- 1 The Effectiveness of Psychodynamic Therapy in an NHS Psychotherapy Service: Outcomes for
- 2 Service-users with Complex Presentations
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22 Abstract

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Introduction: Complex and enduring mental health problems require greater treatment resources, usually in the form of multidisciplinary support, including providing psychological therapies. This paper reports on an NHS, tertiary-level specialist psychotherapy service offering Psychodynamic therapies with longer-term, exploratory transdiagnostic approaches to support complexity and sustained personality functioning.

Method: This paper adopts a naturalistic study design evaluating the effectiveness of Psychodynamic therapy using pre- and post-outcomes across a 10-year period. A total of n=474 participants self-report pre- and post-outcome measures were used as the marker of effectiveness along with therapist assessments during intake and engagement.

33 Results: The findings showed that Psychodynamic therapy was effective in reducing psychological 34 distress based on service-user self-report and therapist assessments. While intake scores varied by 35 socio-demographic factors, the rate of change across most groups was similar. There were several 36 limitations relating to data quality and completeness which reflect the naturalistic design.

Discussion: Despite the limits of a naturalistic design, this study provides evidence of support for the
 place of Psychodynamic therapies within NHS mental health care, catering to those with complex and
 enduring mental health problems.

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41 Keywords: Psychodynamic therapy, Practice-based evidence, Naturalistic study design, Clinical
42 practice, Complex mental health problems

44 Introduction

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46 Mental health problems exist along a continuum, ranging from common to complex conditions 47 which need different treatments to accommodate symptom severities, service-user choice, and 48 available resources. Individuals may experience brief episodic issues while others experience longer, 49 multiple, and compounding problems that require ongoing engagement and intensive interventions.

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51 Research shows around 4-15% of the population in England meets the diagnostic criteria for a 52 personality disorder (McManus et al., 2016). Studies find that approximately 30-50% of those with 53 severe mental health problems report co-occurring substance use (EMCDDA, 2015; Lai et al., 2015) 54 and approximately 50% of those diagnosed with psychosis or schizophrenia will require substantial 55 and ongoing support, with around 15% experiencing a chronic course with limited improvement, and 56 10% dying by suicide (Santesteban-Echarri et al., 2017). Other statistics estimate severe mental health 57 problems have increased from 7.9% in 2000 to 9.3% in 2014 (Stansfeld et al., 2014). Chronic conditions 58 require high resources over an individual's lifetime including hospitalisation, medication use, and 59 managing maladaptive behaviours (Jin & Mosweu, 2017; Naylor et al., 2012). Frequent service 60 utilisation risks further distress by repeating past traumas and lost autonomy (NHS England, 2019). 61 Socioeconomically disadvantaged groups are at increased risk of poor mental health which can worsen 62 social conditions and thus produce an ongoing cycle (Kivimäki et al., 2020). Severe and chronic 63 problems are exacerbated by other issues including family difficulties, stress, physical health problems, 64 medication compliance, and substance use (Jin & Mosweu, 2017; Naylor et al., 2012), presenting 65 further challenges for support. Accordingly, psychotherapeutic delivery requires a longer-term, 66 intensive focus, alongside multifaceted and multidisciplinary, preferably community-based, 67 approaches (NHS England, 2019; NICE, 2022).

Psychological therapies in the NHS

Within NHS England (2019), most adults with mental health problems (around 90%) are supported 71 72 in primary care. These include common mental health problems including mild-to-moderate depression and anxiety disorders. Secondary care community mental health services play a role in 73 74 delivering care for adults and older adults for those with moderate-to-severe mental health needs, 75 including providing access to psychological therapies. Services use an over-arching stepped-care 76 approach where those with the most clinical need are stepped-up to longer-term, multidisciplinary, 77 and intense interventions. The NHS Long-Term Plan (NHS England, 2019) is committed to offering 78 individuals greater choice and control over their care, and offering specialist support for those with 79 complex, severe, and enduring conditions. NICE (2022) guidelines recommend a range of 80 psychotherapeutic interventions, including short-term psychodynamic therapy for depression in those 81 seeking insight-oriented and affect-focused interventions. Evidence suggests short-term therapies are 82 not sufficient for those with complex conditions, including those with personality functioning 83 difficulties, requiring longer-term approaches (Leichsenring et al., 2013; Lindfors et al., 2015). To 84 optimise a psychotherapy's potential, interventions ought to adapt and accommodate the unique presentations of service-users including complexity, and long-standing and entrenched difficulties 85

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(NHS England, 2019; NICE, 2022).

Longer-term therapies are recommended by NICE (2022) as an alternative for those who have not responded to other interventions like CBT. The dose-effect literature suggests the longer a service-user remains engaged in therapy, the higher their chances of improvement (Robinson et al., 2020). Those with complex presentations may benefit from longer-term work to enact a larger dose-effect towards stabilisation. Longer-term psychodynamic therapies appear a worthwhile choice for enabling sustained personality functioning improvements (Lindfors et al., 2015), making them a viable option for those with complex and enduring difficulties.

