depression

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Restoring Study 329: Efficacy and harms of paroxetine and imipramine in the treatment of adolescent major depression: restoration of a randomised controlled trial

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Jon Jureidini affirms that the manuscript is an honest, accurate, and transparent account of the study being reported; that no important aspects of the study have been omitted; and that any discrepancies from the study as planned (and, if relevant, registered) have been explained.

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Competing interests

Dr. Healy has been and is an expert witness for plaintiffs in legal cases involving GlaxoSmithKline's drug paroxetine. He is also a witness for plaintiffs in actions involving other antidepressants with the same mechanism of action as paroxetine.

Dr Jureidini has been paid by Baum, Hedlund, Aristei & Goldman, Los Angeles, California to provide expert analysis and opinion about documents obtained from GlaxoSmithKline in a class action over study 329, and from Forest in relation to paediatric citalopram randomised controlled trials.

Drs Le Noury, Nardo, Raven, Tufanaru and Abi-Jaoude have nothing to declare.

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Restoring Study 329: Efficacy and harms of paroxetine and imipramine in the treatment of adolescent major depression: restoration of a randomised controlled trial

Abstract

Objectives: This is a reanalysis of SmithKline Beecham's Study 329 (published by Keller et al. in 2001), the primary objective of which was to compare the efficacy and safety of paroxetine and imipramine to placebo in the treatment of adolescents with unipolar major depression. The objective of this restoration under the Restoring Invisible and Abandoned Trials (RIAT) initiative was to see whether access to and reanalysis of a full dataset from a randomised controlled trial would have clinically relevant implications for evidence based medicine.

Design: Double-blind randomised placebo-controlled trial.

Setting: 12 North American academic psychiatry centres, from 20 April 1994 to 15 February 1998.

Participants: 275 adolescents with major depression of at least 8 weeks in duration. Exclusion criteria included a range of comorbid psychiatric and medical disorders and suicidality.

Interventions: Participants were randomised to 8 weeks double-blind treatment with paroxetine (20–40 mg), imipramine (200–300 mg), or placebo.

Main outcome measures: The pre-specified primary efficacy variables were: change from baseline to the end of the 8-week acute treatment phase in total Hamilton Depression Scale (HAM-D) score; and the proportion of responders (HAM-D score ≤8 or ≥50% reduction in baseline HAM-D) at acute endpoint. Pre-specified secondary outcomes were (1) changes from baseline to endpoint in the following parameters: depression items in K-SADS-L; Clinical Global Impression; Autonomous Functioning Checklist; Self-Perception Profile; Sickness Impact Scale, (2) predictors of response, (3) number of patients who relapse during the maintenance phase. Adverse experiences were to be compared primarily by using descriptive statistics. No coding dictionary was pre-specified.

Results: The efficacy of paroxetine and imipramine was not statistically or clinically significantly different from placebo for any pre-specified primary or secondary efficacy outcome. HAM-D scores decreased by 10.73 [9.134 to 12.328], 8.95 [7.356, to 10.541] and 9.08 [7.450 to 10.708] points, least-squares mean [95%Confidence Interval], respectively, for the paroxetine, imipramine and placebo groups (p = 0.204). Clinically significant increases in harms were observed, including suicidal ideation and behaviour and other serious adverse events in the paroxetine group and cardiovascular problems in the imipramine group.

Conclusions: Neither paroxetine nor high-dose imipramine demonstrated efficacy for major depression in adolescents, and there was an increase in harms with both drugs. Access to primary data from trials has important implications for both clinical practice and research, including that published conclusions about efficacy and safety should not be read as

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Trial registration: Registration number and name of trial register: SmithKline Beecham study 29060/329.

Funding of Study 329: SmithKline Beecham/GlaxoSmithKline. No funding was obtained to support this restoration.

Supplementary material / data can be found at [URL TBA]

Restoring Study 329: Efficacy and harms of paroxetine and imipramine in the treatment of adolescent major depression: restoration of a randomised controlled trial.

Background

In 2013, in the face of the selective reporting of outcomes of randomised controlled trials, an international group of researchers called on funders and investigators of abandoned (unpublished) or misreported trials to publish undisclosed outcomes or correct misleading publications.[1] This initiative was dubbed 'restoring invisible and abandoned trials' (RIAT). The researchers identified many trials requiring restoration, and emailed the funders, asking them to signal their intention to publish the unpublished trials or publish corrected versions of misreported trials. Should funders and investigators fail to undertake to correct a trial that had been identified as unpublished or misreported, independent groups were encouraged to publish an accurate representation of the clinical trial based on the relevant regulatory information.

The current article represents a RIAT publication of Study 329. The original study was funded by SmithKline Beecham (SKB; subsequently GlaxoSmithKline, GSK) and led by Dr Martin Keller. We acknowledge the work of the original investigators. This double-blinded randomised controlled trial to evaluate the efficacy and safety of paroxetine, imipramine and placebo for adolescents diagnosed with major depression was reported in the *Journal of the American Academy of Child and Adolescent Psychiatry* in 2001 (hereafter 'Keller et al.'). [2] The RIAT researchers named Study 329 as an example of a misreported trial in need of restoration. Keller et al., which was largely ghostwritten, [3] claimed efficacy and safety for paroxetine at odds with the data.[4] This is problematic because the article has been influential in the literature supporting the use of antidepressants in adolescents.[5]

On 14 June 2013, the RIAT researchers asked GSK whether it had any intention to restore any of the trials it sponsored, including Study 329. GSK did not signal any intent to publish a corrected version of any of its trials. In later correspondence, GSK stated that Keller et al. 'accurately reflects the honestly-held views of the clinical investigator authors' and that it did 'not agree that the article is false, fraudulent or misleading'.[6]

Study 329 was a multicenter eight-week double-blind randomised controlled trial (acute phase), followed by a six-month continuation phase. SKB's stated primary objective was to compare the efficacy and safety of imipramine and paroxetine to placebo in the treatment of adolescents with unipolar major depression. Secondary objectives were to identify predictors of treatment outcomes across clinical subtypes; to provide information on the safety profile of paroxetine and imipramine when these agents were given for 'an extended period of time'; and to estimate the rate of relapse among imipramine, paroxetine and placebo responders who were maintained on treatment. Study enrolment took place between April 1994 and March 1997.

The first RIAT trial publication was a surgery trial that had only been partly published before.[7] Very few previously published randomised controlled trials have been reported in published papers by different teams of authors.[8]

Methods

We have reanalysed Study 329 according to the RIAT recommendations. To this end, we have used the Clinical Study Report (CSR; SKB's 'Final Clinical Report'), including Appendices A-G, publically available on the GSK website,[9] other publically available documents,[10] and the individual participant level data access Solutions OnDemand,[11] on which GSK subsequently also posted some Study 329 documents (available only to users approved by GSK). Following negotiation,[12] GSK posted approximately 77,000 pages of de-identified individual Case Report Forms (CRFs, Appendix H) on that website. A table of sources of data consulted in preparing each part of this paper is available as RIAT Appendix 1, RIAT Audit Record (RIATAR).

Except where indicated, in accordance with RIAT recommendations, our methods are those set out in the 1994/1996 Study 329 protocol,[13] as outlined in RIAT Appendix 1. In cases where the methodology used and published by Keller et al. diverged from the protocol, we followed the protocol. Because the protocol-specified method of correction for missing values, Last Observation Carried Forward (LOCF), has been questioned in the intervening years, we also included a more modern method, Multiple Imputation (MI), at the request of the reviewers. This is a post hoc method added for comparison only, not part of our formal reanalysis. Where the protocol was not specific, we chose by consensus standard methods that best presented the data. The original 1993 protocol had minor amendments in 1994 and 1996 (replacement of the K-SADS-P with the K-SADS-L and reduction in required sample size). Furthermore, the Clinical Study Report reported some procedures that varied from those specified in the protocol, and we have noted variations that we considered significant.

Participants

275 adolescents between the ages of 12 and 18 years, meeting *DSM-IV* criteria[14] for a current episode of major depression of at least 8 weeks duration, were recruited for the study (the protocol specified *DSM-III-R* criteria, which are very similar). Table 1 lists the eligibility criteria.

Inclusion Criteria	Exclusion Criteria
Adolescents between ages of 12 and 18, meeting DSM-III-R criteria for major depression for at least 8 weeks; Child Global Assessment Scale severity score < 60; Hamilton Depression Scale (17-item) score ≥ 12; Medically healthy; IQ ≥ 80 (based on Peabody Picture Vocabulary Test).	Current or past <i>DSM-III-R</i> diagnosis of: bipolar disorder, schizoaffective disorder, anorexia nervosa, bulimia, alcohol or drug abuse/dependence, obsessive-compulsive disorder, autism/pervasive mental disorder, or organic psychiatric disorder; Current (within 12 months) <i>DSM-III-R</i> diagnosis of post-traumatic stress disorder; Adequate antidepressant trial within 6-months; Suicidal ideation with a definite plan, suicide attempt during current depressive episode, or history of suicide attempt by medication overdose;
	Medical illness which contraindicates the use of

Table 1. Study eligibility criteria.

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	heterocyclic antidepressants;
	Current use of psychotropic medications (including anxiolytics, antipsychotics, mood stabilizers), or illicit drugs;
C	Organic brain disease, epilepsy or mental retardation;
	Patients who are pregnant or lactating;
	Sexually active females not using reliable contraception;
	Use of an investigational drug within 30 days or within five half-lives of the investigation drug.

An undisclosed number of patients identified by telephone screening as potential participants were subsequently evaluated at the study site by a senior clinician (psychiatrist or psychologist). Multiple meetings and teleconferences were held by the sponsoring company with site study investigators to ensure standardization across sites. Patients and parents were interviewed separately using the Schedule for Affective Disorders and Schizophrenia for Adolescents - Lifetime Version (K-SADS-L). Following this initial assessment, the study informed consent form was signed by both patient and parent; there is no mention of a separate assent form in the protocol or in the Clinical Study Report. A 7 to 10 day screening period was used to obtain past clinical records and to document that the depressive symptoms were stable. At the end of the screening period, only patients continuing to meet the inclusion criteria (DSM-III-R major depression and the HAM-D total score of 12 or greater) were randomised. There was no placebo lead-in phase.

The number of study sites was originally 6 but was increased to 12 (10 in the United States and 2 in Canada). The centres were affiliated with either a university or a hospital psychiatry department and had experience with adolescent patients. The investigators were selected for their interest in the study and their ability to recruit study patients.

The recruitment period ran from 20 April 1994 until 15 March 1997, and the acute phase was completed on 7 May 1997. In a small number of patients, 30-day follow-up data in cases that went into the continuation phase were collected into February 1998.

Patient involvement

So far as we can ascertain, there was no patient involvement in SKB's study design.

Interventions

Study medication was provided to patients in weekly blister packs. Patients were instructed to take the medication twice daily. There were 6 dosing levels. Over the first four weeks, all patients were titrated to level 4, corresponding to paroxetine 20 mg or imipramine 200 mg, regardless of response. Non-responders (those failing to reach responder criteria) could be titrated up to level 5 or 6 over the following four weeks. This corresponds to a maximum dose of paroxetine 60 mg and a maximum dose of imipramine of 300 mg.

Medication compliance was evaluated based on the number of capsules dispensed, taken, and returned. Non-compliance was defined as taking less than 80% or greater than 120% of the number of capsules expected to be returned at two consecutive visits, and resulted in withdrawal. Any patient missing two consecutive visits was also withdrawn from the study.

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Patients were provided with 45-minute weekly sessions of supportive psychotherapy,[15] primarily for the purpose of assessing the treatment effects.

Sample Size

The acute phase of the trial was initially based on a power analysis that indicated that a sample size of 100 patients per treatment group was required in order to have a statistical power of 80% for a two-tailed alpha level of 0.05 and an effect size of 0.40. This effect size entailed a difference of 4 in the HAM-D Total change from baseline scores at endpoint, specified in the protocol to be large enough to be clinically meaningful, considering a standard deviation of 10. No allowance was made in the power calculation for attrition (anticipated dropout rate) or non-compliance during the study.

Recruitment was slower than expected, and reportedly medication supplies (mainly placebo) ran short due to expiry. A midcourse evaluation of 189 patients was carried out, without breaking the blind, revealing less variability in HAM-D scores (Standard Deviation 8) than anticipated. Therefore the recruitment target was reduced to 275 on the grounds that it would have no negative impact on the estimated 80% power required to detect a four-point difference between placebo and active drug groups.

Randomisation

A computer-generated randomisation list of 360 numbers for the acute phase was generated and held by SKB. According to the Clinical Study Report, treatments were balanced in blocks of 6 consecutive patients; however, there is an inconsistency in that in Clinical Study Report Appendix A Randomisation Code details block sizes of both 6 and 8. Each investigator was allocated a block of consecutively numbered treatment packs, and patients were assigned treatment numbers in strict sequential order. Patients were randomised in a 1:1:1 ratio to treatment to paroxetine, imipramine, or placebo.

Blinding

Paroxetine was supplied as film-coated, capsule-shaped yellow (10 mg) and pink (20 mg) tablets. Imipramine (50 mg) was bought commercially and supplied as green film-coated round 50mg tablets. 'Paroxetine placebos' matched the paroxetine 20 mg tablets, and 'imipramine placebos' matched the imipramine tablets. All tablets were over-encapsulated in bluish-green capsules to preserve blinding.

The blind was to be broken only in the event of a serious Adverse Event that the investigator felt could not be adequately treated without knowing the identity of the study medication. The

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identity of the study medication was not otherwise disclosed to the investigator or SKB staff associated with the study.

Outcomes

Patients were evaluated weekly during the 8 week duration of the acute treatment phase.

1. Efficacy Endpoints Primary Efficacy Variables

The pre-specified primary efficacy variables were: change in total Hamilton Depression Scale (HAM-D)[16] score from the beginning of the treatment phase to the endpoint of the acute phase; and the proportion of *responders* at the end of the eight week acute treatment phase (longer than many antidepressant trials). *Responders* were defined as patients who had a 50% or greater reduction in the HAM-D or a HAM-D score equal to or less than 8. (Scores on the HAM-D can vary from 0 to 52.)

Secondary Efficacy Variables

The pre-specified secondary efficacy variables were:

a) Changes from baseline to endpoint in the following parameters:

- Depression items in K-SADS-L
- Clinical Global Impression (CGI)
- Autonomous Functioning Checklist[17] (listed in the protocol as Autonomic Function Checklist)
- Self-Perception Profile
- Sickness Impact Scale.

b) Predictors of response (endogenous subtypes, age, prior episodes, duration and severity of present episode, comorbidity with separate anxiety, attention deficit, and conduct disorder).c) The number of patients who relapse during the maintenance phase (referred to in the Clinical Study Report and in this paper as 'continuation phase').

However, both before and after breaking the blind, changes were made by the sponsors to the secondary outcomes as previously detailed.[4] We could not find any document that provided any scientific rationale for these post-hoc changes,[18] and the outcomes are therefore not reported in this paper.

Box 1: Challenges in carrying out RIAT

This is the first RIAT effort by an external team of authors, to our knowledge, so there are no clear precedents or guides. **Challenges** we have encountered include:

Potential or perceived bias

A RIAT report is not intended to be a critique of a previous publication. The point is rather to produce a thorough independent analysis of a trial that has remained unpublished or called into question. We acknowledge, however, that any RIAT team may be seen as having an intrinsic bias, in that questioning the earlier published conclusions is what brought some members of

the team together. Consequently, we took all appropriate procedural steps to avoid such putative bias. In addition, we have made the data available for others to analyse.

Correction for testing multiple variables

We had multiple sources of information: The protocol; the published paper; the documents posted on the GSK web site including the Clinical Study Report and Individual Patient Data; and the raw primary data in the Case Report Forms provided by GSK on a remote desk-top for this project. The protocol declared two primary and six secondary variables for the three treatment groups in two differing datasets (observed case and last observation carried forward). The Clinical Study Report contained statistical comparisons on 28 discrete variables using two comparisons [paroxetine vs placebo and imipramine vs placebo] in the two datasets [OC and last observation carried forward]. The published paper listed eight variables with two statistical comparisons each in one dataset [last observation carried forward]. But the original authors nowhere addressed the need for corrections for multiple variables – a standard requirement when there are multiple outcome measures. In the final analysis, there were no statistically or clinically significant findings, so corrections were not needed for this analysis.

Statistical testing

The protocol called for ANOVA testing [generalized linear model] for continuous variables using a model that included the effects of SITE, TREATMENT, and SITE x TREATMENT interaction, with the latter dropped if p≥0.10. Logistical regression [chi Square 2x3] was prescribed for categorical variables under the same model. Both methods begin with an omnibus statistic for the overall significance of the dataset, then progress to pairwise testing if and only if the omnibus statistic meets alpha [0.05]. Yet all statistical outcomes in the Clinical Study Report and published paper were reported only as the pairwise values for only two of the three possible comparisons [paroxetine vs placebo and imipramine vs placebo] with no mention of the omnibus statistic. Therefore, we conducted the needed omnibus analyses, which are negative as shown. The pairwise values are available in the online RIAT Appendix 2 (table i).

Missing values

The protocol called for evaluation of the observed case and last observation carried forward datasets, with the latter being definitive. The last observation carried forward method for correcting missing values was the standard at the time the study was conducted. It continues to be widely used, although newer models such as Multiple Imputation or Mixed Models are superior. We had chosen to strictly adhere to the protocol and use the last observation carried forward method rather than introduce a post hoc analytic tool. Our reviewers, however, encouraged us to also report a Multiple Imputation analysis.

Non-protocol specified outcome variables

There were four outcome variables in the Clinical Study Report and in the published paper that were not specified in the protocol. These were the only outcome measures reported as significant. They were in no version of the protocol as amendments nor were they submitted to the Institutional Review Board. The Clinical Study Report (section 3.9.1) states they were part of an 'analysis plan' developed some two months before the blind was broken. No such plan appears in the Clinical Study Report and we have no contemporaneous documentation of that claim, despite having repeatedly requested it from GSK.

Conclusions

We decided that the best and most unbiased course of action was to analyse the efficacy data in the IPD based on the last guaranteed *a priori* version of SKB's own protocol [1994, amended in 1996 to accept a reduced sample size]. Although the protocol omitted a discussion of corrections which we would have thought necessary, correction for multiple variables is designed to prevent false positives and there were no positives. We agreed with the statistical mandates of the protocol, but while we saw pairwise comparisons in the absence of overall significance as inappropriate, we recognize that this is not a universal opinion, so we included them in the online RIAT Appendix 2, table i.

Finally, although investigators can explore the data however they wish, additional outcome variables outside those in the protocol cannot be legitimately declared once the study is underway, except as 'exploratory variables' - appropriate for the discussion or as material for further study, but not for the main analysis. The *a priori* protocol and blinding are the bedrock of a randomised controlled trial - guaranteeing that there is not even the possibility of the HARK phenomenon ['hypothesis after results known']. While we can readily demonstrate that none of the reportedly 'positive' four non-protocol outcome variables stands up to scrutiny, the primary mandate of the RIAT enterprise is to reaffirm essential practices in randomised controlled trials, so we did not include these variables in our efficacy analysis.

2. Harm Endpoints

An adverse experience/event was defined in the protocol (p. 18) as:

'any noxious, pathologic or unintended change in anatomical, physiologic or metabolic functions as indicated by physical signs, symptoms and/or laboratory changes occurring in any phase of the clinical trial whether associated with drug or placebo and whether or not considered drug related.