96 Psychodynamic therapy

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98 Psychodynamic therapy is a specialist psychological intervention focused on relational factors, 99 childhood experiences, and attachment and defensive patterns relevant to psychological distress 100 (Waddell, 2002). The focus on relating patterns is interpreted through transference and 101 countertransference to inform and understand the potential redirection and impact of emotional 102 states. Through open and exploratory approaches, the model aims to enable service-users to become 103 aware of painful and disturbing feelings and the defences to manage them (e.g., splitting, dissociation, 104 projective identification). It encourages practitioners to allow themselves to be emotionally stirred to attune to a service-user's emotional state and dynamically contain and process experiences through 105 106 which the service-user comes to know themselves fully and tolerate previously unbearable affects and 107 states of mind (Bion, 1963).

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109 Psychodynamic therapies are positioned as a valuable framework for supporting those with 110 complex conditions based on the idea that traumatic relational patterns are founded on 111 developmentally organised psychic structures (Lindfors et al., 2015). Psychodynamic therapy focuses on past experiences and how they can exist in the present, influencing interpersonal patterns and 112 psychological and emotional difficulties. There is evidence of severe adverse childhood experiences in 113 114 those with complex mental health problems (Bellis et al., 2014) showing a potentially valuable role for 115 psychodynamic approaches. Systematic reviews have demonstrated the effectiveness of 116 psychodynamic therapies for personality disorders (Haskayne et al., 2014; Leichsenring et al., 2013; 117 Lindfors et al., 2015). Ingrained personality difficulties can be more challenging to work with and show 118 worse outcomes than episodic presentations and appear to benefit from longer-term relationally-119 focused approaches (Fonagy et al., 2015; Rost et al., 2019).

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121 The service reported in this paper offers time-limited (up-to-two-years) psychodynamic therapy to 122 those with complex and enduring conditions. Service-users are informed at the outset that these 123 therapies can last between one-to-two years. This limit is determined by service resources, the need 124 to set a therapeutic frame, and ensuring individuals are fully informed. Given the long-term nature of 125 psychodynamic therapies, there are challenges for research and evaluation. The model's emphasis on 126 transdiagnostic presentations and general psychological functioning means focusing on single 'pure' 127 diagnostic groups, which is well-suited to controlled trial methodologies, is not clear cut. There are ongoing debates about the appropriateness of how NICE reviews psychotherapeutic interventions and 128 129 the nature of psychodynamic therapies which may not lend themselves to Randomised Controlled Trial 130 (RCT) methodologies but to naturalistic approaches (Mollon, 2009). Service-users with complex 131 emotional needs may respond in challenging ways to the therapeutic process, including reassurance 132 seeking, criticising, and straining personal and professional boundaries, each of which can take an 133 emotional toll. Research indicates the presence of differential treatment effects based on personality 134 traits and interpersonal styles, including the need for validation, dependency, and managing self-135 criticism (Rost et al., 2019).

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The literature shows that long-term psychodynamic therapies are useful for improving treatmentresistant depression (Fonagy et al., 2015) and may offer an alternative for those with complex conditions for which primary NICE-recommended therapies decrease in effectiveness (Taylor et al., 2012). Greater clinical complexity is associated with other research challenges including a greater likelihood of premature disengagement and confounding factors including difficult social circumstances (Swift & Greenberg, 2015). The remit of longer-term psychodynamic therapies to treat these groups therefore creates a disadvantage when attempting to assess their effectiveness.

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145 Practice-based evidence

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Recent decades have seen a shift towards practice-based evidence to bridge the implementation challenges in translating evidence-based treatments into routine clinical practice, and to acquire more ecologically valid and clinically relevant findings (Barkham et al., 2010; Wakefield et al., 2021). Whereas traditional questions of efficacy are suited to controlled methodologies, effectiveness and practice research considers how and which interventions are provided to service-users within clinical systems. These approaches for evaluating interventions are not considered opposing but complementary (Barkham et al., 2010).

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155 Practice research typically involves a bottom-up approach, involving a range of presentations from routine practice that might otherwise be excluded from controlled trials. Such an approach is beneficial 156 for complex presentations and multiple conditions because it acknowledges a multifaceted profile as 157 158 opposed to focusing on primary diagnoses, therefore more closely reflecting the realities of complexity 159 in clinical practice. Practice research enhances the representation of participants for which controlled studies of complex conditions are restricted. As outlined earlier, the debates around the best-suited 160 161 methods for evaluating psychotherapy effectiveness, especially longer forms and exploratory models, 162 necessitate the need for practice research. Accordingly, practice-based evidence of NHS 163 psychodynamic therapies represents an appropriate and valuable source of knowledge about a 164 model's effectiveness for routine clinical samples of complexity. Although such an approach reduces 165 internal validity due to the number of confounding factors, it does provide an account of therapeutic 166 activity within a particular service and setting, delivering other valuable insights.