This includes an exacerbation of pre-existing conditions or events, intercurrent illnesses, drug interaction or the significant worsening of the disease under investigation that is not recorded elsewhere in the case report form under specific efficacy assessments.'

Adverse Events were to be elicited by the investigator asking a non-leading question such as: 'Do you feel different in any way since starting the new treatment/the last assessment?'. Details of treatment emergent Adverse Events, their severity, including any change in study drug administration, investigator attribution to study drug, any corrective therapy given, and outcome status were documented. Attribution or relationship to study drug was judged by the investigator to be 'unrelated', 'probably unrelated', 'possibly related', 'probably related' or 'related'.

Vital signs and ECGs were obtained at weekly visits. Patients with potentially concerning cardiovascular measures either had their medication dose reduced or were withdrawn from the study. In addition, if the combined serum levels (obtained at weeks 4 and 8) of imipramine and desipramine exceeded 500 mcg/ml, the patient was to be withdrawn from the study.

Clinical laboratory tests, including clinical chemistry, hematology and urinalysis were carried out at the screening visit and at the end of week 8. Clinically significant laboratory abnormalities were to be included as adverse events.

Source of harms data

The harms data in this paper cover the acute phase, a taper period and an up to 30-day followup phase for those who discontinued because of adverse events. To ensure comparability with Keller et al, none of the tables contains data from the continuation phase.

Adverse Event data come from the Clinical Study Report lodged on GSK's website, [19] primarily Appendix D. Appendix B provides details of concomitant medications. Additional information was available from the summary narratives in the body of the Clinical Study Report for patients who had Adverse Events that were designated as serious or led to withdrawal. (Of the eleven paroxetine patients with Adverse Events designated as serious, nine discontinued because of Adverse Events.) However, the large number of other patients discontinued because of Adverse Events that were not regarded as serious, or discontinued for lack of efficacy or protocol violations (see Figure 1), did not generate patient narratives. The tables in Appendix D of the Clinical Study Report report the Verbatim Terms used by the blinded investigators along with Preferred Terms as coded by SKB using the Adverse Drug Events Coding System (ADECS) dictionary. Appendix D also includes ratings of severity and ratings of relatedness. We used the Medical Dictionary for Regulatory Activities (MedDRA®) to code the verbatim terms provided in Clinical Study Report Appendix D. MedDRA terminology is the international medical terminology developed under the auspices of the International Conference on Harmonisation of Technical Requirements for Registration of Pharmaceuticals for Human Use (ICH) www.meddra.org), endorsed by the FDA and now used by GSK.¹

Several limitations of the ADECS coded preferred terms provided in Clinical Study Report Appendix D became clear when we examined the ADECS preferred terms assigned to the verbatim terms: First, a number of verbatim terms had been left uncoded into ADECS. Second, a number of adverse events found in the patient narratives of serious Adverse Events that led to discontinuation from the trial were not transcribed into Appendix D (See RIAT Appendix 3 for the coding challenges of Patient 039).

Therefore we approached GSK for access to Case Report Forms (Appendix H of the Clinical Study Report, which are not publically available). GSK made available all 275 Case Report Forms for patients entered into Study 329. However, the Case Report Forms, which totalled approximately 77,000 pages, were only available through a remote desktop facility (SAS Solutions OnDemand Secure Portal),[10] which made it difficult and extremely time-consuming to inspect the records properly.[20] Effectively only one person could undertake the task, with backup for ambiguous

¹ Winter C. MedDRA in clinical trials – industry perspective SFDA-ICH MedDRA Workshop, Beijing, 13-14 May 2011. <u>https://www.meddra.org/sites/default/files/page/documents_insert/christina_winter_2_meddra_in_clinical_trials_industry_perspective_.pdf</u>

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cases. Accordingly we could not examine all Case Report Forms. Instead we decided to focus on those 85 participants identified in Clinical Study Report Appendix H who were withdrawn from the study, along with 8 further participants who were known from prior inspection of the Clinical Study Reports to have become suicidal. 31 of the Case Report Forms that were checked were from the paroxetine group, 40 from the imipramine group and 22 from placebo.

All Case Report Forms were reviewed by JLN, who is trained in the use of MedDRA. The second reviewer (JN), a clinician, is untrained in the MedDRA system, but training is not necessary for drop-out coding. There was agreement between these two reviewers about reasons for discontinuation and side effect coding (no quantitative indicator of inter-rater agreement was used).

These 93 Case Report Forms were scrutinised for all AEs occurring during the acute, taper and follow-up phases, and total Adverse Events were compared with the Adverse Event totals reported in Clinical Study Report Appendix D.

This review process identified additional Adverse Events that had not been recorded as verbatim terms in Clinical Study Report Appendix D. It also led to recoding of a number of the reasons for discontinuation. The new Adverse Events and the reasons for changing discontinuation category are recorded in Tables ii, iii and ix in RIAT Appendix 2 accompanying this paper.

At least 1000 pages were missing from the Case Report Forms reviewed with no discernible pattern to missing information; for example, one Case Report Form came with a page inserted stating that pages 114 to 223 were missing, without indicating reasons.

Coding of Adverse Events

Choice of coding dictionary for harms

The protocol (p.25) indicates that adverse events were to be coded and compared by preferred term and body system using descriptive statistics, but does not pre-specify a choice of coding dictionary for generating preferred terms from verbatim terms. The Clinical Study Report (written after the study concluded) specifies that the Adverse Events noted by clinical investigators in this trial were coded using the Adverse Drug Experience Coding System (ADECS) that was being used by SKB at the time. ADECS was derived from a coding system developed by the United States Food and Drug Administration (FDA), Coding Symbols for a Thesaurus of Adverse Reaction Terms (COSTART), but ADECS is not itself a recognized system.

We coded Adverse Events using MedDRA, which has replaced COSTART for the FDA, because it is by far the most commonly used coding system today. For coding purposes, we have taken the original terms used by the clinical investigators as transcribed into the Clinical Study Report Appendix D, and applied MedDRA codes to these descriptions. Information from Appendix D was transcribed into spreadsheets (available at <u>www.TBA</u>). The verbatim terms and the ADECS coding terms were transcribed first into these sheets, allowing all coding to be done before the drug names were added in. The transcription was carried out by a research assistant who was a

MedDRA trained coder, but took no part in the actual coding. All coding was carried out by JLN, and checked by DH, or vice versa.

All of our coding from the verbatim terms in the Clinical Study Report Appendix D was done blind, as was coding from the Case Report Forms.

We present results as SKB presented them in the Clinical Study Report using the ADECS dictionary (table 14.2.1), and as coded by us using MedDRA.

In general, MedDRA coding stays closer to the original clinician description of the event than ADECS does. For instance, MedDRA codes 'sore throat' as 'sore throat', but SKB, using ADECS, coded it as 'pharyngitis' (inflammation of the throat). Sore throats may arise because of pharyngitis, but when someone is taking SSRIs they may indicate a dystonic reaction in the oro-pharyngeal area.[21]

Classifying a problem as a 'respiratory system disorder' (inflammation) rather than as a 'dystonia' (a central nervous system disorder) can make a significant difference to the apparent Adverse Event profile of a drug. In staying closer to the original description of events, MedDRA codes suicidal events as 'suicidal ideation' or 'self-harm/attempted suicide' rather than the ADECS option of 'emotional lability'; similarly, aggression is more clearly flagged as 'aggressive events' rather than 'hostility'.

Most coding was straightforward. The vast majority of the verbatim terms simply mapped onto coding terms in MedDRA. Coding challenges most often related to cases where there were significant Adverse Events, but the patients were designated by SKB to have discontinued for lack of efficacy. There was no patient narrative for such patients, in contrast to patients deemed to have discontinued because of the Adverse Event occurring at discontinuation. There were few challenging coding decisions. By far the most difficult case is described in RIAT Appendix 3.

Analysis of harms data

In analysing the harms data for the safety population, we have explored the discrepancies in the number of events between Case Report Forms and the Clinical Study Report. We present all Adverse Events rather than only those happening at a particular rate (as Keller et al. did). The MedDRA system groups events into broader system-organ-class (SOC) groups – psychiatric, cardiovascular, gastrointestinal, respiratory and other; Table iv in RIAT Appendix 2 summarises adverse events by SOC. We break down events by severity, selecting Adverse Events coded as severe, and utilising the listing in Clinical Study Report Appendix G of patients who discontinued for any reason. We include an analysis of the effects of prior treatment, presenting the run-in phase profiles of medication taken by patients entering each of the three arms of the study, and comparing the list of Adverse Events experienced by patients on concomitant medication (from Appendix B) versus those not on other medication. In addition, we extract the events occurring during the taper and follow-up phase.

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We have not undertaken statistical tests of harms data, as discussed below.

3. Patient withdrawal

A study patient could withdraw or be withdrawn prematurely for any of the following six reasons: 'Adverse experiences including intercurrent illness'; 'Insufficient therapeutic effect'; 'Deviation from protocol including non-compliance'; 'Loss to follow-up'; 'Termination by SB [SKB]'; 'Other (specify)'.

The Clinical Study Report states that the primary reason for withdrawal was determined by the investigator. We have reviewed the codes given for discontinuation from the study, which are found in Clinical Study Report Appendix G, and made changes in a proportion of cases.

Statistical Methods

The primary population of interest was the intent-to-treat population that included all patients who received at least one dose of study medication and had at least one post-baseline efficacy assessment. The demographic characteristics, description of the baseline depressive episode, additional psychiatric diagnoses, and personal history variables of the patients were summarized descriptively by treatment group.

The acute phase eight-week endpoint was of primary interest. Statistical conclusions concerning the efficacy of paroxetine and imipramine were made using data obtained from the last observation carried forward (i.e. the last on-therapy assessment during the acute phase) and observed case datasets. Paroxetine and imipramine were each to be compared with placebo; there was to be no comparison of paroxetine with imipramine.

We followed the methodology of the a priori 1994 study protocol (amended in 1996 to accept a reduced sample size). It did not provide explicit statistical hypotheses (null hypotheses and alternative hypotheses); nor were there justifications for the proposed statistical approaches or statistical assumptions underlying them.

One of the two primary efficacy variables, proportion of responders (response), and one secondary efficacy variable, proportion of patients relapsing, were treated as categorical variables. The second primary efficacy variable, change in total HAM-D score over the acute phase, and the remaining secondary efficacy variables were treated as continuous variables.

In accordance with the protocol, the continuous variables were analyzed using parametric analysis of variance (ANOVA) with effects in the model including treatment, investigator, and treatment by investigator interaction. Pairwise comparisons were not done if the omnibus (overall) ANOVA was not statistically significant (two-sided p<0.05), as specified by the protocol (we acknowledge differing opinions about this issue in the statistical literature [22] so we included them in the online RIAT Appendix 2 for completeness). The categorical variable was analyzed using logistic regression, with the same effects included. In either case, if the treatment by investigator interaction resulted in a two-sided p value >0.10, the interaction term was dropped from the model. Statistical testing was done using the Linear Model (LM) and

General Linear Models (GLM) procedures of the R statistical package (version 2.15.2) as provided by GSK. Imputation was performed using the Multiple Imputation by Chained Equations (MICE) package also in R. [23]

For the relapse rate analyses, we included all responders (HAM-D \leq 8 or \geq 50% reduction in symptoms) meeting the original criteria for entry to the continuation phase of the study. Patients were considered to have relapsed if they no longer met the responder criteria (HAM-D \leq 8 or \geq 50% reduction in symptoms) or if they were withdrawn for 'Intentional Overdose'.

Results

The demographics of the groups are shown in Table 2, along with depression parameters, comorbidities, and baseline scores for the efficacy variables.

	Paroxetine n = 93	Imipramine n = 95	Placebo n = 87
Age (yr) [SD]	14.8 [1.6]	14.9 [1.6]	15.1 [1.6]
Sex M/F	35/58	39/56	30/57
Race %			
Caucasian	77 (83%)	83 (87%)	70 (81%)
African American	5 (5%)	3 (3%)	6 (7%)
Asian American	1 (1%)	2 (2%)	2 (2%)
Other	10 (11%)	7 (7%)	9 (10%)
Depression			
Episode duration (mo) [SD]	14 [18]	13 [17]	13 [17]
Age first episode (yr) [SD]	13.1 [2.8]	13.7 [2.7]	13.5 [2.3]
Prior episodes 0	0 (0%)	2 (2%)	0 (0%)
1	75 (81%)	75 (79%)	68 (77%)
2	11 (12%)	13 (14%)	12 (14%)
>3	7 (7%)	5 (6%)	7 (8%)
Comorbidity			
Any comorbid disorder	42 (41%)	47 (50%)	39 (41%)
Current Anxiety disorder	24 (19%)	24 (26%)	24 (19%)
ODD, CD, or ADHD	23 (25%)	24 (26%)	17 (20%)
Baseline Scores LSM [SEM]			
HAM-D	18.9 [0.44]	18.1 [0.43]	19.0 [0.44]
K-SADS-L	28.3 [9.5]	27.5 [0.51]	28.3 [0.52]
Autonomous Function	93.4 [3.1]	97.0 [3.1]	94.2 [3.2]
Self Perception Profile	64.0 [2.2]	63.5 [2.2]	63.4 [2.3]
Sickness Impact Profile	32.4 [1.2]	30.8 [1.2]	32.9 [1.3]

Table 2. Baseline characteristics

§ from the Screening K-SADS-L Structured Interview

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Figure 1 summarises the allocations and discontinuations among the three treatment groups during the acute study period.

Insert Figure 1 here.

[legend] Allocations and discontinuations

The flow chart covers the intent-to-treat population for the acute phase and the efficacy analysis. The paroxetine group was titrated to a dose of 20mg/day by week 4, with 55% (51/93) moving to a higher dose (mean 28.0 mg/day, Standard Deviation 8.4 mg) by week 8. The imipramine group was titrated to 200 mg/day by week 4, with 40% (38/95) going higher (mean 205.8 mg/day, Standard Deviation 63.9 mg) by week 8. 28 patients reached the highest permissible dose of 40 mg of paroxetine, and 20 patients were titrated to the maximum 300 mg of imipramine.

Efficacy

There were no discrepancies between any of our analyses and those contained in the Clinical Study Report. Figure 2 illustrates the longitudinal values for the two primary efficacy variables: mean change from baseline in the HAM-D score; and the percent responding, defined as a decrease in HAM-D score by 50% or more from baseline or a final HAM-D score of 8 or below. The difference between paroxetine and placebo fell short of the pre-specified level of clinical significance (4 points) and neither primary outcome achieved statistical significance at any measured interval for any dataset during the acute phase.

Insert Figure 2 here.

[legend] Primary outcome measures

The formal reanalysis included both observed case and last observation carried forward datasets. As mentioned above, the Multiple Imputation dataset is included for comparison. There was no statistical significance (considered at p<0.05) or clinical significance demonstrated for any of the pre-specified primary or secondary efficacy variables in either the observed case or last observation carried forward datasets, so pairwise analysis was considered unjustified. The results at week 8 are shown in Table 3. HAM-D scores decreased by 10.7 [9.1 to 12.3], 9.0 [7.4 to 10.5] and 9.1 [7.5 to, 10.7] points (least–squares mean [95%Confidence Interval]), for the paroxetine, imipramine and placebo groups, respectively.

Table 3. Datasets for primary and secondary outcomes: Observed case, Last Observation Carried Forward, and Multiple Imputation

Insert Table 3 here

ANOVA - with Treatment and Site Effects in the model

OC-Observed Case

LOCF – Last Observation Carried Forward

MI – Multiple Imputation

Note - All p values uncorrected for multiple variable sampling

Although the protocol listed predictors of response among the secondary efficacy variables, the absence of statistically or clinically significant differences among the three arms rendered this analysis void.

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The protocol also listed the relapse rate in the continuation phase for responders as a secondary outcome variable. Our calculation differed from the Clinical Study Report calculation because we included those whose HAM-D scores rose above the 'response' range and those who intentionally overdosed. In the continuation phase, the dropout rates were too high in all groups for any precise interpretation: paroxetine 33/51 [65%]; imipramine 25/39 [64%]; and placebo 21/34 [62%]. The recorded relapses were paroxetine 25/51 [49%]; imipramine 16/39 [41%]; and placebo 12/34 [35%]. Although the relapse rate was lower in the placebo group, the results were not statistically significant, p=0.440 [Chi-square 2x3].

Harms

Review of Case Report Forms

We reviewed Case Report Forms in Appendix H for 93 (34%) of 275 patients, comprising a total of 77,000 pages. This review discovered adverse events recorded onto case report forms but not transcribed into the patient level listings of adverse events in CSR Appendix D. We present these discrepancies in Table 4.

	Paroxetine (n=31)	Imipramine* (n=40)	Placebo (n=22)
Adverse Events found in CRFs (Appendix H)**	159	257	77
Adverse Events found in Appendix D	136	240	67
% underestimate in relying only on Appendix D	14%	7%	13%

Table 4. Adverse Events found in Case Report Forms vs. Adverse Events listed in Appendix D

*In considering adverse effects from imipramine, it should be noted that doses (mean 205.8 mg) were high for adolescents. In the six comparator studies submitted by SKB as part of their 1991 Approval NDA for paroxetine in adults, the mean imipramine dose overall was 140mg, with a mean endpoint dose of 170mg.[24]

The most frequent categories of additional adverse events found in CRFs were psychiatric for paroxetine (12/23) and placebo (4/10), and cardiovascular for imipramine (5/17) – see RIAT Appendix 2, table ii.

Coding and Representation of Adverse Event Data

Table 5 presents the number of Adverse Events found in this study summarised by System-Organ-Class (SOC), firstly as coded by SKB using ADECS, secondly as reported by Keller et al (who only reported adverse events that occurred at frequency of more than 5%), and thirdly as coded by us using MedDRA. A full listing of Adverse Events can be found in table iv in RIAT Appendix 2.

Table 5. Adverse events in the Clinical Study Report (ADECS and MedDRA coded) and in Keller et al

	Paroxetine N = 93			Imipramine N = 95			Placebo N = 87		
Adverse Event	CSR ADECS coded*	Reported in Keller et al	CSR RIAT MedDRA coded	CSR ADECS Coded*	Reported in Keller et al	CSR RIAT MedDRA coded	CSR ADECS Coded*	Reported in Keller et al	CSR RIA MedDF codec
Cardiovascular	7	5	45	60	42	131	12	6	32
Gastro- intestinal/Digestive	80	84	112	108	106	147	59	61	79
Psychiatric	-	-	100	-	-	63	-	-	24
Respiratory	39	33	42	32	27	22	43	37	39
Neurological/Nervous system	106	115	100	117	135	113	42	65	77
Other	121	28	79	51	30	76	30	38	79
Body as a Whole	106	-	-	125	-	-	121	-	-
Total	338	265	478	493	340	552	277	207	330

* source = CSR, table 14.2.1. It is not clear whether this includes the taper phase.

**While in the CSR, headaches were included in 'Body as a Whole', in the Keller et al paper, the Adverse Events 'headache' along with 'dizziness' were grouped with psychiatric Adverse Events under the heading 'Nervous System'. The MedDRA dictionary requires that , dizziness is coded under 'Cardiovascular SOC' and headaches under 'Neurological SOC'. See also RIAT Appendix 2, tables iv & v.

There were no noteworthy changes in physiological data, which are detailed in the Clinical Study Report Appendix F Patient Data Listings of Laboratory Tests.

Severity Ratings

The Clinical Study Report reported serious Adverse Events (defined as events that 'resulted in hospitalization, was associated with suicidal gestures, or was described by the treating physician as serious') as 11 in the paroxetine group, five in the imipramine group, and two in the placebo

group. Designating an Adverse Event as serious hinged on the judgement of the clinical investigator. We are therefore not able to make comparable judgements of seriousness, but there are two other methods to approach the issue of severity of Adverse Events. One is to look at those rated as severe rather than moderate or mild at the time of the event (see table 6; note the high number and proportion of severe psychiatric events in the paroxetine group. In contrast, few of the many cardiovascular events in the imipramine group were rated as severe).

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		r		
Adverse Event	Paroxetine	Imipramine	Placebo	
SOC	N = 93	N = 95	N = 87	
Cardiovascular	1	4	0	
	(2%)	(3%)	(0%)	
Gastro-	25	20	4	
intestinal	(22%)	(14%)	(5%)	
Psychiatric	32	4	5	
	(32%)	(6%)	(21%)	
Respiratory	2	1	4	
	(5%)	(5%)	(10%)	
Neurological	7	13	7	
	(7%)	(12%)	(9%)	
Other	10	21	12	
	(13%)	(27%)	(15%)	
Total	70	50	25	
	(15%)	(9%)	(8%)	

Table 6. Adverse events deemed serious by investigator

Discontinuations

A second method of approaching the issue of severity of Adverse Events is to look at rates of discontinuation due to Adverse Events. Table 7 presents reasons for withdrawal during the acute phase and taper due to Adverse Events and other causes. Note that we examined all discontinuations reported in Appendix G: CRF Tabulations by Patient and compared our findings with Case Report Forms from Appendix H.

Table 7. Reasons for withdrawal during acute phase and taper

Reason for withdrawal		Paroxetine (n=93)*		Imipramine (n=95)		Placebo (n=87)	
		Appendix G	Appendix H	Appendix G	Appendix H	Appendix G	Appendix H
Adverse	Aggression	1	0	0	0	0	0
Event	Mania	1	2	0	0	0	0
	Overdose	1	1	0	0	0	0
	Depression worsening	0	1	0	0	0	1

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	Agitation	0	1	0	0	0	0
	Suicidality	0	5*	0	2	0	1
0	Hallucinations	0	0	0	1	0	0
	Conduct disorder	1	1	0	0	0	0
	Hospitalisation/surger y	1	0	1	1	0	0
	Fatigue	0	0	1	1	0	0
	Sedation	0	1	0	1	0	0
	Nausea/vomiting	0	1	2	5	0	1
	Rash/acne	0	0	2	3	1	1
	Cardiac	0	1	9	15	3	2
	Accidental injury	0	0	1	0	0	0
	Urinary	0	0	1	1	0	0
	Pregnancy	0	0	1	1	0	0
	Intercurrent illness**	6	0	12	0	2	0
	Total AE dropouts - n (%)	11 (11.8%)	14 (15.0%)	30 (31.5%)	31 (32.6%)	6 (6.9%)	6 (6.9%)
Protocol violation***	Non compliance with med	3	1	4	4	6	4
	By investigator	0	0	0	0	0	4
	Recreational drug use	0	0	1	1	1	1
	Total	3 (3.2%)	1 (1.1%)	5 (5.3%)	5 (5.3%)	7 (8.0%)	9 (10.3%
Lost to Follow	-up	5 (5.4%)	4 (4.3%)	1 (1.1%)	1 (1.1%)	1 (1.1%)	1 (1.1%)
Lack of efficad	у	3 (3.2%)	3 (3.2%)	1 (1.1%)	0 (0%)	6 (6.9%)	4 (4.6%)

Withdrawn consent	4	5	1	1	1	1
	(4.3%)	(5.4%)	(1.1%)	(1.1%)	(1.1%)	(1.1%)
Total dropout rate - n (%)	26	27	38	38	21	21
	(28%)	(29%)	(40%)	(40%)	(24%)	(24%)

*Patient **329.002.00058** was found to have stopped medications 3 days prior to attempting suicide. Originally this had been classed as a 'continuation phase' drop out, but has now been moved to '30 day discontinuation' period. Reason for withdrawal was originally 'Adverse Event including intercurrent illness' but was changed to 'suicide attempt'.

We replaced the term 'Adverse Events: Intercurrent Illness' with more specific Adverse Event terms. *Four patients enrolled in the study violated the inclusion criterion. Two had cardiovascular problems, one had a C-GAS score greater than 60, and one was 'extremely' suicidal at screening. All four were randomised to placebo. It was unclear how to categorize their reasons for discontinuation; we chose 'protocol violations'.

All changes of coding for discontinuation are laid out in our RIAT Appendix 2 (Table ix).

In a study that has a continuation phase, the assessment of Adverse Events throws up a methodological difficulty not yet addressed by groups such as CONSORT. If a study only has an acute phase, then all Adverse Events are counted for all patients on treatment as well as in any taper phase, and often for a 30-day follow-up period. When a study has a continuation phase, the taper and 30-day follow-up periods are displaced. To ensure comparable analysis of all participants, we have tallied the Adverse Events across the acute phase and both taper and follow-up phases whether displaced or not. We have not been able to ascertain what SKB did in this regard.

Taking this approach in Study 329 revealed a conundrum. In addition to the 86 dropouts from the acute phase noted by SKB, there were 65 dropouts after week 8 ratings were completed. SKB regarded these patients as participants in the continuation phase, although none of them took a continuation phase pill or had a continuation phase rating. The coding for discontinuation was particularly ambiguous for this group.

The majority of patients stopped at this point were designated by SKB as lack of efficacy (see Table 9). Investigators in four centres reported lack of efficacy as a reason for stopping six placebo patients even though the HAM-D score was in the responder range and as low as 2 or 3 points in some instances.

In some cases there were clear protocol violations or factors such as the unavailability of further medication (placebo in particular). We have recategorised the lack of efficacy dropouts based on factors such as Adverse Events and HAM-D scores.

Our analysis of reasons for withdrawal at the end of the acute phase is shown in table 8.

Table 8. Reasons for withdrawal from Study 329 – patients discontinued at the end of the Acute Phase (n=65)

1 2
3 4 5 6
7
8 9 10
11 12
13 14 15
8 9 10 11 12 13 14 15 16 17 18
19
21 22 23
24 25 26
20 21 22 23 24 25 26 27 28 29 30
31
32 33 34 35 36 37 38 39
35 36 37
38 39 40
41 42
43 44 45
46 47 48
49 50 51
52 53
54 55 56
57 58 59
60

Reason for withdrawal		Paroxe	etine group	Imipra	mine group	Placebo group (acute completers n=66		
			completers 1=67)		completers I= 56)			
C		SKB coded, App G	RIAT proposed*	SKB coded, App G	RIAT proposed*	SKB coded, App G	RIAT proposed*	
Adverse event	Aggression/paranoia	1	1	0	0	0	0	
	Mania	0	1	0	0	0	0	
	Overdose	1	0	0	0	0	0	
	Depression worsening	0	1	0	0	0	0	
	Homicidality	0	0	1	1	0	0	
	Suicidality	0	1	0	0	0	0	
	Rash	1	1	0	0	0	0	
	Cardiac	0	0	1	2	0	0	
	Dry mouth	0	0	0	1	0	0	
	TOTAL Adverse Event drop outs	3	5	2	4	0	0	
Protocol violation	Non compliance with study meds	1	1	2	2	0	0	
	Recreational drug use	0	0	0	0	1	1	
	PV by Investigator	0	1	0	2	0	3	
	TOTAL PV drop outs	1	2	2	4	1	4	
Lost to fo	llow Up	0	2	0	0	0	0	
Lack of ef	ficacy	9	5	12	8	23	17	
Withdraw	n consent	1	1	0	0	4	5	
Other	Misc (HAM-D responder)	0	1	0	1	0	6	
	General surgery	1	0	0	0	0	0	
	No study meds available	1	0	0	0	3	0	
	ADHD symptoms	0	0	1	0	0	0	

Moved out of state	0	0	0	0	1	0
TOTAL 'other' drop outs	2	1	1	1	4	6
TOTAL DISCONTINUED AT WEEK 8	16	16	17	17	32	32

*Following a review of the codes given for reasons for withdrawal from the study that were found in the Clinical Study Report (Appendix G), along with a review of patient narratives and Case Report Forms where applicable, we proposed changes to these reasons for withdrawal in a proportion of those discontinued.

Withdrawal Effects

The protocol for Study 329 called for a taper phase for all subjects and in addition a 30-day follow up period for all subjects who discontinued because of adverse events. The data in the Clinical Study Report Appendix D make it possible to identify adverse events happening in the taper and follow-up periods.

The data are presented in Table 9.

Table 9. Adverse events from taper phase

System Organ Class (MedDRA)	Paroxetine N=19		Imipr	amine	Placebo N=9		
			N=	-32			
	AEs reported (RIAT	AEs reported as severe	AEs reported (RIAT	AEs reported as severe	AEs reported (RIAT	AEs reported as severe	
	MedDRA coded)		MedDRA coded)	P	MedDRA coded)		
Cardiovascular disorders	4	0	7	0	0	0	
Gastrointestinal disorders	9	4	18	18 4		0	
Psychiatric disorders	15	7	2	0	1	1	
Respiratory & thoracic disorders	3	0	1	0	0	0	
All other SOCs	16	1	20	3	5	0	
Total Adverse Events	47	12	48	9	10	1	

SKB did not present an ADECS analysis for the taper phase in the CSR.

Effects of Other Medications

In Table 10 we present data on the effects of other medications on the AEs recorded. It is clear that those taking other medications had more Adverse Events than those who were not. This

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effect is slightly more marked in the placebo group, and as such works to the apparent benefit of the active drug treatments in minimizing any excess of Adverse Events over placebo.

Table 10. Use of other medications in the month prior to enrolment, and incidence of Adverse Events

	Paroxetir	ne (n=93)	Imiprami	ne (n=95)	Placebo (n=87)	
	Other medications	No other medications	Other medications	No other medications	Other medications	No other medications
% patients	26% (n=24)	74% (n=69)	33% (n=31)	67% (n=64)	30% (n=26)	70% (n=61)
Psychiatric Adverse Events subgroup* (acute + taper)	15	39	12	21	6	11
Total Adverse Events (acute + taper)	158	320	220	332	137	193

* Psychiatric Adverse Events included in this subgroup include: abnormal dreams, aggravated depression, agitation, akathisia, anxiety, depersonalisation, disinhibition, hallucinations, paranoia, psychosis, suicidal ideation/gesture/attempt.

Discussion

Principal findings and comparison with original journal publication

Our RIAT analysis of Study 329 revealed that neither paroxetine nor high-dose imipramine demonstrated efficacy for major depression in adolescents, and there was a clinically significant increase in harms with both drugs. This analysis contrasts with both Keller et al.'s published findings and the way that the outcomes were reported and interpreted in the Clinical Study Report.

We analysed and reported Study 329 according to the original protocol (with approved amendments) and analysed the efficacy data accordingly. RIAT Appendix 1 shows the sources of information used in preparing this paper, which should aid other researchers who wish to access the data, either to check our analysis or to interrogate it in other ways. We draw minimal conclusions regarding efficacy and harms, inviting others to offer their own analysis.

Our re-examination of the data, including a review of 34% of the cases, revealed no significant discrepancies in the primary efficacy data. The marked difference in the reporting of efficacy

outcomes was predominantly a product of our analysis keeping faith with the protocol methodology and its designation of primary and secondary outcome variables.

The authors/sponsors departed from their study protocol in the Clinical Study Report itself by performing pairwise comparisons of two of the three groups when the omnibus ANOVA showed no significance in either the continuous or dichotomous variables. They also reported four other variables as significant that had not been mentioned in the protocol or its amendments, without any acknowledgment that these measures were introduced post hoc. This contravened provision II of Appendix B Administrative Matters, according to which any changes to the study protocol were required to be filed as amendments/modifications.

With regard to Adverse Events, there were large and clinically meaningful differences between the data as analysed by us, those summarised in the Clinical Study Report using the ADECS methodology, and those reported in Keller et al. These differences arise from inadequate and incomplete entry of data from Case Report Forms to summary data sheets in the Clinical Study Report, the ADECS coding system used by SKB, and the reporting of these data sheets in Keller et al. SKB reported 338 adverse events with paroxetine, Keller et al reported 265, whereas we identified 479 from our analysis of the Clinical Study Report (and found a further 23 that had been missed from the 93 Case Report Forms that we reviewed). For all Adverse Events combined, Keller et al. reported a paroxetine burden of Adverse Events 1.25 times that of the placebo burden, compared with 1.5 times in the RIAT MedDRA coded Clinical Study Report figures.

One reason why Keller et al.'s figures are lower than ours is because Keller et al. only presented data for Adverse Events reported for 5% of patients or more. The Clinical Study Report and Case Report Form figures also differ substantially from other figures quoted in Keller et al, because Keller et al did not report a category of psychiatric Adverse Events, but instead grouped psychiatric events together with 'dizziness' and 'headache' under Nervous System. Since dizziness is more likely to be attributable to 'cardiovascular' while headaches most commonly stem from muscles and blood vessels to the scalp, we did not group them together with psychiatric Adverse Events. The effect of this change was to unmask a clinically important difference in psychiatric Adverse Event profiles between paroxetine and placebo.

There was a major difference between the frequency of suicidal thinking and events reported by Keller et al, and the frequency documented in the Clinical Study Report. Our Case Report Form review added even more cases.

 Table 11. Comparison of suicidal and self injurious behaviours using different safety

 methodologies

Keller	et al.	RIAT		
Paroxetine	Placebo	Paroxetine		Placebo

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	(N=93)	(N=87)	CSRs (N=93)	Additional events found in CRFs (N=31)	CSRs (N=87)	Additional events found in CRFs (N=22)
'emotional liability (e.g., suicidal ideation/gestures)'	5	2	-	-	-	-
Suicidal ideation (events)	-	-	4	2	1	1
Suicide attempt/self- harm (events)	2	-	8*	1	0	0
suicidal and self injurious behaviours (unique individuals)	≤5	≤2		10		2

* 7 individuals; 1 made 2 attempts

Our coding process for suicidal and self injurious behaviours is fully detailed in RIAT Appendix 3.

With regard to dropouts, Keller et al. stated that 69% of patients completed the acute phase. It would be wrong to assume that this meant that 69% continued. In fact only 45% went on to the continuation phase, which has not yet been subject to RIAT analysis.

Comparison with other studies

Our finding is consistent with other findings, including a recent study that examined 142 studies of six psychotropic drugs for which journal articles and clinical trial summaries were both available.[25, 26] Most deaths (94/151, 62%) and suicides (8/15, 53%) reported in trial summaries were not reported in journal articles. Only one of nine suicides in olanzapine trials was reported in published papers.

Reporting of adverse events

Our reanalysis of study 329 revealed significant variations in the way Adverse Events can be reported, demonstrating several ways in which the analysis and presentation of safety data can influence the apparent safety of a drug (see Box 2).

Box 2. Potential barriers to accurate reporting of harms

1. Use of an idiosyncratic coding system

The term 'emotional lability', as used in SKB's ADECS, masks discrepancies in suicidal behaviour between paroxetine and placebo.

2. Failure to transcribe all Adverse Events from the clinical record to the Adverse Event database

Our review of Case Report Forms disclosed significant under-recording of Adverse Events.

3. Filtering data on Adverse Events through statistical techniques

For instance, Keller et al. (and GSK in subsequent correspondence) ignored unfavourable harms data on the grounds that the difference between paroxetine and placebo was not statistically significant, at odds with the SKB protocol that called for primary comparisons to be made using descriptive statistics. In our opinion, statistically significant or not, all relevant primary and secondary outcomes, and harms outcomes, should be explicitly reported. Testing for statistical significance is most appropriately undertaken for the primary outcome measures. We have not undertaken statistical tests for harms, since we know of no valid way of interpreting them. To get away from a dichotomous (statistically significant/non-significant) presentation of evidence, we opted to present all original and recoded evidence to allow readers their own interpretation. The data presented in RIAT Appendix 2 and related worksheets lodged at <u>www.xxx</u> will, however, readily permit other approaches to data analysis for those interested, and we welcome other analyses.

4. Restriction of reporting to events that occurred above a given frequency in any one group

In the Keller et al. paper, reporting only Adverse Events that occurred in more than 5% of patients obscured the harms burden. In contrast, we report all Adverse Events that have been recorded. These are available in Table v in RIAT Appendix 2 that accompanies this paper.

5. Coding an event under different headings for different patients (dilution)

The effect of reporting only Adverse Events that have a frequency of more than 5% is compounded when, for instance, agitation may be coded under agitation, anxiety, nervousness, hyperkinesis and emotional lability; thus, a problem occurring at a rate of >10% could vanish by being coded under different subheadings such that none of these reach a threshold rate of 5%.

Aside from making all the data available so that others can scrutinize it, one way to compensate for this possibility is to present all the data in broader SOC groups. MedDRA offers the following higher levels: psychiatric; cardiovascular; gastrointestinal; respiratory; and other. In RIAT Appendix 2, table v, the Adverse Events coded here under 'Other' are broken down under the additional MedDRA SOC headings including general, nervous system, metabolic, and pregnancy.

6. Grouping of Adverse Events

Even when presented in broader system groups, grouping common and benign symptoms with more important ones can mask safety issues. For example, in the Keller paper, common Adverse Events such as dizziness and headaches are grouped with psychiatric Adverse Events in the 'nervous system' SOC heading. Since these Adverse Events are frequent across treatment arms, this grouping has the effect of diluting the difference in psychiatric side effects between paroxetine, imipramine and placebo.

We have followed MedDRA in reporting dizziness under 'cardiovascular' events and headache under 'nervous system'. There may be better categorisations; our grouping is provisional rather than strategic. In RIAT Appendix 2, table v, we have listed all events coded under each SOC heading and we invite others to further explore these issues, including alternative higher level categorisation of these Adverse Events.

7. Rating Severity

In addition to coding Adverse Events, investigators rate them for severity. If no attempt is made to take severity into account, readers may get the impression that there was an equal Adverse Event burden in each arm, when in fact all events in one arm might be severe and enduring while those in the other might be mild and transient.

One way to manage this is to look specifically at those patients who drop out of the study because of Adverse Events. Another method is to select those Adverse Events coded as severe for each drug group while omitting those coded as mild or moderate. We used both approaches.

8. Relatedness coding

Judgements by investigators as to whether an Adverse Event is related to the drug can lead to discounting the importance of an effect. We have included these judgements in the worksheets lodged at <u>www.xxx</u> [TBA] but have not analysed them, because it became clear that the blind had been broken in several cases before relatedness was adjudicated by the original investigators, and because some judgements were implausible. For instance, it is documented in the Clinical Study Report (p 279) that an investigator, knowing the patient was on placebo, declared that a suicidal event was 'definitely related to treatment', on the grounds that 'the worsening of depression and suicidal thought were life threatening and definitely related to study medication [known to be placebo] in that there was a lack of effect'. Notably, of the 11 patients with serious Adverse Events on paroxetine (compared to two on placebo) reported in the Keller paper, only one 'was considered by the treating investigator to be related to paroxetine treatment', thus dismissing the clinically significant difference between the paroxetine and placebo groups for serious Adverse Events.