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168 A common practice research approach involves analysing service datasets from routine clinical 169 measurements. Obtaining routine clinical data has been enhanced in recent years through the

advancements and implementation of outcome systems which log psychometric data and produce
datasets about service quality and intervention effectiveness within a specific service context. This
paper aims to:

- Assess the effectiveness of psychodynamic therapies within a West Midlands NHS mental
 health service using routine clinical data.
- Use these findings to develop an understanding of complex presentations within a routine
 clinical frame of reference and assess the suitability of psychodynamic therapies.

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178 Method

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180 Service model

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182 The service is an NHS specialist outpatient psychotherapeutic service providing psychodynamic-183 based interventions, including individual and group formats. It offers assessment, interventions, and 184 consultation for adults aged 25 and over experiencing complex mental health problems who have 185 already tried other secondary care psychotherapeutic interventions. It accepts referrals from various 186 sources in community mental health, usually secondary care professionals, who deem those on their 187 caseload as benefitting from a longer-term, psychodynamic approach treating underlying trauma and 188 relational difficulties. Referrals remain under the remit of community mental health care teams for the 189 duration of their engagement and therapies with the service.

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191 Referrals are screened by a team of specialists working for the service who review the case 192 materials and jointly decide whether to offer an assessment. The eligibility criteria considers whether 193 the service-user can commit and work collaboratively in therapy, if they have engaged in therapies 194 previously, and if there are support networks in place for the containment of therapy given the focus on painful emotional material. The service is not diagnosis specific and is open to those with complex conditions and previous difficulties with engagement, treatment-resistant disorders, complex trauma and attachment issues, personality disorders, previous psychotic episodes that are in remission and not active, and those with some alcohol and/or drug problems that are managed appropriately by their wider healthcare service.

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201 For those allocated an assessment, service-users undergo a three-to-four-session assessment 202 process to collaboratively explore the reasons for their referral and jointly agree with the service-user 203 and in collaboration with a supervising team an appropriate intervention. For those for whom the 204 interventions appear unsuitable, alternative options are discussed, and they are referred to their 205 supporting clinical team. Those deemed likely to benefit are placed on a waiting list to start therapy 206 subject to service-user preference and clinical need and availability. The waiting time from assessment 207 decision to starting therapy averages around 6-months. The practitioners delivering psychodynamic 208 therapies range from trainees to specialists with each supported with weekly supervision. Therapists 209 possess core mental health training with additional specialist psychodynamic training, and team 210 allocation, assessment, and supervision ensure model fidelity and workforce skill sharing. 211 Appointments occur weekly with lengths of therapy averaging from 12-to-24 months. During the 212 therapy, the service-user's progress is collaboratively monitored in session and endings are discussed subject to clinical judgment and service-user request. As an open-ended exploratory approach, these 213 214 are managed flexibly to respond to a service-user's ongoing and developing needs.

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216 Measures

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218 CORE-OM

220 The CORE Outcome Measure (CORE-OM) is a transdiagnostic, pan-theoretical measure of 221 psychological distress covering a range of presenting problems (Barkham et al., 2010). It contains 34-222 items about the last week using a 5-point Likert scale from 'Not at all' to 'Most or all of the time' across 223 four dimensions of Subjective well-being (4-items), Problems/symptoms (12-items), Functioning (12-224 items), and Risk (6-items). Responses are averaged to produce a score of overall distress and by 225 subdomain, with higher scores indicating higher distress or symptom severity. Mean scores are 226 commonly multiplied by 10 to give a clinical score, with a threshold of above 10 indicating clinical 227 populations, and severity bandings of mild (10-14), moderate (15-20), moderate-to-severe (20-25), 228 and severe (25+). Reliable change, that is a score change exceeding what might be expected by chance 229 or measurement error, is defined as 5 or more (Barkham et al., 2010). Clinically significant change is 230 defined as scores moving from above 10 to below 10, and clinically reliable change are scores that 231 additionally change by more than 5. The measure is typically completed before and after therapy to 232 calculate pre- to post-therapeutic change. The CORE-OM has reported good internal consistencies 233 (α =.91-.95) and test-retest reliabilities between 1 to 4-months (r=.88-.80) (see Barkham et al., 2010). 234 In the present sample, the internal consistency was α =.94.

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236 Therapist Assessment and End of Therapy forms

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238 There are two practitioner-completed forms designed to complement the CORE-OM with 239 contextual information including the Therapy Assessment Form (TAF) which further profiles the 240 service-user about their problems and journey into therapy, along with the End of Therapy Form (EOT) 241 which records their problems and pathway through therapy. Both the TAF and EOT contain domain 242 measures of problems including Depression, Anxiety, Personality Problems, Trauma/Abuse, Self-243 Esteem and Interpersonal relationships, rated on a 6-point Likert scale from 'Not at all' (0) to 'Causing 244 severe impairment in all areas' (5), along with Risk categories of Suicide, Self-Harm, and Harm to others, rated 'None' (0), 'Mild' (1), 'Moderate' (2), and 'Severe' (3). The TAF provides information on 245

Assessment Outcome (Accepted, Unsuitable/Referred On, Assessment Only) and Waiting Times (from the Date of Referral to the Date of First Assessment Session), while the EOT records information about Therapy Engagement (Sessions Attended and Non-attended) and Ending Type (Planned, Unplanned, or Unknown (for those without an ending recorded)). To review the missing data effects on Ending Types, those marked 'Unplanned' endings were also combined with those missing endings data ('Unknown'). While it's not possible to accurate know what proportion of those with missing data were Unplanned, it offers a comparative estimate with reduced sampling bias.