9. Masking effects of concomitant medication

In almost all trials, patients will be on concomitant medications. The Adverse Events from these other medications will tend to obscure differences between active drug treatment and placebo. This may be a very significant factor in trials of treatments such as statins, where patients are often on multiple medications.

Accordingly we also compared the list of Adverse Events in those on concomitant medication versus those not on other medication. There are other medications instituted in the course of the study that we have not analysed, but the data are available in our RIAT Appendix 2 and worksheets lodged at www.xxx, and in Appendix B from the Clinical Study Report. There are a number of other angles in the submitted data that could be further explored, such as the effects of withdrawal of concomitant medication on Adverse Event profiles as the spreadsheets

submitted offer the day of onset of Adverse Events and the dates of starting or stopping any concomitant medication. Another option to explore is the possibility of any prescribing cascades triggered by Adverse Events related to study medication.

10 The Effects of Medication Withdrawal

The protocol included a taper phase lasting 7-17 days that investigators were encouraged to adhere to even in patients who were discontinued because of adverse events. The original paper did not analyse these data separately. We have done. They reveal evidence consistent with dependence on and withdrawal from paroxetine.

RIAT Process

This RIAT exercise proved to be demanding of resources. We have logged (www.xxx [TBA]) over 200,000 words of email correspondence amongst the team over two years. The single screen remote desktop interface (we called the "periscope") proved to be an enormous challenge. The efficacy analysis required multiple spreadsheet tables be opened simultaneously, with much copying, pasting, cross-checking, and the space was highly restrictive. Gaining access to the Case Report Forms required extensive correspondence with GSK.[11] Although GSK ultimately provided Case Report Forms, they were even harder to manage, given that could we see only one page at a time. It required of the order of one thousand hours to examine only a third of the Case Report Forms. Being unable to print was a significant handicap. There were no means to prepare packets for multiple independent coders to decrease bias; to make annotations or use marginalia; or to sort and collate the Adverse Event reports. Our experience highlights that hard copies are crucial for an enterprise like this.

Our analysis indicates that although Clinical Study Reports are useful, and in this case all that was needed to reanalyse efficacy, analysis of adverse events requires access to individual patient level data in the form of Case Report Forms.

Because we have been breaking new ground, we have not had precedents to call on in analysis and reporting. We await with interest other efforts to do something similar.

Strengths and limitations of this study

Study 329 was a randomised controlled trial with a reasonable sample size. However there was evidence of protocol violations, including some cases of blind-breaking. The coding of Adverse Events by the original investigators raised the possibility that some other data might be unreliable.

The trial duration was only eight weeks. Participants had relatively chronic depression (mean duration more than one year), which would limit the generalizability of the results, particularly to primary care, because many cases of adolescent depression have shorter durations.[27] Generalizability to primary care would also be limited by the fact that participants were recruited via tertiary settings.

The RIAT analysis broke new ground but was limited in that only 34% (92/275) of Case Report Forms could be checked. Time and resources prevented access to all CRFs because of the difficulties in using the portal for accessing the study data and because significant data were missing.

The analysis generated a useful taxonomy of potential barriers to accurate reporting of Adverse Events, and even allowing for the above limitations, demonstrated the value of permitting access to data.

Conclusion and implications for research and policy

Contrary to the original report by Keller et al., Study 329 showed no advantage of paroxetine or imipramine over placebo in adolescent depressive symptomatology on any of the pre-specified parameters. The extent of the clinically significant increases in Adverse Events in the paroxetine and imipramine arms, including serious, severe, and suicide related Adverse Events only became apparent when the data were made available for reanalysis. Researchers and clinicians should recognise the potential biases in published research, including the potential barriers to accurate reporting of harms that we have identified. Regulatory authorities should mandate accessibility of data.

As with most scientific papers, Keller et al. conveys an impression that 'the data have spoken'. This authoritative stance is only possible in the absence of access to the data. When the data become accessible to others, it becomes clear that scientific authorship is provisional rather than authoritative.

SUMMARY BOX

Section 1: "What is already known on this topic"

- There is a lack of access to data from most clinical randomised controlled trials, making it difficult to detect biased reporting.
- In the absence of access to primary data, misleading conclusions in publications of those trials can appear definitive.
- GlaxoSmithKline's Study 329, an influential trial that reported that paroxetine was safe and effective for adolescents, is one such study.

Section 2: "What this study adds"

- On the basis of access to the original Study 329 data, we report a reanalysis that concludes that paroxetine, a blockbuster antidepressant, was ineffective and unsafe in this study.
- Access to primary data makes clear the many ways in which data can be analysed and represented, demonstrating the importance of access to data and the value of reanalysis of trials.

• There are important implications for clinical practice, research, regulation of trials, licensing of drugs, and the sociology and philosophy of science.

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• Our reanalysis has developed a methodology that may be adapted for future reanalyses of randomised controlled trials.

Trial Registration: Registration number and name of trial register: SmithKline Beecham study 29060/329.

Trial Protocol: SmithKline Beecham study 29060/329, Final Clinical Report (Acute Phase), Appendix A, Protocol, from p. 531.[13]

Trial Funding: SmithKline Beecham study.

Ethical approval: "The protocol and statement of informed consent were approved by an Institutional Review Board (IRB) prior to each center's initiation, in compliance with 21 United States Code of Federal Regulations (CFR) Part 56. Written informed consent was obtained from each patient prior to entry into the study, in compliance with 21 CFR Part 50. Case report forms were provided for each patient's data to be recorded" (Final Clinical Report page 000030). The sample informed consent is provided in Appendix to the Protocol, Appendix C, page 000590 to page 000594. No further information is available regarding the particular IRB that approved the study.

Funding of the RIAT reanalysis: No funding received. Data Analysis Protocol for RIAT reanalysis: Submitted to GSK on 28 October 2013. Approved by GSK on 4 December 2013.

Authorship

All authors meet ICMJE authorship criteria.

Conception/design of the work: Healy, Jureidini, Nardo

Acquisition of data: Jureidini (negotiation with GSK); Tufanaru and Abi-Jaoude (RIATAR); Nardo (efficacy data using GSK online remote system); Le Noury (harms data using GSK online remote system)

Data analysis: Nardo (efficacy); Le Noury and Healy (harms)

Data interpretation: all authors

Drafting the work and revising it critically for important intellectual content, final approval of the version to be published: all authors

Agreement to be accountable for all aspects of the work: all authors (guarantor Jureidini) The first four authors made equal contribution to the paper.

We thank Tom Jefferson and Leemon McHenry for comments on various drafts.

RIAT Appendices

1. RIATAR audit record (RIATAR)

- 2. Adverse event tables
- 3. Study 329 Suicidal & Self Injurious Behaviour

Supplementary material

Detailed data tables are available at http://study329.org/ [or on BMJ website if you prefer]

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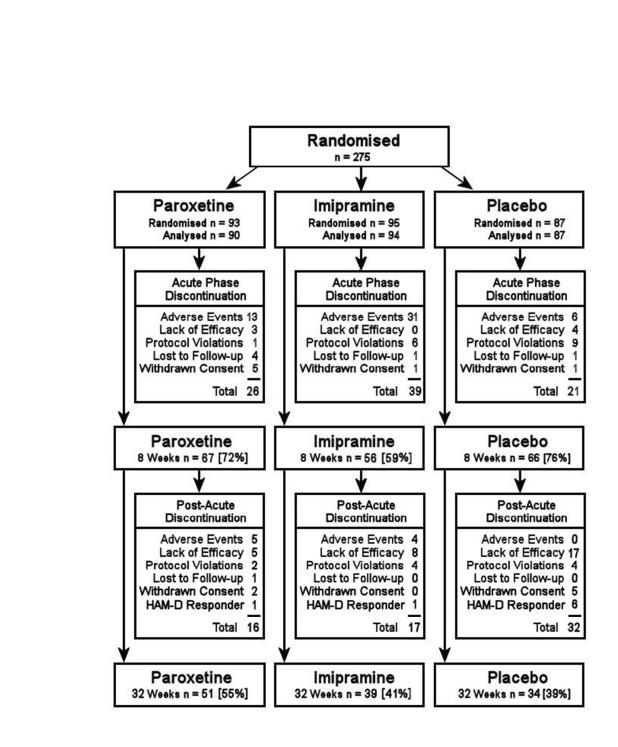
Table 3. Datasets for primary and secondary outcomes: Observed	d case, Last Observation Carried Forward, and Multiple Imputation

				Pri	mary Effic	acy Variables [8 We	eks]						
		Paroxetine			Imipramine				Placebo			p	
	Data	LSMean [95% CI]	SEM n		L	SMean [95% Cl]	SEM	n	LS	Mean [95% Cl]	SEM	n	ANOVA
	oc	-12.2 [-13.9 to -10.5]	0.88	67	-10.6	[-12.5 to -8.7]	0.97	56	-10.5	[-12.3 to -8.8]	0.88	66	0.26
HAM-D Change	LOCF	-10.7 [-12.3 to -9.1]	0.81	90	-9.0	[-10.5 to -7.4]	0.81	94	-9.1	[-10.7 to -7.5]	0.83	87	0.20
	МІ	-12.5 [-14.2 to -10.9]	0.83	90	-11.1	[-12.9 to -9.4]	0.89	94	-10.7	[-12.4 to -9.1]	0.83	87	0.24
		YO.											
		criteria met	[+/	-]		criteria met	[+	/-]		criteria met	[+/	'-]	X ²
	ос	80.6%	54/13		73.2% 41/15		/15		65.2%	43/	23	0.13	
HAM-D Response <u>></u> 50% drop or <u><</u> 8	LOCF	66.7%	60/	30		58.5%	55/	/39	55.2%		48/	39	0.27
<u>_</u> ,	МІ	MI 73.3%		66/24		70.2%	66/28			70.1%	61/26		0.24

Secondary Efficacy Variables [8 Weeks]

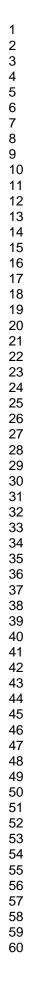
		Paroxetine			Imipramine			Placebo			p
		LSMean [95% CI]	SEM	n	LSMean [95% CI]	SEM	n	LSMean [95% CI]	SEM	n	ANOVA
	ос	-12.1 [-13.8 to -10.3]	0.91	67	-10.7 [-12.7 to -8.7]	0.82	56	-10.7 [-12.5 to -8.9]	0.92	65	0.46
K-SADS-L Change	LOCF	-11.4 [-13.1 to -9.8]	0.84	83	-9.5 [-11.1 to -7.9]	0.82	88	-9.4 [-11.0 to -7.8]	0.83	85	0.13
	МІ	-12.3 [-13.9 to -10.6]	0.84	83	-11.5 [-13.3 to -9.7]	0.91	88	-10.9 [-12.6 to -9.2]	0.86	85	0.54
	ос	1.9 [1.6 to 2.2]	0.15	68	2.2 [1.8 to 2.5]	0.17	56	2.4 [2.1 to 2.7]	0.16	66	0.09
CGI Mean Score	LOCF	2.5 [2.1 to 2.7]	0.16	90	2.7 [2.4 to 3.0]	0.15	94	2.7 [2.4 to 3.0]	0.16	87	0.16
	МІ	1.9 [1.6 to 2.2]	0.14	90	2.2 [1.9 to 2.5]	0.15	94	2.4 [2.1 to 2.6]	0.14	87	0.07
	ос	14.4 [8.8 to 19.9]	2.83	58	13.3 [7.3 to 19.4]	3.04	52	9.3 [3.8 to 14.8]	2.81	60	0.32
Autonomous Function Check List Change	LOCF	14.7 [9.2 to 20.2]	2.80	60	11.6 [5.8 to 17.3]	2.92	57	9.3 [8.1 to 17.2]	2.76	62	0.39
je	МІ	14.0 [8.7 to 19.3]	2.65	60	14.5 [9.4 to 19.6]	2.60	57	9.1 [4.2 to 14.1]	2.52	62	0.24
	ос	12.9 [8.3 to 17.5]	2.31	60	13.2 [8.4 to 18.1]	2.46	55	12.7 [6.9 to 15.9]	2.30	60	0.88
Self Perception Profile Change	LOCF	13.2 [8.6 to 17.8]	2.33	61	13.1 [8.3 to 17.8]	2.41	60	11.4 [6.9 to 15.9]	2.27	63	0.88
Change	МІ	15.4 [10.7 to 20.0]	2.35	61	14 [8.9 to 19.2]	2.60	60	14.7 [10.0 to 19.4]	2.39	63	0.92
Sickness Impact Profile Change	ос	-11.2 [-14.3 to -8.1]	1.57	62	-13.5 [-16.9 to -10.2]	1.70	55	-10.6 [-13.7 to -7.5]	1.57	62	0.24
	LOCF	-11.4 [-14.4 to -8.3]	1.55	63	-13 [-16.2 to -9.8]	1.62	60	-9.9 [-12.9 to -6.9]	1.51	65	0.23
	МІ	-11.5 [-14.2 to -8.7]	1.39	63	-13.9 [-16.8 to -10.9]	1.50	60	-10.1 [-13.0 to -7.1]	1.48	65	0.19

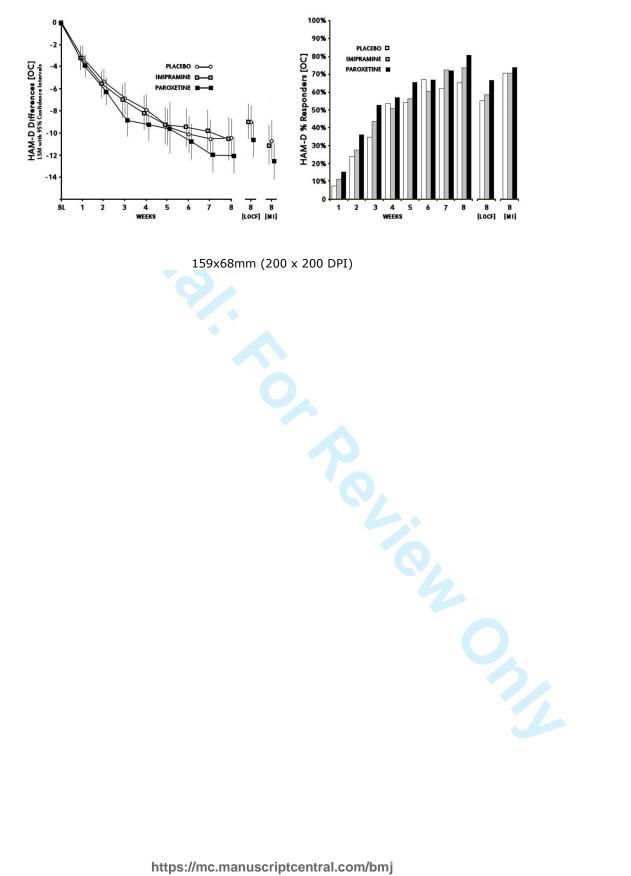
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RIAT Audit Record (RIATAR)

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Section/Topic	ltem No	Checklist item	Reported on page No of RIAT manuscript	Source ^{BMJ} tion(s) of the Clinical Study Report (CSR): page No. and paragraph**	PDF page No (for PDF files)***	Notege 40 of 140
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	1b	Structured summary of trial design, methods, results, and conclusions (for specific guidance see CONSORT for abstracts)	p.1	CSR Final Clinical Report Acute Phase; Report Synopsis, pages 13-21; Continuation Study, Final Clinical Report, Report Synopsis, pages 4 to 9.	CSR Final Clinical Report Acute Phase; Report Synopsis, pages 13-21; Continuation Study, Final Clinical Report, Report Synopsis, pages 4 to 9.	
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Limitationo	20	addressing sources of potential bias, imprecision, and, if relevant, multiplicity of analyses	p. 1, p. 07, p. 8, Box 1; p.22-23; p.23-25, Box 2; p. 25; p.25-26, Box 3;			
Generalisability	21	Generalisability (external validity, applicability) of the trial findings	p.23-25, Box 2; p.25- 26, Box 3;	Final Clinical Report, Acute Phase, Report Synopsis, Conclusions, page 21; 8 Conclusions, page 124; Continuation Study, Final Clinical Report, Report Synopsis, Conclusions, page 9; 8 Conclusions, page 64;	Same page numbersin the PDF of Final Clinical Report, Acute Phase andFinal Clinical Report, Continuation Phase;	
Interpretation	22	Interpretation consistent with results, balancing benefits and harms, and considering other	p.22-23; p. 25; https://r	Final Clinical Report, Acute Phase, Report Synopsis, Conclusions page 21 paragraph 2; 7 Discussion, page 121- 123;8 Conclusions, page 124; Continuation Study, Final Clinical Report, Report Synopsis, Conclusions, page 9; 7 Discussion, pages 61-63; 8 Conclusions, mc.manuscriptcentral.com/bmj	Same page numbersin the PDF of Final Clinical Report, Acute Phase andFinal Clinical Report, Continuation Phase;	

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4 5 6	Other information		relevant evidence		page 64;		
7 8 9 10 11 12 13	Registration	23	Registration number and name of trial registry	p.26;	SmithKline Beecham study 29060/329, Final Clinical Report Acute Phase, page 1; SmithKline Beecham study 29060/329, Final Clinical Report, Addendum to Study Report–Continuation Phase, page 1;	Final Clinical Report Acute Phase, page 1; Final Clinical Report, Continuation Phase, page 1;	
14 15 16 17 18	Protocol	24	Where the full trial protocol can be accessed, if available	p.2, 26, 27 (references 7 and 8);	SmithKline Beecham study 29060/329, Final Clinical Report Acute Phase, Appendix A, Protocol, from page 531;	Final Clinical Report Acute Phase, Appendix A, Protocol, from PDF page 1;	
19 20 21 22 3 4 25 26 27 28 20 31 23 34 35 36 37 8 9 0 41 42 43 44 5 46 47 48 49	Funding	25	Sources of funding and other support (such as supply of drugs), role of funders	p.26; https://r	SmithKline Beecham study 29060/329, Final Clinical Report Acute Phase, page 1; Supply of drugs: Final Clinical Report, Report Synopsis, Treatment and Administration, Test product, Reference therapies, page 15, paragraph 1-2; 3 Methodology, 3.5 Treatments and Administration, 3.5 Treatments and Administration, 3.5.1 Study Medication, Table 2 Appearance, Formulation, Dosage Strengths, and Batch Numbers of Study Medication, page 32, paragraph 1; Role of funders: Final Clinical Report, 3.2 Investigators, page 28, paragraph 3-5 to page 29, paragraph 1; Role of funders: 3 Methodology, 3.5 Treatments and Administration, 3.5.3 Methods of Blinding, page 35, paragraph 3; Role of funders: 3.10 Safety Assessments, 3.10.1 Adverse Experiences, Serious Adverse Experiences, page 45 paragraph 2; 3.12 Data Quality Assurance, page 47 paragraph 5 to page 48 paragraph 1-5; Role of funders: Final Clinical Report Acute Phase, Appendix	Same page numbers for PDF Final Clinical Report Acute Phase andFinal Clinical Report, Continuation Phase;Final Clinical Report Acute Phase, Appendix A, Protocol, PDF pages 7, 9, 21;Appendix A, Protocol, PDF page 25; Final Clinical Report Acute Phase, Appendix A, Protocol, PDF page 26; Appendix A, Protocol, PDF pages 36, 37; Clinical Report Acute Phase, Appendix A, Protocol, PDF page 38; Clinical Report Acute Phase, Appendix A, Protocol,	

A Protocol, Amendment #1 Approved: April 17, 1994, Section 7.5.2, page 537, Protocol, APDE page 45; Final Clinical Report Acute Phase, Appendix A, Protocol, APDE page 45; Final Clinical Considerations, 5.1 Ethics Review Committee (ERCV)Institutional Review Board (IRB), paragraph 2; Final Clinical Report Acute Phase, Appendix A, Protocol, 5.2.2 Renotix A, Protocol, 7.5.2 Serious Adverse Experiences, page 566, 7.5 Serious Adverse Experiences, page 567; Final Clinical Report Adverse Experiences, page 567; Final Clinical Report Acute Phase, Appendix A, Protocol, 7.5 Serious Adverse Experiences, page 567; Final Clinical Report Adverse Experiences, page 567; Final Clinical Report Acute Phase, Appendix A, Protocol, 7.5 Serious Adverse Experiences, 7.5.2 Reporting Serious Adverse Experiences, 7.5.2 Appendix A, Protocol, 7.7 Pro pages 57; Spage 57; Spage 57; Si: PDF pages 57; Si: PDF page 57; Si: PDF page 57; Si: PDF pages 57; Si: PDF pages 57; Si: PDF pages 57; Si: PDF pages 57; Si: PDF page 57; Si: PDF pa	1 2 3	Section/Topic	ltem No	Checklist item	Reported on page No of RIAT manuscript	Source ^{BM} tion(s) of the Clinical Study Report (CSR): page No. and paragraph**	PDF page No (for PDF files)***	Nofeg ^{e g}	96 of 140
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31					A, Protocol, APPENDIX B, ADMINISTRATIVE MATTERS, IV. CASE REPORT FORM INSTRUCTIONS, page 586 to page 587 paragraph 1-2; Final Clinical Report Acute Phase, Appendix A, Protocol, APPENDIX B, ADMINISTRATIVE MATTERS, V. MONITORING BY SMITHKLINE BEECHAM (i.e. the Sponsor), page 587 paragraph 3-4; VI. ARCHIVING OF DATA, page 587 paragraph 6-7; VII. AUDITS, page 587 paragraph 8 to page 588 paragraph 1-4; VIII. CONFIDENTIALITY AND PUBLICATION, page 588 paragraph 5-6 to page 589 paragraph 1-3; Certificates of Analysis, page 1435-1446; Audited Investigator Sites, page 1480- 1482; SmithKline Beecham study 29060/329, Final Clinical Report, Addendum to Study Report Continuation Phase, page 1; 3.3 Study Medication and Administration, page 20; 3.5 Method of Randomization, page 22;		
32 33 34 35 36 37 38	for inclusion into the which is a widely ad for important clarific	e RIAT n lopted st ations o	nanuscript submitted tandard for reporting n all the items. Simil	l for publication randomised tri ar audit records	parts of text, tables and figures of the source . This tool is based upon checklist items des als. RIAT authors should consult the CONS s can be created for other types of trials by a e trials, non-pharmacological treatments, he	cribed in the CONSORT 201 ORT 2010 Explanation and E idapting other CONSORT ex	0 stateme Elaboration tensions,

See www.consort-statement.org for more details.

**Note that Appendix A contains the study Protocol, which itself includes APPENDIX A to APPENDIX G. The CSR appendices are written with lower case letters except for the first letter, which is upper case (Appendix A, Appendix B, etc.); the appendices of Appendix A are written with upper case letters entirely (ex. APPENDIX A, APPENDIX B, etc.).

***All CSR Final Clinical Report PDF page numbers are the same as the document page numbers.

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Table i – I (8 weeks)	Pairwise compari	son tabl	es – Primary a	and secondary	efficacy varia	ables
			Prim	nary Efficacy V	ariables [8 W	eeks]
			Omnibus	Paroxetine v. Placebo	Imipramine v. Placebo	Paroxetine v. Imipramine
		_		Analysis of Var	iance	
	HAM-D Change	ОС	0.255	0.106	0.673	0.261
		LOCF	0.204	0.153	0.895	0.109
				Logistical Regre	ession	
н	IAM-D Response	ОС	0.131	0.044	0.337	0.332
2	<u>></u> 50% drop or <u><</u> 8	LOCF	0.269	0.117	0.651	0.253
		Secondary Efficacy Variables [8 Weeks]				
			Omnibus	Paroxetine v. Placebo	Imipramine v. Placebo	Paroxetine v. Imipramine
				Analysis of Var	iance	. <u></u>
K	-SADS-L Change	ос	0.459	0.209	0.679	0.447
		LOCF	0.131	0.072	0.902	0.084
(CGI Mean Score	oc	0.086	0.034	0.269	0.289
		LOCF	0.155	0.084	0.836	0.124

0.325

0.367

0.875

0.788

0.244

0.233

0.166

0.145

0.904

0.711

0.752

0.504

0.243

0.498

0.702

0.489

0.070

0.055

0.903

0.490

0.619

0.761

0.191

0.302

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Analysis of Variance - with Treatment and Site Effects in the model Logistical Regression - with Treatment and Site Effects in the model OC – Observed Cases

OC

LOCF

ос

LOCF

ос

LOCF

LOCF – Last Observation Carried Forward

Autonomous Function

Check List Change

Self Perception Profile

Change

Sickness Impact

Profile Change

Note - All p values uncorrected for multiple variable sampling

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Table ii – Additional AEs found	during review of 93 CRFs	(acute nhase nlus taner)
	auring review of 50 ora 5	(acute phase phas taper)

Cardiovascular	(n=31)	Imipramine (n=40)	Placebo (n=22)
	0	5	0
Gastrointestinal	4	4	2
Psychiatric	12	1	4
Respiratory	0	1	1
Other	7	6	3
Total	23	17	10
	3		

Table iii – Breakdown of new adverse events found during CRF review by System
Organ Class (SOC) (MedDRA)

SOC	Adverse Event	Paroxetine N=31	Imipramine N=40	Placebo n=22
		No. found in CRF review	No. found in CRF review	No. found in CRF review
Psychiatric disorders	Suicidal ideation	2	0	1
	Feelings of hopelessness	1	0	0
	Self harm/suicidal gesture	1	0	0
	Depression worsening	2	0	1
	Psychosis	1	0	0
	Increased anger/aggression	1	0	0
	Insomnia	1	0	0
	Agitation	1	0	0
	Somnolence	0	0	0
	Nervousness	0	1	0
	Decreased concentration	0	0	1
	Mutism/soft speech	2	0	0
	Increased anxiety	0	0	1
A A A A A B B A	Total	12	1	4
Gastrointestinal disorders	Nausea Gastrointestinal	1	1 0	2 0
	complaints	1	0	0
	Increased sickness Diarrhoea	1	1	0
	Vomiting	0	1	0
	Heartburn	0	1	0
	Total	4	4	2
Metabolism and nutrition	Loss of appetite	1	0	0
disorders	Weight loss	2	0	0
	Dehydration	0	1	0
	Total	3	1	0
Musculoskeletal and	Neck pain	0	0	1
connective tissue disorders	Joint pain	0	0	1
	Total	0	0	2
General disorders and	Fatigue	4	1	0
administration site	BodyBP shakes	0	1	0
conditions	Fever	0	0	1
Nomence avetama dia andara	Total	4	4	1
Nervous systems disorders	Headache Total	0	2	0 0
Respiratory, thoracic and	Chest congestion	0	1	0
mediastinal disorders	Cough	0	0	1
	Total	0	1	1
Cardiac disorders	Tachycardia	0	0	0
	Dizziness	0	3	ů 0
	Low systolic BP	0	1	0
	High BP	0	1	0
	Total	0	5	0
Skin and subcutaneous tissue disorders	Sweating	0	1	0
	Total	0	1	0
Total Psychiatric disorders		12	1	4
TOTAL ALL OTHER AES		11	16	6
GRAND TOTAL		23	17	10

NB. All AEs found for the paroxetine and imipramine patients were reported during the acute phase. For the placebo group, 2 additional AEs ('depression worsening' & 'increased irritability') were found during the continuation phase.

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Table iv - Summary of all adverse events by SOC

	Paroxetine N=93	Imipramine N=95	Placebo N=87
System Organ Class (MedDRA)	Reanalysis- CSR check only	Reanalysis- CSR check only	Reanalysis- CSR check only
Cardiac and vascular disorders	45	131	32
Gastrointestinal disorders	112	147	79
Psychiatric disorders	100	63	24
Nervous system disorders	100	113	77
Respiratory, thoracic and mediastinal disorders	42	22	39
General disorders and administration site conditions	15	10	17
Skin and subcutaneous tissue disorders	10	17	10
Renal and urinary disorders	5	9	4
Immune system disorders	2	2	3
Endocrine disorders	1	1	1
Blood and lymphatic system disorders	1	4	3
Musculoskeletal disorders	8	7	16
Reproductive system and breast disorders	4	4	4
Infections	6	5	4
Eye disorders	5	4	1
Metabolism and nutrition disorders	17	6	10
Ear and labyrinth disorders	1	0	0
Injuries, poisoning and procedural complications	3	3	6
Pregnancy, puerperium and perinatal conditions	0	2	0
Surgical and medical procedures	1	2	0
TOTAL NUMBER OF AEs	478	552	330

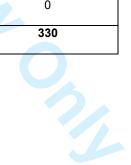


Table v – Full breakdown of all adverse events within each SOC, including those classed as 'Severe' by investigator - events from CSR Appendix D check only

soc	MedDRA Term	Paroxetine N=93		Imipramine N=95		Placebo N=87	
		No. reported in Appendi	No. reported as 'Severe'	No. reported in Appendi	No. reported as 'Severe'	No. reported in Appendi	No. reported as 'Severe
Canding and		x D		x D		x D	
Cardiac and	Atrial ectopic	0	-	0	-	1	0
vascular disorders	AV block	1	0	2	0	2	0
disorders	Bradycardia	0	-	0	-	1	0
	Bundle branch	0	-	1	0	1	0
	block Chast pain	2	1	5	1	2	0
	Chest pain Dizziness	35	1 0	57	1	18	0
	ECG/ T-ECG	0		57 7	0	2	0
		0	-	7	0	2	0
	abnormal	0		6	0	2	0
	Hot flush NIL		-	6	0		0
	Postural	0	- 0	2 17	0	1	0
	hypotension/	<u>ک</u>	0	17	0	I	0
	hypotension QT interval	0		3	0	0	-
	prolonged	0	-	5	0	0	-
	Tachycardia	3	0	28	1	1	0
	Hypertension	0	-	20	0	0	-
	Migraine	1	0	1	1	0	-
	TOTAL	45	1	131	4	32	0
		43		131	4	52	U
Gastrointestin	Abdominal pain	0		0		2	0
al disorders	Constipation	7	- 0	10	2	4	0
ai uisoi ueis	Cramps		1	10	0	4 14	0
	Diarrhea	14 12	6	8	3	9	0
		20	0	48	2	9 12	1
	Dry Mouth	20	0	40	0	4	0
	Dyspepsia/ heartburn				_		
	Food poisoning	1	0	0	-	1	1
	Gastroenteritis/ GI complaints	0	-	1	1	0	-
	Nausea/ sickness	37	10	43	5	27	2
	Reflux	1	0	0	-	0	-
	Retching	0	-	1	0	0	-
	Sores	0	-	0		1	0
	Stomatitis	0	-	2	2	0	-
	Ulcer	1	1	0	0	0	0
	Vomiting	11	7	11	5	5	0
	TOTAL	112	25	147	20	79	4
Psychiatric	Abnormal	3	0	5	0	2	0
disorders	dreams						
	Aggravated	5	3	3	0	2	1
	depression						
	Aggression/	7	3	3	2	0	-
	increased anger						
	Agitation	0	-	1	0	0	-
	Akathisia	18	1	12	1	8	0
	Anorgasmia	1	1	0	-	0	-
	Anxiety	2	1	0	-	1	1
	Concentration	2	0	1	0	0	-
	low						

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	Depersonalisatio n	0	-	1	0	1	0
	Disinhibition	4	3	1	0	2	1
	Drug withdrawal	2	1	0	-	0	-
	syndrome	-		Ū.		Ū.	
	Hallucinations	1	1	1	1	0	-
	Hopelessness	0		0	_	0	-
	(feelings of)	-		-		-	
	Insomnia	16	2	14	0	4	1
	Nervousness	0		0	-	0	-
	Paranoia	1	0	0	-	0	-
	Psychosis	1	1	0	-	0	-
	Somnolence	24	6	14	0	3	0
	Substance	1	1	1	0	0	-
	abuse	-	-	-		-	
	Suicidal	4	4	3	0	1	1
	ideation/gesture			-	_		
	Suicide attempt	8	4	3	0	0	-
	TOTAL	100	32	63	4	24	5
		-		-	-	-	
Nervous	Bad taste	0	-	3	0	0	-
system	Convulsion	0	-	1	1	0	-
disorders	Dystonia	5	0	7	0	3	0
	Heacdache	59	3	59	9	56	4
	Laryngitis	1	0	0	-	0	-
	dystonia				0	0	
	Memory loss	0	-	1	0	0	-
	Myoclonus		1	1	0	0	-
	Paresthesia	1	0	1	0	0 11	-
	Sore throat-	10	1	12	1	11	2
	dystonia Tics	1	0	1	0	0	-
	Tinnitus	0	-	2	0	0	-
	Toothache	6	- 1	0	-	3	1
	dystonia	Ū		Ŭ		0	· ·
	Tremor	11	1	20	1	2	0
	Vision blurred	2	0	5	1	2	0
	TOTAL	100	7	113	13	77	7
Respiratory,	Chest cold/	11	1	6	0	14	1
thoracic and	congestion						
mediastinal	Coughing	6	0	4	0	6	0
disorders	Dyspnea	3	1	5	1	2	0
	Epistaxis	1	0	1	0	0	-
	Nasopharyngitis	3	0	0	-	1	0
	Respiratory	0		0	-	2	0
	disorder						
	Rhinitis	10	0	3	0	5	1
	Sinusitis	8	0	3	0	8	2
	Sneezing	0	-	0	-	1	0
	TOTAL	42	2	22	1	39	4
Gonoral	Rody Shakes	0		0		0	
General disorders and	Body Shakes Fatigue	0 15	- 2	0 8	- 1	11	-
administration	Faligue	0	-	2	0	4	0
site conditions	Pain	0		0	-	2	0
	TOTAL	15	- 2	10	- 1	<u> </u>	0
		10		10	•	17	
Skin and	Acne	3	0	2	0	1	0
subcutaneous	Dermatitis	1	0	2	0	1	0
tissue	ltchy	0	-	1	0	1	1
disorders	Rash	4	0	5	1	4	0
	Scabies	0	-			1	0

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	Sweating	2	0	7	0	1	0
	Syncope	0	-	0	-	1	0
	TOTAL	10	0	17	1	10	1
D	AU · ·						
Renal and	Albuminuria	0	-	0	-	4	0
urinary disorders	Cystitis	1	0	0	-	0	-
	Nocturia	0	-	1	0	0	-
	Polyuria	0	-	1	0	0	-
	Pyuria	0	-	1	0	0	-
	Urinary	3	0	0	-	0	-
	abnormality						
	Urinary retention	0	-	6	1	0	-
	UTI	1	0	0	-	0	-
	TOTAL	5	0	9	1	4	0
Immune	Allergy	1	0	1	0	3	0
system	Urticaria	1	0	1	0	0	-
disorders	TOTAL	2	0	2	0	3	0
Endocrine	Amenorrhea	1	0	0	-	0	-
disorders		0	-	1	1	1	0
	Hyperglycemia TOTAL	1 1	0	1	1	1	0
		•	— ~	•	•	•	
Blood and	Anemia	1	0	4	0	0	-
lymphatic	Eosinophilia	0	-	1	0	1	0
system	Leukopenia	0		2	0	0	-
disorders			-	0			- 0
uisoiueis	Lymphadenopat	0	-	0	-	1	0
	hy Theorem is a state of the second			0		4	0
	Thrombocythemi	0	-	0	-	1	0
	a						•
	TOTAL	1	0	4	0	3	0
Musculoskelet	Arthralgia	1	0	1	0	4	0
al and	Back pain	5	0	2	0	10	0
connective	Chills	0	-	3	0	0	0
tissue	Myalgia	2	0	1	0	2	0
disorders	TOTAL	8	0	7	0	16	0
		0	0		0	10	U
Reproductive	Breast	1	0	0		0	-
system and		I	0	0	-	0	-
	enlargement	0	0		4	4	4
breast	Dysmenorrhea	3	0	4	1	4	1
disorder	TOTAL	4	0	4	1	4	1
							-
Infections	Herpes zoster	0	-	0	-	1	0
	Infection	4	0	3	1	3	1
	Otitis media	2	1	2	0	0	-
	TOTAL	6	1	5	1	4	1
Eye disorders	Conjunctivitis	2	0	0	-	1	0
-	Itchy eyes	2	0	1	0	0	-
	Mydriasis	0	-	1	0	0	-
		1	0	1	0	0	-
	Photosensitivity		-		0	0	-
	Photosensitivity Photopsia		-	1	0		
	Photopsia	0		1 4			0
			- 0	1 4	0	1	0
Metabolism	Photopsia TOTAL	0 5	0	4	0	1	
Metabolism	Photopsia TOTAL Decreased	0					0
and nutritional	Photopsia TOTAL Decreased appetite	0 5 9	0	4 2	0 0	1 4	
and nutritional	Photopsia TOTAL Decreased appetite Dehydration	0 5 9 0	0 0	4 2 0	0 0 -	1 4 0	0
and nutritional	Photopsia TOTAL Decreased appetite Dehydration Increased	0 5 9	0	4 2	0 0	1 4	
	Photopsia TOTAL Decreased appetite Dehydration Increased appetite	0 5 9 0 4	0 0 - 0	4 2 0 1	0 0 - 0	1 4 0 1	0 - 0
and nutritional	Photopsia TOTAL Decreased appetite Dehydration Increased appetite Thirst	0 5 9 0 4 0	0 0 - 0	4 2 0 1 2	0 0 -	1 4 0 1 3	0
and nutritional	Photopsia TOTAL Decreased appetite Dehydration Increased appetite	0 5 9 0 4	0 0 - 0	4 2 0 1	0 0 - 0	1 4 0 1	0 - 0

	TOTAL	17	0	6	0	10	1
Ear and	Ear pain	1	0	0	-	0	-
labyrinth	TOTAL	1	0	0	-	0	-
disorders							
Injuries,	Head injury	0	_	1	0	0	
		-	-	1	-		-
poisoning and	Overdose	0	-		1	0	-
procedural	Trauma	3	0	1	0	6	0
complications	TOTAL	3	0	3	1	6	0
Pregnancy,	Pregnancy	0	-	2	1	0	-
puerperium	TOTAL	0	-	2	1	0	-
and perinatal							
conditions							
Surgical and	Tooth extraction	1	0	2	0	0	-
medical procedures	TOTAL	1	0	2	0	0	-
•		Total	TOTAL	Total	TOTAL	Total	TOTA
		AEs	SAEs	AEs	SAEs	AEs	SAEs
TOTAL NUMBER OF AEs		479	70	552	50	330	25