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254 Procedure

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256 The service collects and collates routine CORE-OM data at assessment and then every 6-months 257 during treatment, with the first and last completed measures representing pre- and post-scores. Given 258 the delay between assessment and therapy starting, score changes were calculated as pre- and post-259 therapy. The CORE-OM is completed independently by the service-user and is handed to clerical staff 260 who then enter the responses into an information management system (CORE IMS) where it is 261 available for practitioners to review. The supporting practitioner completes the TAF following the 262 assessment process and EOT upon completion of the intervention, recording whether the ending was 263 planned or unplanned (i.e., a premature disengagement not jointly agreed upon by the service-user 264 and practitioner). A service dataset extracted cases assessed, accepted into therapy, and completed 265 interventions (planned/unplanned).

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267 Data analysis

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Descriptive statistics for each variable and the proportions of cases reaching the thresholds for clinical and/or reliable improvement as defined by the CORE-OM will be reported. Pre- and posttreatment data, including change in CORE-OM scores, TAF to EOT number of problems, and risk ratings,

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- were analysed statistically using non-parametric Wilcoxon and Mann-Whitney U tests to assess themagnitude of change.
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Participant complexity is calculated using the baseline CORE-OM scores and TAF problem ratings. A series of non-parametric Wilcoxon and Mann-Whitney U tests assessed the profiles accessing therapy versus those declining as well as those with planned versus unplanned endings. Nonparametric tests were used based on the psychometric data and parametric analytic requirements not being satisfied. All statistical analyses were performed using SPSS v.28.

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281 Ethical considerations

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Data collection complied with data protection and information governance protocols and service-users
 gave consent for their data to be used for this research. This study obtained ethical approval from the
 NHS Research Ethics Committee (Ref: 17/WM/01202).

286 Results

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288 Participants

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Over 10 years, the service received n=2,042 referrals, of which n=1,349 were offered an assessment, n=1,049 were assessed, and n=729 was Accepted for Therapy. Of those assessed, n=1,022 had a valid pre-CORE, and n=474 had a valid pre- and post-CORE. The sample with a valid pre-CORE had an average age of 37.7 years (SD=11.46), were mostly Female (71.3%), White (82.7%), either Employed (25.8%) or not stated (26.9%), on Medication (at intake) (69.0%), Not living with a Partner (61.7%), and were not Caring for Children (74.6%) (see Table 1 for Sample Characteristics).

297 Engagement

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299 The average Waiting Time was 49.25 days (SD=55.95) and there were no significant differences 300 between subgroup characteristics. The average Attendance was 31.7 (SD=30.14) sessions and 301 nonattendance was 26.0% (SD=22.60%) with no significant differences in characteristics except for 302 Gender and Living Situation. Although there were no differences in Nonattended rate between 303 Genders (p=.617) or Living with a Partner (p=.165), Females (M=36.7; Mean Rank (MR)=180.10) 304 reported significantly higher sessions attended than Males (M=26.1; MR=149.88) (Z=2.64, p=.008), as 305 did those Living with a Partner (M=35.3; MR=184.20) than without (M=29.7; MR=159.57) (Z=2.26, 306 p=.024).

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308 Assessment outcomes

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310 The majority were Accepted for Therapy (69.5%), followed by those deemed Unsuitable/Referred 311 on (15.6%), offered an Assessment Only/Long Consultation (13.1%), and No Data (1.9%). Kruskal-Wallis 312 and Chi-squared tests analysing Assessment Outcomes of all assessed (n=1,030; excluding No Data 313 (n=19)) showed no significant differences in sample and engagement characteristics apart from 314 Employment status (X(8)=0.191, p<.001) and pre-CORE scores (H(2)=10.03, p=.007). Post-hoc 315 comparisons using Bonferroni adjustments and adjusted residuals showed those Employed (78.4%) 316 had higher proportions of Accepted (Z=3.44, p<.001), and those on Long Term Sick, Disabled or 317 Benefits (54.2%) had lower proportions of Accepted (Z=-5.06, p<.001) and higher proportions of Unsuitable/Referred on (24.3%) (Z=3.84, p<.001). Those Accepted (M=22.2; MR=485.89) had 318 319 significantly lower pre-CORE scores than Assessment only (M=24.0) MR=570.43) (p=.006) but no 320 differences for either with Unsuitable/Referred on (p>.340).

322 CORE-OM

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Table 1 details overall and subgroup pre- and post-CORE scores. The overall pre-CORE score (n=1,022) was in the 'moderate-to-severe' range (M=22.7, SD=7.15) and post-CORE score (n=474) in the 'moderate' range (M=17.8, SD=8.47). These scores are higher than an NHS benchmarking study of primary, secondary, and tertiary care services (n=1,309), with pre-CORE scores of 17.41 and postscores of 8.50 (Stiles et al., 2006).

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330 Pre-CORE (intake) scores

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332 Spearman's rank correlation tests found no significant associations between pre-CORE scores and 333 waiting times or sessions attended. The analysis did find a significant, small, and positive correlation 334 with nonattendance rate (r=.147, p=.009), indicating those with higher intake scores were more likely 335 to not attend sessions. Mann-Whitney U tests showed significantly higher scores for Females (M=23.0; 336 MR=524.10) to Males (M=21.9; MR=480.15) (Z=-2.15, p=.031), those on Medication (at intake) 337 (M=23.6; MR=539.51) to not (M=20.5; MR=415.24), (Z=-6.21, p<.001), and those not Living with a 338 Partner (M=22.9; MR=532.31) to those that were (M=21.5; MR=463.93) (Z=-3.62, p<.001), but no 339 differences in Caring for Children (p=.202). Although a Kruskal-Wallis test reported significant 340 differences in Ethnic Origin (H(4)=14.80, p=.005), when post-hoc comparisons were adjusted using 341 Bonferroni corrections, the differences between specific groups were non-significant (p>.054) 342 suggesting that subgroup comparisons were underpowered due to their relative sizes. There were 343 significant differences in Employment (H(4)=72.65, p<.001) with post-hoc comparisons using 344 Bonferroni adjustments showing those Unemployed (M=24.4; MR=582.06) had higher scores than 345 Employed (M=20.7; MR=431.17) (p<.001), or Other (M=21.2; MR=455.25) (p=.002) and those on Long 346 Term Sick, Disabled or Benefits (M=25.9; MR=645.91) showing higher scores than Employed (p<.001), 347 or Other (p<.001).

Table 1: Overall and subgroup pre- and post-CORE scores

	Pre-CORE Score		Post-CORE Score	
	N (% of Total)	M (SD)	N (% of Total)	M (SD)
Total	1,022	22.7 (7.15)	474	17.8 (8.47)
Age (Years) ¹	37.7 (11.46)		38.7 (11.5)	
Gender				
Male	293 (28.7%)	21.9 (7.03)	128 (27.0%)	17.2 (8.31)
Female	729 (71.3%)	23.0 (7.15)	346 (73.0%)	18.0 (8.48)
Ethnic Origin				
White/Caucasian	845 (82.7%)	22.5 (7.08)	399 (84.2%)	17.6 (8.43)
Asian/Asian British	70 (6.8%)	21.4 (7.83)	34 (7.2%)	16.3 (8.52)
Black, Black British, Caribbean or African	36 (3.5%)	24.1 (7.26)	18 (3.8%)	21.6 (6.95)
Other/Mixed/Multiple	39 (3.8%)	24.7 (6.42)	8 (1.7%)	19.2 (8.01)
Not Stated	32 (3.1%)	26.1 (6.16)	15 (3.2%)	21.2 (9.26)
Employment				
Employed	264 (25.8%)	20.7 (6.87)	141 (29.7%)	15.5 (7.70)
Unemployed	167 (16.3%)	24.4 (6.53)	78 (16.5%)	20.6 (7.70)
Long Term Sick, Disabled or Benefits	177 (17.3%)	25.9 (6.24)	67 14.1%)	21.2 (8.39)
Other ²	139 (13.6%)	21.2 (6.74)	59 (12.4%)	17.3 (8.38)
Not Stated	275 (26.9%)	22.1 (7.50)	129 (27.2%)	17.2 (8.80)
Medication (at intake)				
Yes	705 (69.0%)	23.6 (6.86)	326 (69.8%)	18.3 (8.30)
No	299 (29.3%)	20.5 (7.29)	141 (30.2%)	16.6 (8.66)
No Data	18 (1.8%)	24.6 (8.50)		
Living Situation				
Living with a Partner	389 (38.5%)	21.5 (6.78)	191 (40.7%)	17.3 (8.43)
Not Living with a Partner	622 (61.5%)	22.9 (6.85)	278 (59.3%)	18.2 (8.44)
Caring for Children				
Yes	257 (25.4%)	21.8 (6.64)	128 (27.0%)	17.6 (8.00)
No	754 (74.6%)	22.5 (6.91)	346 (73.0%)	17.9 (8.67)
Assessment Outcome				
Accepted for Therapy	710 (69.5%)	22.2 (6.87)	-	-
Assessment Only/Long Consultation	133 (13.0%)	24.0 (7.78)	-	-