SOC	MedDRA Term	N=	ketine :19		amine :32		cebo =9
		No. AEs reported (CSR check)	No. reported as 'Severe'	No. AEs reported (CSR check)	No. reported as 'Severe'	No. AEs reporte d (CSR check)	No. reported as 'Severe
Cardiac and	AV block	1	0	0	0	0	0
vascular	Chest pain	0	0	1	0	0	0
disorders	Dizziness	3	0	2	0	0	0
	ECG/ T-ECG	0	0	1	0	0	0
	abnormal						
	QT interval	0	0	1	0	0	0
	prolonged						
	Tachycardia	0	0	2	0	0	0
	TOTAL	4	0	7	0	0	0
Gastrointestin	Constipation	1	0	2	0	0	0
al Disorders	Dry mouth	0	0	1	0	0	0
	Diarrhea	0	0	2	0	0	0
	Dysepsia	0	0	3	0	0	0
	Cramps	1	0	0	0	1	0
	Gastroenteritis	0	0	1	1	0	0
	Nausea/	4	2	6	1	1	0
	sickness			_			-
	Sores	0	0	0	0	1	
	Ulcer	1	1	0	0	0	0
	Vomiting	2	1	3	2	1	0
	TOTAL	9	4	18	4	4	0
Psychiatric disorders	Aggravated depression	0	0	0	0	1	1
	Aggression	2	1	0	0	0	0
	Akathisia	2	1	1	0	0	0
	Concentration low	1	0	0	0	0	0
	Drug withdrawal syndrome	2	1	0	0	0	0
	Insomnia	1	0	0	0	0	0
	Paranoia	1	0	0	0	0	0
	Somnolence	1	0	0	0	0	0
	Substance	1	1	0	0	0	0
	abuse						
	Suicidal	2	2	1	0	0	0
	ideation/gesture						
	Suicide attempt	2	1	0	0	0	0
	TOTAL	15	7	2	0	1	1
							-
Nervous	Convulsion	0	0	1	1	0	0
system	Headache	4	1	7	1	0	0
disorders	Sore throat-	1	0	1	0	0	0
	dystonia				<u> </u>		
	Tremor	1	0	0	0	0	0
	Vision blurred	1	0	0	0	0	0
	TOTAL	7	1	9	2	0	0
<u> </u>							
Respiratory,	Epistaxis	1	0	0	0	0	0
thoracic and	Rhinitis	2	0	0	0	0	0
mediastinal	Sinusitis	0	0	1	0	0	0
disorders	TOTAL	3	0	1	0	0	0
General	Fatigue	1	0	1	0	0	0

Table vi – Breakdown of adverse events during taper phase only

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Immune	Urticaria	0	0	1	0	0	0
system	Urticaria TOTAL	0 0	0 0	1 1	0 0	0 0	0 0
disorders							
Endocrine	Hyperglycemia	0	0	1	1	0	0
disorders	TOTAL	0	0	1	1	0	0
Blood and	Anemia	1	0	1	0	0	0
lymphatic system disorders	Eosinophilia Thrombocythemi a	0 0	0	1 0	0	0 1	0
	TOTAL	1	0	2	0	1	0
Musculoskelet	Arthralgia	0	0	1	0	0	0
al and	Back pain	0	0	0	0	1	0
connective	Myalgia	0	0	1	0	0	0
tissue disorders	TÔTÂL	0	0	2	0	1	0
Reproductive	Dysmenorrhea	1	0	0	0	0	0
system and breast disorder	TOTAL	1	0	0	0	0	0
Infections	Otitis media	0	0	1	0	0	0
	TOTAL	0	0	1	0	0	0
Metabolism and nutritional	Decreased appetite	0	0	0	0	1	0
disorders	Increased appetite	1	0	0	0	0	0
	Weight gain TOTAL	2 3	0 0	0	0 0	0 1	0 0
Injuries, poisoning and procedural complications	Overdose TOTAL	0	0	1 1	1	0	0 0
Brognonov	Programov	0		1	1		0
Pregnancy, puerperium and perinatal conditions	Pregnancy TOTAL	0	0 0	1 1	1 1	0	0
		Total	TOTAL	Total	TOTAL	Total	TOTA
		AEs	SAEs	AEs	SAEs	AEs	SAE

Table vii – Summary	v of adverse	events oc	currina dur	ring taper	phase only
	01 4410100	0101100 000	oannig aai	ing tapoi	

SOC		xetine =19	Imipramine N=32		Placebo N=9	
	No. AEs reported (CSR	No. reported as SEVERE	No. AEs reported (CSR	No. reported as SEVERE	No. AEs reported (CSR	No. reported as SEVERE
Cardiac and	check)	0	check)	0	check)	0
vascular disorders	4	U	7	U	0	0
Gastrointestinal disorders	9	4	18	4	4	0
Psychiatric disorders	15	7	2	0	1	1
Nervous system disorders	7	1	9	2	0	0
Respiratory, thoracic and mediastinal disorders	3	0	1	0	0	0
General disorders and administration site conditions	1	0	1	0	0	0
Renal and urinary disorders	3	0	1	0	2	0
Immune system disorders	0	0	1	0	0	0
Endocrine disorders	0	0	1	1	0	0
Blood and lymphatic system disorders	1	0	2	0	1	0
Musculoskeletal and connective tissue disorders	0	0	2	0	1	0
Reproductive system and breast disorder	1	0	0	0	0	0
Infections	0	0	1	0	0	0
Metabolism and nutritional disorders	3	0	0	0	1	0
Injuries, poisoning and procedural complications	0	0	1	1	0	0
Pregnancy, puerperium and perinatal conditions	0	0	1	1	0	0
	Total AEs	TOTAL SAEs	Total AEs	TOTAL SAEs	Total AEs	TOTAL SAEs
TOTAL NUMBER OF AEs	47	12	48	9	10	1

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Table viii – Summary of 'Severe' adverse events (all SOCs)

	Parox N=		Imipramine N=95		Placebo N=87	
soc	Total No. AEs reported in App D	No. reported as 'Severe'	Total No. AEs reported in App D	No. reported as 'Severe'	Total No. AEs reported in App D	No. reportec as 'Severe'
Cardiac and vascular disorders	45	1 (2.2%)	131	4 (3.1%)	32	0
Gastrointestinal disorders	112	25 (24%)	147	20 (13.6%)	79	4 (5.1%)
Psychiatric disorders	101	32 (31.7%)	63	(13.073) 4 (6.3%)	24	(<u>3.178)</u> 5 (20.8%)
Nervous system disorders	100	(31.77%) 7 (7.0%)	113	13 (11.5%)	77	(20.0%) 7 (9.1%)
Respiratory, thoracic and mediastinal disorders	42	2 (4.8%)	22	1 (4.5%)	39	4 (10.3%)
General disorders and administration site conditions	15	2 (13.3%)	10	1 (10.0%)	17	1 (5.9%)
Skin & subcutaneous tissue disorders	10	0	17	1 (5.9%)	10	1 (10%)
Renal and urinary disorders	5	0	9	1 (11.1%)	4	0
Immune system disorders	2	0	2	0	3	0
Endocrine disorders	1	0	1	1 (100%)	1	0
Blood and lymphatic system disorders	1	0	4	0	3	0
Musculoskeletal and connective tissue disorders	8	0	7	0	16	0
Reproductive system and breast disorders	4	0	4	1 (25%)	4	1 (25%)
Infections	6	1 (16.7%)	5	1 (20%)	4	1 (25%)
Eye disorders	5	0	4	0	1	0
Metabolism & nutritional disorders	17	0	6	0	10	1 (10%)
Ear and labyrinth disorders	1	0	0		0	-
Injuries, poisoning & procedural complications	3	0	3	1 (33.3%)	6	0
Pregnancy, puerperium and perinatal conditions	0	-	2	1 (50%)	0	-
Surgical and medical procedures	1	0	2	0	0	5-
TOTAL NUMBER OF AEs	478	70 (14.6%)	552	50 (9.1%)	330	25 (7.6%)

Table ix – Changes to 'reasons for discontinuation' during acute (plus taper) phase

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a) Paroxetine group

TAPER PHASE: In total 67 patients completed the 8 week acute phase. Of these, 16 were discontinued at the 8 week visit. The proposed changes to the reasons for discontinuation are given for each below:

Patient ID	SKB/GSK reason for discontinuation	Proposed reason for discontinuation	Notes
329.001.00068	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D)
329.001.00206	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D)
329.003.00081	Lack of Efficacy	OTHER (misc)	HAM-D scores indicate patient a 'Responder'
329.003.00089	Lack of Efficacy	AE (mania)	Became manic around wk4 (04 Apr 95), dose reduced wk7 (26 Apr 95) with note 'side effect manic' – p222 CRF), down-titrated & withdrawn week 8.
329.003.00248	Lack of Efficacy	Lack of Efficacy	Abnormal blood around same time as down- titration- but investigator deemed 'mild' & 'unrelated' Experienced 'severe' withdrawal symptoms.
329.003.00250	AE (overdose)	AE (suicidal)	End of week 58 dose reduced, while patient was 'waiting to start phase II meds'. During this interim period, patient was hospitalised for attempted suicide and subsequently withdrawn.
329.005.00258	Other (going for general surgery)	Lost to FU	Patient eligible for continuation but scheduled for general surgery.
329.005.00300	Lack of Efficacy	Lost to FU	Patient never turned up for final visit during down titration (see page 222 of CRF)
329.005.00336	Other (no study meds)	PV (investigator)	No meds
329.008.00188	PV (non compliance)	PV (non compliance)	Migraine & Anxiety 9dys 48 & 52), 'over-compliance 128%' day 55.
329.009.00193	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D)
329.009.00196	Withdrawn Consent	Withdrawn Consent	No acute phase conclusion page in CRF. Info from Appendix G
329.009.00201	AE (paranoia & aggression)	AE (paranoia & aggression)	
329.009.00324	AE (rash)	AE (rash)	
329.009.00329	Lack of Efficacy	AE (depression worsening)	Worsening of depression reported as AE just prior to initiating down titration
329.012.00025	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D)

CRF REVIEW: Out of 31 reviewed CRFs, 9 changes to reasons for withdrawal were proposed:

	Patient ID	SKB/GSK reason for withdrawal (as per Appendix G)	RIAT reason for withdrawal
Reason for withdrawal	329.001.00065	AE (aggression)	AE (suicidal)
changes	329.002.00058	AE (overdose)	AE (suicidal gesture/attempt) – OD (Tylenol x 80 pills) 3 days after discontinuing meds
	329.003.00313	AE (hospitalisation)	AE (suicidal)
	329.004.00015 *	Other (conflict with school and study)	Withdrawn consent
	329.004.00212	PV (non compliance)	AE (sedation)
	329.005.00333	Lack of Efficacy	AE (suicidal)
	329.009.00133	Lost to Follow Up	Lack of Efficacy
	329.011.00288	Lack of Efficacy	AE (agitation, possibly suicidal)
	329.012.00228	PV	Withdrawn consent

In addition, a further 8 participants who were originally described in Appendix G as having withdrawn for 'Adverse event, including intercurrent illness' were identified. These were as follows:

	Patient ID	SKB/GSK reason for withdrawal	RIAT reason for withdrawa
Adverse Events further defined	329.001.00063	(as per Appendix G) AE inc intercurrent illness	AE (mania)
	329.002.00058	AE inc intercurrent illness	AE (suicidal)
	329.002.00245	AE inc intercurrent illness	AE (intentional overdose)
	329.003.00250 *	AE inc intercurrent illness	AE (suicidal)
	329.005.00011 *	AE inc intercurrent illness	AE (suicidal)
	329.005.00152	AE inc intercurrent illness	AE (GI – nausea/vomit/diarrhoea)
	329.009.00240	AE inc intercurrent illness	AE (worsening depression)
	329.012.00226	AE inc intercurrent illness	AE (cardiac)
^r withdrawn during	CONTINUATION phase		

b) Imipramine group

<u>TAPER PHASE:</u> In total 56 patients completed the 8 week acute phase. Of these, 17 were discontinued at the 8 week visit. Proposed changes to the 'reasons for discontinuation' (if any) for these patients are given below:

Patient ID	SKB/GSK reason for discontinuation	Proposed reason for discontinuation	Notes
329.002.00098	Lack of Efficacy	Adverse Event (dry	Patient reported ongoing
		mouth)	'dry mouth' and 'tremor'.
			Note on pages 222 and
			226 showing a dose
			reduction/ down titration
			due to these AEs.
329.002.00244	Lack of Efficacy	PV (investigator)	Week 8 meds
			unavailable. (p250)
329.003.00090	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D)
329.003.00249	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D)
329.003.00314	PV non compliance	PV non compliance	
329.003.00317	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D)
329.005.00009	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D)
329.005.00117	Lack of Efficacy	Other (misc)	HAM-D scores indicate
			patient a 'Responder'
329.005.00255	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D)
329.005.00295	Adverse Event	Adverse Event	Wanted to kill parents
	(homicidal)	(homicidal)	
329.005.00332	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D)
329.005.00335	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D)
329.008.00187	Lack of Efficacy	AE (tachycardia)	Pt experiencing
			'persistent side effects'
			at time of withdrawal
			(p222), including pulse
			rate >110 for 2
			consecutive weeks.
329.009.00134	AE (tachycardia/ inc QT/ QTc)	AE (tachycardia/ inc QT/ QTc)	
329.009.00137	Other (ADHD)		'Team felt due to
		PV (investigator)	continuing ADHD
			symptoms pt needed
			treatment with stimulant'.
			Patient had 'severe'
			symptoms of ADHD at
			baseline (p69).
329.009.00199	PV non compliance	PV non compliance	77% and 71%
			compliance
329.009.00262	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D)

<u>CRF REVIEW</u>: Out of 40 reviewed CRFs, 3 changes to reasons for withdrawal were proposed:

	Patient ID	SKB/GSK Reason for withdrawal (as per Appendix G)	RIAT reason for withdrawal
'Reason for withdrawal' changes	329.002.00243	AE (accident/trauma)	AE (postural hypotension)
	329.004.00211	AE (dehydration)	AE (nausea/vomiting)
	329.012.00223	Lack of Efficacy	AE (suicidal gesture)

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A further 10 participants who were described in Appendix G as having withdrawn for 'Adverse event, including intercurrent illness' were identified. These were as follows:

		Patient ID		B/GSK reason for withdrawal per Appendix G)	RIA	T reason for withdrawal
Adverse events further defined	329.001	.00061		nc intercurrent	AE (widened QTc)
	329.001	.00066	AE ii illnes	nc intercurrent	AE (tachycardia)
	329.001	.00067	AE ii illnes	nc intercurrent	AE (postural hypotension)
	329.001	.00070	AE ii illnes	nc intercurrent	AE (tachycardia)
	329.003	.00073	AE ii illnes	nc intercurrent	AE (vomiting)
	329.004	.00014	AE ii illnes	nc intercurrent	AE (nausea)
	329.005	.00003	AE ii illnes	nc intercurrent	AE (tachycardia)
	329.004	.00215	AE ii illnes	nc intercurrent		hallucinations/ tmares)
	329.005	.00113	AE ii illnes	nc intercurrent	AĒ (suicidal)
	329.009	.00236	AE ii illnes	nc intercurrent	AE (dizziness/sedation)
	<u>:</u> In total ied at the	e 8 week visit.		d the 8 week act er of changes to	•	ase. Of these, 32 reason for
Patient ID		SKB/GSK reasor	eason for Proposed reason for		Notes	

c) Placebo group

Patient ID	SKB/GSK reason for discontinuation	Proposed reason for discontinuation	Notes
329.001.00069	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D)
329.001.00071	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D)
329.001.00207	Lack of Efficacy	Other (misc)	HAM-D scores indicate patient a 'Responder'
329.002.00049	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D)
329.002.00059	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D)
329.002.00246	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D)
329.003.00078	Lack of Efficacy	Other (misc)	HAM-D scores indicate patient a 'Responder'
329.003.00080	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D)
329.003.00085	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D)
329.003.00094	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D)
329.003.00252	Lack of Efficacy	Other (misc)	HAM-D scores indicate patient a 'Responder'
329.003.00315	Withdrawn consent	Withdrawn consent	
329.003.00316	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D)

329.004.00018	Withdrawn consent	Withdrawn consent	
329.005.00001	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D)
329.005.00120	Lack of Efficacy	Other (misc)	HAM-D scores indicate patient a 'Responder'
329.005.00253	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D)
329.005.00293	Other (no study meds)	PV (investigator)	
329.005.00331	Other (no study meds)	PV (investigator)	
329.006.00259	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D
329.007.00266	Other 'moved out of state'	Withdrawn consent	
329.007.00267	PV (positive drug test)	PV (positive drug test)	
329.009.00136	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D
329.009.00198	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D
329.009.00238	Lack of Efficacy	Other (misc)	HAM-D scores indicate patient a 'Responder'
329.009.00276	Lack of Efficacy	Other (misc)	HAM-D scores indicate patient a 'Responder'
329.009.00306	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D
329.009.00312	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D
329.010.00263	Withdrawn consent	Withdrawn consent	
329.010.00282	Other (no study meds)	PV (investigator)	
329.011.00285	Lack of Efficacy	Lack of Efficacy	Non-responder (Ham-D
329.011.00287	Withdrawn consent	Withdrawn consent	

<u>CRF REVIEW</u>: Out of 22 CRFs checked, 6 changes to reasons for withdrawal were proposed. A further 1 participant who was described in Appendix G as having withdrawn for 'Adverse event, including intercurrent illness' was identified. These were as follows:

	Patient ID	SKB/GSK reason for withdrawal (as per Appendix G)	RIAT reason for withdrawal
'Reason for withdrawal' changes	329.006.00037	PV non compliance (pt refused FU safety evaluation)	PV by investigator (screening error)
	329.007.00141	AE (angina)	PV by investigator (screening error)
	329.009.00129	Lack of Efficacy	AE (suicidal)
	329.009.00237	PV non compliance	PV by investigator (screening error)
	329.009.00327	Lack of Efficacy	AE (anxiety/depression worse)
	329.012.00217	AE (ambivalence about meds)	PV by investigator (screening error)
Adverse Events further defined	329.009.00330	AE inc intercurrent illness	AE (nausea/vomiting)

Four 'Protocol violations by investigator' were found in the placebo group:

Patient ID number	Inclusion criteria error
329.006.00037	Patient had a severity score HIGHER than 60 on the Clinical Global Assessment Scale (C-GAS). Reported as a PV in CRF query logs.
329.007.00141	Patient was withdrawn for ANGINA however angina was reported as a presenting condition at screening. CRF states comments on reason for withdrawal 'physician discretion due to comparator arm, vis-à-vis AE of chest pain.'
329.009.00237	ELIGIBILITY CHECKLIST 'Is patient currently in episode of Major Depression for at least 8 weeks?' 'NO' is checked – therefore not meeting criteria for MDD. In addition patient found to have SINUS BRADYCARDIA at screening.
329.012.217	Has been re-coded as 'PV by investigator'. Patient was 'extremely' suicidal at screening with no suicidal acts (see Kiddie- SADs & HAM-D). Patient showed 'worsening depression' during the study, was admitted to hospital during week 4 and given Zoloft. SKB/GSK reason for withdrawal was AE 'ambivalence towards meds'. Alternatively could argue was withdrawn for 'AE worsening depression'.

No similar Protocol violations 'by investigator' were found for patients in the paroxetine or imipramine groups during the audit.

Table xi – Suicidality at screening (Kiddie-SADS)

From the sample of reviewed CRFs, 27% of patients on placebo were reported as having severe (or extreme) suicidal ideation at screening, compared with 13% in the paroxetine group and 3% in imipramine (see part b of table xi).

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		Paroxetine N=31	Imipramine N=40	Placebo N=22
Suicidal Ideation	Current episode	2.9	2.7	3.1
	Last 2 weeks	2.2	2.3	2.6
Number of	Current episode	0.0	0.1	0.3
Suicidal Acts	Last 2 weeks	0.0	0.0	0.0
Seriousness of	Current episode	0.7	0.6	0.7
Suicidal acts	Last 2 weeks	0.5	0.5	0.5
Medical lethality	Current episode	0.6	0.5	0.6
of suicidal acts	Last 2 weeks	0.5	0.4	0.4
Number of non	Current episode	1.7	1.3	0.9
suicidal self harm	Last 2 weeks	1.3	1.1	0.7

a) Kiddie-SADS items 108 to 117 'SUICIDAL IDEATION' at screening visit (-1 week)

NB. Rating scale from 0 (n/a) to 7 (very extreme)

b) Kiddie-SADS item 108 'SUICIDAL IDEATION'- 'Current Episode' at screening (-1 week)

	Paroxetine N=31	Imipramine N=40	Placebo N=22
0 - N/A	0	0	0
1 - None	6 (19%)	7 (18%)	4 (18%)
2 - Min	7 (23%)	12 (30%)	4 (18%)
3 - Mild	7 (23%)	10 (25%)	6 (27%)
4 - Moderate	7 (23%)	10 (25%)	2 (9%)
5 + - Severe/EXTREME/ V EXTREME	4 (13%)	1 (3%)	6 (27%)

c) Kiddie-SADS item 109 'SUICIDAL IDEATION' – 'Last Two Weeks' at Screening (-1 week)

	Paroxetine N=31	Imipramine N=40	Placebo N=22
0 - N/A	0	0	0
1 - None	14 (45%)	13 (33%)	6 (27%)
2 - Min	7 (23%)	9 (23%)	5 (23%)
3 - Mild	3 (10%	12 (30%)	4 (18%)
4 - Moderate	5 (16%)	5 (13%)	5 (23%)
5 + - Severe/EXTREME/ V EXTREME	2 (6%)	1 (3%)	2 (9%)

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Table xii - Types of medication taken during i	month pr	rior to enrolment
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ATC Level 2 drug type grouping	Drug	Paroxetine (n=24)	Imipramine (n=31)	Placebo (n=26)
Analgesics	Acetylsalicylic acid (aspirin)	1	1	0
	cinnamedrine hydrochloride (Midol)	1	0	0
	paracetamol	10	9	4
	Paracetamol plus (Tylenol/Benadryl cold/flu)	10 2	1	1
	Codeine phosphate	0	1	0
	Diphenhydramine citrate (Exedrin PM)	0	1	0
	Mepyramine maleate (Pamprin)	0	0	1
	Analgesic unknown	0	1	1
-	Unknown Chinese medicine	0	1	0
	Total	14	15	7
Antibiotics	amoxicillin	1	2	4
Antibiotics				
	tetracycline	1	0	0
	erythromycin	0		2
	azithromycin	0 2	0 3	1 7
	Total	2 Z	3	1
Psychoanaleptics	Fluoxetine (Prozac)	1	0	0
	Sertraline	1	0	0
	Amitriptyline	0	0	1
	Total	2	0	1
			-	
Psycholeptics	diazepam	0	0	1
	Total	0	0	1
Opthalmologicals	Polymyxin b sulphate (eye drops)	1	0	0
	Sulfacetamide sodium	0	1	0
	Total	1	1	0
Systemic antihistamine	loratadine	1	0	0
Cysternic antinistannine	Total	1	0	0
	i Uldi	1		U
Antipruritics	Diphendydramine hydrochloride	1	0	2
	Total	1	0	2
	Dhanahart ''			
GI Antispas/ anticholin	Phenobarbital, hyocyamine, atropine (Donnatal)	1	0	0
	Total	1	0	0
Vaccines	Hepatitis B vaccine	1	0	0

	Total	1	0	0
			-	-
Nasal prep	Clemastine fumarate (Tavist-D)	1	0	0
	Total	1	0	0
Antianaemic prep	Vit B 12	0	1	0
	Total	0	1	0
Sex	Ethinylestradiol	0	3	1
hormones/stimulants	(Desogen28;			
	Loestrin or Ovcon)			
	Oral contraceptive	0	1	0
	unknown			
	Injectable	0	0	1
	contraceptive (NOS)			
	Total	0	4	2
Antimycotics	Ketoconazole	0	1	0
•	(Nizoral)	-		-
,	Total	0	1	0
		-	-	-
Anti inflammatory	ibuprofen	0	3	1
· · · · · · · · · · · · · · · · · · ·	Naproxen sodium	0	0	1
	oxaprozin	0	0	1
	Total	0	3	3
		•	-	•
Cough & cold prep	Dextromethorphan	0	1	0
	hydrobromide	Ŭ		Ū
	(Nyquil)			
	Guaifenesin	0	1	0
	(Robitussin)			-
	Total	0	2	0
Antidiarrhea	Loperamide	0	1	0
	hydrochloride		-	-
	Total	0	1	0
Antiasthmatics	salbutamol	0	0	1
	Total	0	0	1
		-		
Chemotherapeutics	Trimethoprim	0	0	1
	(Bactrim)			
	Total	0	0	1
		-		-
	l	0	0	1
Antiepileptics	clonazepam			



Table xiii - AEs occurring in patients taking other medication during month prior to enrolment vs. those taking no other medication:

a) Paroxetine group

0		Patients taking 'other Medications' during month pre-enrolment	Patients taking 'No Medication' during month pre-enrolment
SOC	MedDRA Term		
Gastrointestinal	Abdominal pain	0	0
Disorders	Constipation	0	7
	Cramps	3	11
	Diarrhea	1	11
	Dry Mouth	5	15
	Dyspepsia	1	7
	Food poisoning	1	0
	Gastroenteritis	0	0
	Nausea	8	29
	Reflux	1	0
	Retching	0	0
	Sores	0	0
	Stomatitis	0	0
	Ulcer	0	2
	Vomiting	2	9
	TOTAL	22	90
	10172		
Vascular	Hypertension	0	0
disorders	Migraine	0	1
	TOTAL	<u> </u>	1
			•
Nervous system	Bad taste	0	0
disorders	Convulsion	0	0
	Dystonia	4	1
	Headache	25	34
	Laryngitis dystonia	0	1
	Memory loss	0	0
	Myoclonus	3	1
	Paresthesia	0	1
		7	3
	Sore throat-dystonia		<u> </u>
	Tics	0	0
	Tinnitus Taathaaba duntania	-	
	Toothache dystonia	4	2 7
	Tremor	4	
	Vision blurred	0	2
	TOTAL	47	53
0	Fations		
General	Fatigue	6	9
disorders and	Fever	0	0
administration	Pain	0	0
site conditions	TOTAL	6	9
Psychiatric	Abnormal dreams	0	3
disorders	Aggravated depression	0	5
013010613		1	6
	Aggression		
	Agitation	0	0
	Akathisia	10	8

	Anorgasmia	1	0
	Anxiety	0	2
	Concentration low	1	1
	Depersonalisation	0	0
	Disinhibition	1	3
	Drug withdrawal	0	2
	syndrome		
	Hallucination	0	1
	Insomnia	4	12
	Paranoia	1	0
	Psychosis	0	1
	Somnolence	9	15
	Substance abuse	0	1
	Suicidal ideation/gesture	0	4
	Suicide attempt	2	6
	TOTAL	30	70
	TOTAL		10
Respiratory,	Coughing	4	2
thoracic and	Chest cold	2	9
mediastinal		0	9
disorders	Epistaxis		3
413014613	Dyspnea	0	
	Nasopharyngitis	2	1
	Respiratory disorder	0	0
	Rhinitis	4	6
	Sinusitis	3	5
	Sneezing 💊	0	0
	TOTAL	15	27
Cardiac	Atrial ectopic	0	0
disorders	AV block	0	1
	Bradycardia	0	0
	Bundle branch block	0	0
	Dizziness	14	21
	Chest pain	0	2
	ECG/ T-ECG abnormal	0	0
	Hot flush	0	0
	Postural hypotension	1	2
	QT interval prolonged	0	0
	Tachycardia	1	2
		16	28
	TOTAL	10	
Skin and	Acne	1	2
subcutaneous	Acne Dermatitis	1 0	1
subcutaneous	Acne Dermatitis Itchy	1	1 0
subcutaneous	Acne Dermatitis Itchy Rash	1 0	1 0 3
subcutaneous	Acne Dermatitis Itchy	1 0 0	1 0
subcutaneous	Acne Dermatitis Itchy Rash	1 0 0 1	1 0 3
Skin and subcutaneous tissue disorders	Acne Dermatitis Itchy Rash Scabies Sweating	1 0 0 1 0	1 0 3 0
subcutaneous	Acne Dermatitis Itchy Rash Scabies	1 0 0 1 0 1	1 0 3 0
subcutaneous	Acne Dermatitis Itchy Rash Scabies Sweating Syncope	1 0 0 1 0 1 0	1 0 3 0 1 0
subcutaneous tissue disorders	Acne Dermatitis Itchy Rash Scabies Sweating Syncope TOTAL	1 0 0 1 0 1 0 3	1 0 3 0 1 0 7
subcutaneous tissue disorders Renal and	Acne Dermatitis Itchy Rash Scabies Sweating Syncope TOTAL Albuminuria	1 0 0 1 0 1 0 3 0	1 0 3 0 1 0 7 0
subcutaneous tissue disorders Renal and urinary	Acne Dermatitis Itchy Rash Scabies Sweating Syncope TOTAL Albuminuria Cystitis	1 0 0 1 0 1 0 3 3 0 0 0	1 0 3 0 1 0 7 7 0 1
subcutaneous	Acne Dermatitis Itchy Rash Scabies Sweating Syncope TOTAL Albuminuria Cystitis Nocturia	1 0 0 1 0 1 0 3 0 0 0 0	1 0 3 0 1 0 7 0 1 0
subcutaneous tissue disorders Renal and urinary	Acne Dermatitis Itchy Rash Scabies Sweating Syncope TOTAL Albuminuria Cystitis Nocturia Polyuria	1 0 0 1 0 1 0 3 3 0 0 0 0 0 0	1 0 3 0 1 0 7 0 1 0 0 0 0
subcutaneous tissue disorders Renal and urinary	Acne Dermatitis Itchy Rash Scabies Sweating Syncope TOTAL Albuminuria Cystitis Nocturia	1 0 0 1 0 1 0 3 0 0 0 0	1 0 3 0 1 0 7 0 1 0

	Urinary retention	0	0
	UTI	0	1
	TOTAL	1	4
Immune system	Alleray	0	1
disorders	Allergy	0	-
alsorders	Urticaria TOTAL	0	1 2
	TOTAL	0	2
Endocrine	Amenorrhea	1	0
disorders	Hyperglycemia	0	0
	TOTAL	1	0
	TOTAL	•	U
Blood and	Anemia	0	1
lymphatic	Eosinophilia	0	0
system	Leukopenia	0	0
disorders	Lymphadenopathy	0	0
	Thrombocythemia	0	0
	TOTAL	0	1
		• 	•
Musculoskeletal	Arthralgia	1	0
and connective	Back pain	5	0
tissue disorders	Chills	0	0
	Myalgia	0	2
	TOTAL	6	2
Reproductive	Breast enlargement	0	1
system and	Dysmenorrhea	2	1
breast disorder	TOTAL	2	2
Infections	Herpes zoster	0	0
	Infection	2	2
	Otitis media	0	2
	TOTAL	2	4
	Conjunctivitie		
Eye disorders	Conjunctivitis	2	0
	Itchy eyes	1	1
	Mydriasis	0	0
	Photosensitivity	0	1
	Photopsia	0	0
	TOTAL	3	2
Metabolism and	Decreased appetite	3	6
nutrition	Increased appetite	0	4
disorders	Thirst	0	0
413014613		1	1
	Weight gain Weight loss	0	2
	TOTAL	4	13
	IUTAL	4	13
Ear and	Ear pain	0	1
labyrinth	TOTAL	0	1
disorders			
Injuries,	Head injury	0	0
poisoning and	Overdose	0	0
procedural	Trauma	0	3
procedural			
complications	TOTAL	0	3

Pregnancy,	Pregnancy	0	0
ouerperium and perinatal conditions	TOTAL	0	0
Surgical and	Tooth extraction	0	1
nedical procedures	TOTAL	0	1
otal number of AEs		158	320

b) Imipramine group

		Patients taking 'other Medications' during PRE ACUTE	Patients taking 'No Medication' during PRE ACUTE	
SOC	MedDRA Term			
			_	
Gastrointestinal	Abdominal pain	0	0	
disorders	Constipation	2	8	
	Cramps	1	10	
	Diarrhea	6	2	
	Dry Mouth	15	33	
	Dyspepsia	4	8	
	Food poisoning	0	0	
	Gastroenteritis	0	1	
	Nausea	14	29	
	Reflux	0	0	
	Retching	0	1	
	Sores	0	0	
	Stomatitis	0	2	
	Vomiting	6	5	
	TOTAL	48	99	
Vascular	Hypertension	0	2	
disorders	Migraine	1	0	
	TOTAL	1	2	
Nervous system	Bad taste	1	2	
disorders	Convulsion	1	0	
	Dystonia	2	5	
	Laryngitis dystonia	0	0	
	Headache	32	27	
	Memory loss	0	1	
	Myoclonus	0	1	
	Paresthesia	0	1	
	Sore throat-dystonia	7	5	
	Tics	0	1	
	Tinnitus	0	2	
	Toothache dystonia	0	0	
	Tremor	14	6	
	Vision blurred	1	4	
	TOTAL	58	55	
General	Fatigue	5	3	

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disorders and	Fever	0	2
administration	Pain	0	0
site conditions	TOTAL	5	5
Psychiatric	Abnormal dreams	1	4
disorders	Aggravated depression	2	1
	Aggression	1	2
	Agitation	0	1
	Akathisia	6	6
	Anorgasmia	0	0
	Anxiety	0	0
	Concentration low	1	0
	Depersonalisation	0	1
	Disinhibition	0	1
	Drug withdrawal	0	0
	syndrome		
	Hallucination	1	0
	Insomnia	3	11
	Paranoia	0	0
	Psychosis	0	0
	Somnolence	3	11
	Substance abuse	0	1
	Suicidal ideation/gesture	0	3
	Suicide attempt	1	2
	TOTAL	19	44
Respiratory,	Coughing	2	2
thoracic and	Chest cold	0	6
mediastinal	Epistaxis	0	1
disorders	Dyspnea	4	1
	Nasopharyngitis	0	0
	Respiratory disorder	0	0
	Rhinitis	1	2
	Sinusitis	2	1
	Sneezing	ō	0
	TOTAL	8	13
Cardiac	Atrial ectopic	0	0
disorders	Arrythmia	0	1
	AV block	1	1
	Bradycardia	0	1
	Bundle branch block	0	1
	Dizziness	19	38
	Chest pain	4	1
	ECG/ T-ECG abnormal	3	4
	Hot flush	3	3
	Postural hypotension	7	10
	QT interval prolonged	2	1
	Tachycardia	12	16
	TOTAL	51	77
Skin and	Acne	2	0
subcutaneous	Dermatitis	2	0
tissues disorders	Itchy	0	1
INSURAA'S	Rash	2	3
	Scabies	0	0

	Sweeting	E	n
	Sweating	5	2
	Syncope	0	0
	TOTAL	11	6
Renal and	Albuminuria	0	0
urinary	Cystitis	0	0
disorders	Nocturia	1	0
uisoruers			0
	Polyuria	0	1
	Pyuria	0	1
	Urinary abnormality	0	0
	Urinary retention	1	5
	UTI	0	0
	TOTAL	2	7
Immune system	Allergy	0	1
disorders	Urticaria	1	0
	TOTAL	1	1
		-	-
Endocrine	Amenorrhea	0	0
disorders	Hyperglycemia	1	0
uisoideis	TOTAL	1	0
		•	U
Blood and	Anomia	0	1
	Anemia	1	0
lymphatic disorders	Eosinophilia		_
aisoraers	Leukopenia	2	0
	Lymphadenopathy	0	0
	Thrombocythemia	0	0
	TOTAL	3	1
Musculoskeletal	Arthralgia	1	0
and connective	Back pain	0	2
tissue disorders	Chills	0	3
		1	0
	Myalgia TOTAL	2	5
	TOTAL	2	5
Reproductive	Broast onlargomont	0	0
	Breast enlargement		
system and breast disorder	Dysmenorrhea	2 2 2	2 2
breast disorder	TOTAL	2	2
Infections	Herpes zoster	0	0
	Infection	2	1
	Otitis media	1	1
	TOTAL	3	2
		<u> </u>	_
Eye disorders	Conjunctivitis	0	0
-	Itchy eyes	0	1
	Mydriasis	1	0
	Photosensitivity	1	0
	Photopsia	0	1
	TOTAL	2	2
Metabolism and	Decreased appetite	1	1
nutrition	Increased appetite	0	1
disorders	Thirst	0	2
		0	0
	vveight gain		
	Weight gain Weight loss		
	Weight gain Weight loss TOTAL	1 2	0 4

Ear and	Ear pain	0	0
labyrinth disorders	TOTAL	0	0
Injuries,	Head injury	0	1
poisoning and	Overdose	0	1
procedural	Trauma	0	1
complications	TOTAL	0	3
	-		
Pregnancy,	Pregnancy	0	2
puerperium and perinatal conditions	TOTAL	0	2
Surgical and	Tooth extraction	0	2
medical Procedures	TOTAL	0	2 2
Total number of AEs	2.	220	332

c) Placebo group

Surgical and	TUUITEXITACIUIT	0	۷ ۷	
medical	TOTAL	0	2	
Procedures				
Total number of AEs		220	332	
c) Placebo g	roup			
		Patients taking 'other Medications' during PRE ACUTE	Patients taking 'No Medication' during PRE ACUTE	
SOC	MedDRA Term			
Gastrointestinal	Abdominal pain	2	0	
disorders	Constipation	1	3	
	Cramps	3	11	
	Diarrhea	6	3	
	Dry Mouth	4	8	
	Dyspepsia	0	4	
	Food poisoning	0	1	
	Gastroenteritis	0	0	
	Nausea	14	13	
	Reflux	0	0	
	Retching	0	0	
	Sores	0	1	
	Stomatitis	0	0	
	Vomiting	2	3	
	TOTAL	32	47	
Vascular	Hypertension	0	0	
disorders	Migraine	0	0	
	TOTAL	0	0	
Nervous system	Bad taste	0	0	
disorders	Convulsion	0	0	
	Dystonia	2	1	
	Headache	29	27	
	Laryngitis dystonia	0	0	
	Memory loss	0	0	
	Myoclonus	0	0	