	Unsuitable/Referred on	160 (15.7%)	22.8 (7.53)	-	-
	No Data	19 (1.9%)	28.1 (5.34)	-	-
Ending type ³					
	Planned	284 (40.0%)	21.4 (6.87)	238 (52.0%)	15.9 (8.66)
	Unplanned	122 (17.2%)	23.8 (6.92)	62 (13.5%)	20.3 (8.77)
	Unplanned & Unknown?	429 (60.0%)	<mark>22.6 (6.71)</mark>	221 (48.0%)	<mark>19.8 (7.21)</mark>

¹ N=1,019

² Other=Student, Homemaker not working or actively seeking work, Unpaid voluntary work, not working or actively seeking work, Retired

³ Of Accepted for therapy (n=729) with valid pre/post CORE measures

**p<.001

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351 Pre-to-Post Change

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353 For those with both valid pre-and-post CORE forms, the average score change was M=4.3 (SD=7.32).

A Wilcoxon signed rank test found significant differences in pre-to-post CORE scores (Z=-10.99, p<.001)

355 with a moderate effect size of r=-.50. There were no significant differences in CORE scores for all sample

356 and engagement characteristics.

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358 CORE subdomain scores

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The sample reported significant reductions and moderate effect sizes in each of the CORE subdomains including Subjective Wellbeing (Z=-10.81, p<.001, r=-.50), Problems/Symptoms (Z=-11.21, p<.001, r=-.51), Functioning (Z=-9.26, p<.001, r=-.43), and Risk (Z=-7.72, p<.001, r=-.35). The effect

363 sizes were lower than the NHS Benchmark figure of 1.36 (Stiles et al., 2006).

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365

5 Table 2: Comparisons of CORE Total and Domain Scores for those with valid pre-and-post CORE scores (n=474)

	Pre-Score M (SD)	Post-Score M (SD)	Z	Effect Size (r)
CORE Total	22.1 (6.77)	17.8 (8.47)	-10.99**	-0.50
Subjective Wellbeing	27.1 (8.17)	21.7 (10.49)	-10.81**	-0.50

Problems/Symptoms	26.2 (7.51)	21.2 (9.72)	-11.201**	-0.51
Functioning	22.5 (7.20)	18.7 (8.90)	-9.26**	-0.43
Risk	9.4 (8.56)	6.6 (7.66)	-7.72**	-0.35

**p<.001

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367 Ending types

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369	The ending types of those Accepted for Therapy (n=729) were 44.0% Unknown, 39.2% Planned,
370	and 16.7% Unplanned. <mark>There were no significant differences in Age between Planned (M= ;</mark>
371	MR=394.83) and Unplanned (M= ; MR=352.50) (p>.182), unless Unplanned was combined with
372	Unknown (M= ; MR=) (Z=-3.074, p=.002). Chi-Squared tests showed no significant findings in other
373	sample characteristics or Waiting times. Due to the source of data for engagement (e.g., EOT form),
374	those with Unplanned and Unknown endings were combined. There were significantly higher sessions
375	attended (Z=-7.96, p<.001) for Planned (M=38.8; MR=200.03) than Unplanned and Unknown (M= ;
376	MR=109.58), and lower Nonattendance rates (Z=-9.83, P<.001) for Planned (M=17.2%; MR=121.73)
377	than Unplanned and Unknown (M=; MR=229.65). There were significantly higher pre-CORE scores
378	between Planned (M=21.4; MR=327.72) and Unplanned (M=23.8; MR=401.13) (p=.003) endings but
379	no significant differences between Planned to Unplanned and Unknown (M= ; MR=363.14) (p>.109)
380	(H(2)=11.67, p=.003). There were also statistically significant differences in CORE score changes
381	between Ending Type (H(2)=18.95, p<.001). Post-hoc comparisons using Bonferroni corrections
382	revealed no significant differences between Planned (M=5.7; MR=254.74) and Unplanned (M=3.5;
383	MR=222.28) (p>.258) though did so when Planned was compared with Unplanned and Unknown (M=
384	; MR=203.36) (Z=-4.147, p<.001).

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386 Therapist ratings

- 388 Problem severity
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There were significant reductions in therapist assessments of problem severity from pre-to-posttreatment, with the highest changes recorded for Depression (M=0.85, SD=1.15) (Z=-10.70, p<.001) and Anxiety (Z=-9.66, p<.001) (M=0.73, SD=1.10) and least Personality problems (M=0.49, SD=1.10) (Z=-5.81, p<.001). The effect sizes ranged from moderate-to-large (r=-0.58 to -0.41) with severity classifications moving from around 'Moderate' (3) to 'Mild' (2) (see Table 4). These effect sizes are slightly higher but equivalent to the overall CORE effect sizes detailed in a previous section.

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	Pre-Treatment Severity Rating		Post-Treatment Severity Rating		Pre-to-Post Problem Severity Rating Change		
	N (% of assessed (n=1049))	M (SD)	N (% of EOT (n=464))	M (SD)	M (SD)	Test Statistic	Effect size (r)
Depression	918 (87.5%)	2.79 (0.90)	357 (76.9%)	2.00 (1.00)	0.85 (1.15)	Z=-10.70**	-0.58
Anxiety	851 (81.1%)	2.88 (0.87)	347 (74.8%)	2.17 (0.98)	0.73 (1.10)	Z=-9.66**	-0.55
Personality Problems	671 (64.0%)	2.97 (0.87)	252 (54.3%)	2.39 (0.95)	0.49 (1.10)	Z=-5.81**	-0.41
Trauma Abuse	583 (55.6%)	3.01 (0.92)	226 (48.7%)	2.34 (1.02)	0.70 (0.99)	Z=-7.79**	-0.57
Self Esteem	754 (71.9%)	3.02 (0.86)	314 (67.7%)	2.25 (0.99)	0.72 (1.12)	Z=-8.90**	-0.54
Interpersonal relationships	909 (86.7%)	3.08 (0.86)	379 (81.7%)	2.40 (0.99)	0.58 (1.17)	Z=-8.38**	-0.47

398

399

400 *Risk*

**p<.001

401

There were significant reductions in therapist assessments of risk from pre-to-post-treatment, with the largest change observed in Self-Harm (M=0.20, SD=0.70) (Z=-5.67, p<.001), followed by Suicide (M=0.14, SD=0.68) (Z=-4.07, p<.001), and then Harm to Others (M=0.09, SD=0.42) (Z=-4.12, p<.001) (see Table 5). Risk ratings shifted from around 'Mild' (1) to 'None' (0), with the effect sizes in the low range, and lower than the CORE Risk score effect sizes detailed in a previous section.

408 Table 4: Therapist risk ratings pre-and-post-treatment

	Pre-Treatment Risk Rating		Post-Treatment Risk Rating		Pre-to-Post Risk Rating Change		
	N (% of Assessed (n=1049))	M (SD)	N (% of EOT (n=464))	M (SD)	M (SD)	Test Statistic	Effect size (r)
Suicide	1,016 (96.9%)	0.75 (0.75)	417 (89.9%)	0.51 (0.66)	0.14 (0.68)	Z=-4.07**	-0.20
Self-Harm	1,006 (95.9%)	0.98 (0.86)	412 (88.8%)	0.66 (0.76)	0.20 (0.70)	Z=-5.67**	-0.28
Harm to Others	963 (91.8%)	0.28 (0.55)	400 (86.2%)	0.14 (0.36)	0.09 (0.42)	Z=-4.12**	-0.21

**p<.001

412 Discussion

413

The effectiveness of psychodynamic therapies within an NHS mental health service

416 In a naturalistic study of retrospective clinical data, psychodynamic therapy provided within this 417 NHS service appeared to be effective. The analysis uncovered moderate-to-large effect sizes, including 418 overall and within subdomains, and around half moving towards reliable improvement. These findings 419 were observed in a complex caseload, as evidenced by intake scores and problem severity ratings. 420 Improvement in problems/symptoms and subjective wellbeing showed higher effect sizes than 421 functioning and risk. Functional items contain complex relational components and may reflect 422 entrenched and difficult-to-address aspects of psychological distress (e.g., "I have felt humiliated or 423 shamed by other people"). It aligns with the psychodynamic approach of exploring and processing 424 underlying object relations to alleviate distress (Lindfors et al., 2015). The therapist's problem severity 425 ratings showed greater changes in depression and anxiety than personality and interpersonal 426 difficulties. This observation strengthens the idea of entrenched aspects of distress being more 427 challenging to address. That said, the results do demonstrate meaningful change across multiple 428 components of measured psychological distress. Accordingly, psychodynamic therapy provided within 429 this service seems to be a valuable option for addressing ingrained, complex, and long-standing mental 430 health problems, producing changes in symptoms, wellbeing, functioning, and interpersonal relating. 431 This is particularly fitting for complex presentations and enacting long-lasting change demanded of 432 NHS therapy provision at a tertiary level.

433

434 Understanding the suitability of Psychodynamic Therapies for Complex Presentations435 within an NHS mental health service

436

Regarding this paper's second objective, certain characteristics of the sample displayed varying
levels of severity and engagement styles that are informative for service provision. The sample

439 consisted mainly of middle-aged, White/Caucasian, or those Unemployed or on Long-term sick, 440 Disabled, or Benefits, which corresponds with data from NHS England (NHS Digital, 2022). Participants 441 who were employed and had lower intake scores were more likely to be accepted for therapy than 442 referred on, in comparison to those who were on long-term sick, disabled, or benefits or had higher 443 intake scores. As the overall intake scores were classified as "moderate-to-severe," it is possible those 444 in the "severe" category along with being more likely to experience social adversities, may not be 445 suitable for therapy at that time. It is worth noting the decision to accept or signpost elsewhere is a 446 collaborative process with the service-user and based on priority interests.