	Paresthesia	0	0
		3	8
	Sore throat-dystonia Tics		0 0
		0	
	Tinnitus	0	0
	Toothache dystonia	1	2
	Tremor	1	1
	Vision blurred	2	0
	TOTAL	38	39
General	Fatigue	3	8
disorders and	Fever	1	3
administration	Pain	1	1
site conditions	TOTAL	5	12
_			
Psychiatric	Abnormal dreams	0	2
disorders	Aggravated depression	1	1
	Aggression	0	0
	Agitation	0	0
	Akathisia	2	6
	Anorgasmia	0	0
	Anxiety	1	0
	Concentration low	0	0
	Depersonalisation	1	0
	Disinhibition	0	2
	Drug withdrawal	0 0	0
	syndrome	Ŭ	5
	Hallucination	0	0
	Insomnia	2	2
	Paranoia	0	0
	Psychosis	0	0
	Somnolence	1	2
		0	0
	Substance abuse		
	Suicidal ideation/gesture	1	0
	Suicide attempt	0	0
	TOTAL	9	15
Respiratory,	Couching	1	5
thoracic and	Coughing	1 8	6
mediastinal	Chest cold		
disorders	Epistaxis	0	0
uisoruers	Dyspnea	0	2
	Nasopharyngitis	0	1
	Respiratory disorder	1	1
	Rhinitis	2	3
	Sinusitis	5	3
	Sneezing	0	1
	TOTAL	17	22
Candica		4	
Cardiac	Atrial ectopic	1	0
disorders	AV block	1	1
	Bradycardia	1	0
	Bundle branch block	0	1
	Dizziness	5	13
	Chest pain	1	1
	ECG/ T-ECG abnormal	2	0
	Hot flush	1	1
	Arrhythmia	0	1
	Postural hypotension		0

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	QT interval prolonged	0	0
	Tachycardia	0	1
	TOTAL	13	19
	IOTAL	10	
Skin and	Acne	1	0
subcutaneous	Dermatitis	0	1
tissue disorders	Itchy	1	0
	Rash	3	1
			-
	Scabies	0	1
	Sweating	1	0
	Syncope	0	1
	TOTAL	6	4
Denaland	Albuminuria		4
Renal and		0	4
urinary	Cystitis	0	0
disorders	Nocturia	0	0
	Polyuria	0	0
	Pyuria	0	0
	Urinary abnormality	0	0
	Urinary retention	0	0
	UTI	0	0
	TOTAL	0	4
		•	
Immune system	Allergy	3	0
disorders	Urticaria	0	0
	TOTAL	3	0
Endocrine	Amenorrhea	0	0
disorders	Hyperglycemia	0	1
	TOTAL	0	1
Blood and	Anemia	0	0
lymphatic	Eosinophilia	0	1
disorders	Leukopenia	0	0
	Lymphadenopathy	1	0
	Thrombocythemia	0	1
	TOTAL	1	2
Musculoskeletal	5	2	2
and connective	Back pain	3	7
tissue disorders	Chills	0	0
	Myalgia	1	1
	TOTAL	6	10
Reproductive	Breast enlargement	0	0
system and	Dysmenorrhea	2	2
breast disorder	TOTAL	2	2
h. f			
Infections	Herpes zoster	0	1
	Infection	1	2
	Otitis media	0	0
	TOTAL	1	3
	Operation of the 101-		
Eye disorders	Conjunctivitis	0	1
	Itchy eyes Mydriasis	0	0
		0	0

	Photosensitivity	0	0
	Photopsia	0	0
	TOTAL	0	1
	TOTAL	0	1
Metabolism and	Decreased appetite	1	3
nutrition	Increased appetite	0	1
disorders	Thirst	2	1
	Weight gain	0	0
	Weight loss	1	1
	TOTAL	4	6
Ear and	Ear pain	0	0
labyrinth	TOTAL	0	0
disorders			
Injuries,	Head injury	0	0
poisoning and	Overdose	0	0
procedural	Trauma	0	6
complications	TOTAL	0	6
Pregnancy,	Pregnancy	0	0
puerperium and perinatal conditions	TOTAL	0	0
Surgical and	Tooth extraction	0	0
medical procedures	TOTAL	0	0
Total number of AEs		137	193

Table xiv - Attrition of patients by week

Treatment Efficacy		Efficacy Status Week								
group [randomised]	Status	1	2	3	4	5	6	7	8	
Iminromino	04 [05]	total	94	90	81	77	74	64	58	56
Impramme	Imipramine 94 [95]	data	91	88	77	69	68	63	57	56
Derevetine	00 (03)	total	90	84	80	78	76	73	71	67
Paroxetine 90 [93]	90 [93]	data	88	81	77	76	72	72	68	67
Disastra	07 [07]	total	87	85	79	77	74	68	66	66
Placebo	87 [87]	data	84	82	75	73	70	66	63	66

Four of the randomised patients had no post-treatment visits [1 Imipramine, 3 Paroxetine].

"total" is the number of patients in the study for each week. ! number with data tor exe...

"data" is the number with data for each week.

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	CSR Appendix D Adve	Patient Data L erse Events	istings of				
Patient ID	Verbatim terms	SKB/GSK ADECS preferred term	Day AE occurred		MedDRA based on CSR	Additional information from CRF	MedDRA based on CRF
Parox	etine						
Case 1: 329.002. 00058	Intentional overdose (Tylenol overdose took 80 pills)	Emotional lability	122 (during taper)	 Appendix G: Reason for withdrawal = Adverse Event (AE) intercurrent illness (intentional overdose). SAE narrative: The patient was hospitalized on 19-Jan-95 after taking 80 Tylenol tablets The investigator considered the event to be moderately severe. The patient was withdrawn from the study due to the overdose. 	Suicide attempt/ self harm	-	Suicide attempt/ self harm
Case 2: 329.002. 00245	Tylenol overdose (intentional)	Emotional lability	14	- Appendix G: AE classed as severe. - Patient withdrawn: AE intercurrent illness	Suicide attempt/ self harm	 p141 Adverse Event Report Overdose on 27-28 Tylenol pills. Tylenol overdose. {intentional} p175 Adverse experience Tylenol overdose - Intentional 	Suicide attempt/ self harm
Case 3: 329.003. 00250	3.1. Overdose intentional	Emotional lability	37	- Appendix G: SAE rated as moderate intensity. Patient continued in study. - SAE narrative: The patient exceeded compliance from 19APR96 through 09May96. The overdose was rated by the investigator as serious, moderate in intensity and unrelated to the patient's use of the study drug.	Suicide attempt/ self harm	- h. O.,	Suicide attempt/ self harm
	3.2. Overdose	Emotional	75 (during	- Patient's 2 nd overdose during study.	Suicide	- p267 - Extra note written on	Suicide

 $\begin{array}{c} 25\\ 26\\ 27\\ 28\\ 30\\ 31\\ 32\\ 33\\ 34\\ 35\\ 36\\ 37\\ 38\\ 39\\ 40 \end{array}$

	intentional	lability	taper)	 Appendix G: Severe AE. Patient withdrawn for Adverse Event, including intercurrent illness - Pt took overdose and was hospitalized. SAE narrative: The patient took a 20- tablet overdose of study medication. She was taken to the emergency room by her sisterthe patient was discharged from the general hospital and admitted to psychiatric unit as she remained suicidal. 	attempt/ self harm	Adverse Experience log: Hospitalisation resulting from suicide attempt and Pt took overdose 'intentional'. - Series of query log* entries whether to include suicidal ideation as another AE reason for hospitalisation. - 'Hospitalisation' removed as an AE; suicidal ideation not included. - p335 Query log states: We asked the site to clarify if pt was hosp. for 'Suicidal ideation'. They answered that hosp. should show possibly related to study med. - Appendix D - AE is logged as 'UNRELATED'.	attempt/ self harm
Case 4: 329.003. 00313	4.1. Superficial cuts - risk to self	Emotional lability	12	 Appendix G: classed as SAE, severe. Reason for withdrawal= AE intercurrent illness - Patient was dropped due to hospitalization i.e. adverse experience. Patient also auditory hallucinations on Day 12 (severe). SAE narrative: Patient hospitalised for psychosis [no previous history of psychosis] with auditory hallucinations and superficial cuts. A voice commanded him to hurt himself. 	Suicide attempt/ self harm (and psychosis – missing from Appendix D)	 Week 2 visit a serious attempt at suicide was reported on the Hamilton rating scale and it was noted that the patient reported cutting himself 3 times over a period of 6 days. p.182: X experiencing auditory hallucinations. A voice commands him to hurt himself. He has cut himself in response to the voice on three occasions in the past six days. On the back of his hand he has carved a cross with small adorning cuts. On his forearm he has made 10-15 cuts, each about six inches long. On his upper arm are three additional cuts. 	Suicide attempt/ self harm

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	Co					p120 week 2 HAM-D item 3 suicide: Attempts at suicide (any serious attempt rates 4) - patient rated 4.	
	4.2. missing		12	- SAE narrative: The voice also commanded the patient to jump off the roof. Although the patient went to the roof he did not jump. It was determined that the patient was a risk to himself.	Suicidal ideation	-	Suicida ideatio
Case 5:	5.1. Self Mutilation	Emotional lability	31	- An increase in suicidal ideation reported on HAM-D suicide ideas or gesture around week 5, during which time the patient is also noted to be self harming 'self mutilation'.	Suicide attempt/ self harm	-	Suicid attemp self har
329.004. 00015	5.2. Suicidal ideation	Emotional lability	31	- See above. No SAE narrative	-	 p502 & 512 query log 'Spends most of day in bed without eating'. Query log entries: 'Loss of appetite' (p.502) and 'weight loss' (p511) noted. These additional AEs were noted. 	Suicid: ideatic
Case 6: 329.006. 00038	Attempted suicide (intentional)	Emotional lability	57	 Appendix G: AE Severe, patient withdrawn: Several personal crisis led patient to overdose on several medications including study medications on 12APR95 - move to withdraw. SAE narrative: Following a disagreement with her mother, the patient intentionally overdosed. 	Suicide attempt/ self harm	 p193 Week 8 paperwork not completed. Note on file: Pt attempted suicide this day - in emergency room facilities. 'GI complaints' & 'Nausea' - coded as part of suicide attempt by SKB/GSK. 'Weight loss' and 'fatigue' also added during our CRF check. 	Suicid attem self ha
Case 7: 329.006. 00039	7.1. Superficial scratches	Trauma	18	 Appendix G: reason for withdrawal: Lack of Efficacy Day 92. AE coded as Trauma – duration of 12 days; Number of episodes reported as CONTINUOUS. Other adverse events recorded in Appendix D: Day 43 = asthenia, more 	Suicide attempt/ self harm	 Within 2 weeks of starting the acute phase the patient was reported as more tired and more sick in CRF. There was also a hand written note under 'obvious retardation at 	Suicid attemp self ha

	Con			depressed, irritable/ nervousness, myoclonus (grimacing face with blinking eyes).		interview': <i>softness of speech</i> . All these AEs were missing from Appendix D.	
			n 8	No SAE narrative		 -At the week 6 visit a number of additional adverse events were noted – fatigue, more angry (missing from Appendix D), more depressed, irritable mood, grimacing face and blinky eyes (which were classed as myoclonus in Appendix D but recorded separately under MedDRA coding). - Kiddie SADS scores: Week 4: 'Non-suicidal acts of self harm in last 2 weeks' = 4 (moderate). 	
	7.2. missing	-		See above		HAM-D weeks 5 & 6 – score '3' - 'suicidal ideas or gesture' The final visit notes described the patient as having 'headaches- more severe than usual' – these were recorded in Appendix D; worse general/overall feeling depressed with a HAM-D score of 24. Adverse event of worsening depression – missing from Appendix D.	Suicid ideatio
Case 8: 329.001. 0065	8.1. Needed 6 stitches to hand after breaking pictures (due to anger) resulted in hospitalisation to prevent aggression against self	Hostility	14	-Other adverse event included on day 14: Worsening of depression, hospitalised (Severe, possibly related, stopped from study). - From SAE narrative: 'the patient became very angryHis anger subsided, but he expressed hopelessness and possible suicidal thoughts. The patient was hospitalized due to his severe anger	Suicidal ideation (& Aggressi on)	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Suicic ideati (& Aggres n)

	Con			outburst and a worsening of his depression In the opinion of the investigator, the worsening of depression was possibly related to study medication.'			
	8.2 missing	-	14	- Appendix G: reason for withdrawal: Adverse Event, including intercurrent Needed psychiatric hospitalisation for increased aggression against self.	_	 -CRF study conclusion form reports hospitalisation for <i>increased</i> <i>aggression against self</i>. -p108 Adverse experience: <i>needed 6</i> <i>stitches to hand</i>. <i>Aggression to self</i>. -p.136 Query log reports: <i>Telephone</i> <i>report also indicates a symptom of</i> <i>increased self harm</i>. - Adverse events of 'self harm' 'hopelessness' 'inc anger' suicidal ideation' combined as HOSTILITY, but coded separately under MedDRA coding. - Discussion in the CRF query log of the patient needing stitches to their hand following a severe angry <i>outburst</i> and <i>increased self `harm</i>. 	Suicide attempt/ Self Harm
Case 9: 329.005. 00333	Suicidal ideation	Emotional lability	37	 Appendix G: Reason for withdrawal 'Lack of Efficacy' (day 33). Severe SAE. Other adverse events included: abnormal dreams (day 19) for 11 days. SAE narrative: 'patient did not sleep well all night, cried and experienced suicidal intentions. She was subsequently hospitalized for severe suicidal ideation.' 	Suicidal ideation	-p198 & 224: Suicidal ideation. The pt had Prozac 5mg x1 pd given for MDD. - 'Depression worsening' added as additional AE. -p174 Adverse Experience log: Suicidal Ideation.	Suicidal ideation
Case 10: 329.002. 00106	Oppositional Defiant Disorder	Hostility	51	 Appendix G records this as a severe SAE. SAE narrative: patient was hospitalised after an argument. She had become combative with her mother and had 	Suicidal ideation/ gesture (& Aggressi	-p178: no week 8 visit due to psychiatric hospitalization. -p 185 Zoloft added for 'depression' following hospitalization for ODD.	Suicidal ideation/ gesture (& Aggressio

	C			threatened suicideseveral days before her hospitalisation she had not taken her study medication.	on)		n) & Depressio n
Imipra	amine				-	-	
Case 1: 329.005. 00295	Suicidal threat with scissors	Emotional lability	23	 Appendix G: Adverse Event entered 'suicidal threat' = moderate and 'probably related'. Patient withdrawn on Day 53. Reason for withdrawal: AE intercurrent illness - investigators decision to discontinue study because pt threatened to kill parents. This event coded as 'hostility' severe; probably related. 	Suicide attempt/ self harm	Kiddie-SADS Week 4: suicidal ideation increased to 3.	Suicide attempt/ self harm
	2.1. Suicidal ideation	Fractional	26	Appendix G: suicidal ideation coded as moderate lasting 10 days.	Suicide attempt/ self harm	-p193 SAE: Patient admitted to hospital for 3 days by precaution b/c she was more depressed with self mutilation and suicidal ideation. Approx wk 4-5	Suicidal ideation
Case 2: 329.012. 00223	2.2. Self mutilation	Emotional lability	31	 Appendix G: self mutilation coded as moderate, continuous, and classed as a SAE. SAE narrative: 'the patient experienced depression and self mutilation for which she was hospitalized'. 	Suicide attempt/ self harm	See above.	Suicide attempt/ self harm
Case 3:	3.1. Suicidal ideation	Emotional lability	32	Appendix G: Patient withdrawn on day 32. Reason: Adverse Event including intercurrent illness.	Suicidal ideation	See below.	Suicidal ideation
Case 3: 329.005. 00113	3.2. missing	-	32	- SAE narrative: 'Study medication was stopped on day 32 because of suicidal ideation with gesture considered to be of moderate severity.'	Suicidal gesture	- Week 4 note on p191 of CRF: Pt suicidal and went to ER. - p190 - SAE for suicidal ideation and gesture started on 02Mar95.	Suicidal gesture
Case 4: 329.010. 00279	"Strange thoughts"	Thinking abnormal	33	No SAE narrative	Suicidal ideation	No clarification given re: strange thoughts in query log 'pt and mother can't remember'	Suicidal ideation

Case 1: 329.001. 00123	Suicidal thoughts	Emotional lability	46	Appendix G: adverse event classed as severe, related, a SAE. Study drug was stopped and patient was withdrawn. Other adverse events noted = Worsening of depression day 46 (severe, related, SAE, stopped) - Patient withdrawn DAY 49 'Lack of Efficacy'. - SAE narrative: 'Approximately 6 weeks after commencing study 329, the patient experienced severe worsening of depression with severe suicidal thoughts'.	Suicidal ideation	-	Suicidal ideation
Case 2:						Acute phase conclusion: Patient doing	Suicidal
329.009.	missing	-		-	-	some what worse. Mother worried	ideation
00129	 ncluded 'QUERIES AND					about increase in death wishes.	
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Coding Challenges

Paroxetine case 7 (329.006.00039), who had a severe (but not serious) Adverse Event, was our most ambiguous case. As with all of our coding, the coder was blind to the treatment allocation.

Within two weeks of starting the acute phase, this patient was reported as 'more tired' and 'more sick'. There was also an additional handwritten note, 'softness of speech', beside item 8 of the HAM-D, which was rated as 'Obvious retardation at interview'. These were not coded as Adverse Events in Clinical Study Report Appendix D.

During week 2, the patient was recorded under Adverse Events as being 'more depressed' and having 'superficial scratches'. These were coded by SKB/GSK as 'depression' and 'trauma'. We recoded them as 'aggravated depression' and, initially, 'self harm/suicide attempt'.

However, self-harm and suicide attempt are different phenomena. It may or may not be possible to resolve whether self-harm or suicide attempt is the correct coding.

The patient discontinued treatment during the continuation phase. Had she been deemed to have discontinued because of an Adverse Event, there would have been a patient narrative that might have made it clearer which of these options was more likely; however, because she was deemed to have discontinued for lack of efficacy, there is no patient narrative.

At the week 6 visit, a number of Adverse Events were noted – 'fatigue', 'more angry' (missing from Appendix D), 'more depressed', 'irritable mood', 'grimacing face' and 'blinking eyes' (the last two were coded together as myoclonus by SKB/GSK but were recoded separately by us).

In spite of the self-harm being recorded as 'superficial scratches', we opted for 'suicide attempt' as the correct coding for what SKB/GSK had coded as trauma at week 2 (see above). This was because the patient had an increase in HAM-D suicide item score from 1 or 2 at screening, baseline and the initial weeks of the study to 3 (suicide idea or gesture) in weeks 5 & 6, along with being more angry, depressed and irritable. There are arguments for having coded the event differently; choosing the more severe of the alternatives brings to the fore any possible adverse effects from medication or placebo.

At the final visit, notes were made in a section headed 'adverse experiences', describing the patient as having 'headaches – more severe than usual' and 'Worse general/overall feeling depressed; HAM-D score of 24'.

'Worsening Depression' was not recorded as an Adverse Event in Appendix D. The patient was noted as 'OUT OF STUDY' and designated as discontinuation for 'lack of efficacy'. We recoded this as 'Adverse Event (depression worsening)'. Had SKB/GSK coded this way, the patient would have required a patient narrative.

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