447

448 Female participants, those with partners, or those with lower scores recorded higher session 449 attendance and engagement than males, those without partners, or those with higher intake scores. 450 Notably, individuals without partners, unemployed, on medication, or female reported higher intake 451 scores, which could indicate a marginalised or disenfranchised group more likely to face social 452 adversity or have longer standing contact with services (Jin & Mosweu, 2017; Naylor et al., 2012). Once 453 engaged, those attending more sessions more consistently were likely to have a planned ending, 454 perhaps reflecting a positive therapeutic relationship to produce an agreed ending. It is worth 455 mentioning there were associations between the ending type and intake scores or age, but no 456 apparent link with other engagement factors such as waiting times. This suggests that service-user 457 characteristics more than waiting to access was more informative at determining eventual 458 engagement.

459

460

461 Implications

462

Within the psychodynamic therapy field, the range of study methodologies is diverse (Fonagy et al.,
2015) and there is growing appreciation for methodological pluralism and practice-based evidence

21

465 (Barkham et al., 2010; Wakefield et al., 2021). Studies using controlled methodologies support the use 466 of psychodynamic therapies (Leichsenring et al., 2013) and the findings from this study support its use 467 in clinical settings by extending its ecological validity. This research examined routine clinical data to 468 observe psychodynamic therapies in action and within an NHS specialist service context. Aside from 469 the confounding factors common to practice-based research, particularly in supporting those with 470 multiple, complex, and enduring mental health problems, the findings support the role of this 471 specialist model. This value is further supported by evidence suggesting other therapeutic models 472 reduce in effectiveness within secondary and tertiary care settings (Taylor et al., 2012).

473

474 Specialist therapy services provide support for those with complex and enduring mental health 475 problems who have not responded to other interventions or require longer and more exploratory 476 approaches. The findings support the use of psychodynamic therapies within this service context and, 477 as shown by the equitable changes across subgroups, likely reflects the value of a responsive, flexible, 478 and relational dynamic approach for those with complex and changing needs. Psychodynamic therapy 479 tends to be longer-term than comparators such as CBT but as argued by Shedler (2010), there is greater 480 emphasis on sustaining underlying psychological change as opposed to symptom management which 481 seems relevant for targeting underlying personality functioning. The Tavistock group champion 482 interventions that adapt to personality features when treating resistant depression (Rost et al., 2019), demonstrating the value of this specialist service delivering dynamic approaches. 483

484

The study supports the use of psychodynamic therapies within a specialist NHS service treating complex mental health problem which is in keeping with other findings (Fonagy et al., 2015; Leichsenring et al., 2013). It is possible the relational approach of psychodynamic therapy which attempts to uncover unconscious and unexpressed emotional states enables symptom reduction and increased daily functioning. These changes can be experienced in therapeutic relationships as an

emotional struggle between the service-user and therapist (Haskayne et al., 2014). The therapeutic
couple contract to engage in trying to understand the personal meanings of the stories, enactments,
and feelings the individual brings to the therapeutic relationship, which in turn reduces psychological
distress. This way of working facilitates integrated thinking about clinical containment of risk, which is
particularly important when working with a high-risk population.

495

496 The analyses reveal several important clinical characteristics that appear to influence 497 psychodynamic therapy engagement and outcome within this service context. While the acceptance 498 rate was moderately high, those with higher intake scores and Unemployed/Long Term Sick, Disabled 499 or on Benefits appeared less likely to be accepted although no more likely to have an unplanned ending once accepted. There were also indications that younger service-users were more likely to have an 500 501 unknown than planned ending which as whole reported lower session attendance and CORE score 502 change. While unknown does not infer unplanned, its suggestive of younger individuals losing contact 503 with services without notification. Comparisons between therapist and self-report recordings of 504 problem severity suggest a slight level of discrepancy in how each perceives the difficulties, prompting 505 a need for greater dialogue regarding shared understandings of a service-user's problems. Accordingly, 506 this supports initial and ongoing assessments of a person's responses to psychodynamic therapy in 507 clinical settings while being mindful of the factors reducing acceptance and engagement rates. The 508 limited difference in observed CORE score changes across other socio-demographic factors and 509 variable intake scores indicate a responsive approach towards diverse presentations.

510

511 Limitations

512

513 Many of this study's limitations are common to naturalistic, practice-based studies, including the 514 lack of control groups, non-measured treatment fidelity, variable data quality, and cross-sectional

515 design. Learning from the dose-effect and common factors literature suggests the length of therapy 516 may be beneficial in and of itself, regardless of modality, thereby challenging the role of intervention-517 specific techniques from simply delivering higher sessions (Robinson et al., 2020). As part of the service 518 pathway, the service-user's referring care team is responsible for reviewing and supporting ongoing 519 care plans. While consultation and joint appraisal occur, it is unclear to what extent additional 520 interventions, including psychotropic medication, are provided. While service-users must not receive 521 parallel psychotherapy as stipulated by the service's criteria, it is not possible to attribute the observed 522 effects to the intervention alone versus other concurrent medication or psychosocial programmes 523 including occupational and nursing support. That said, as the service operates along tertiary levels and 524 acts as an alternative for referrers, it's typical that service-users will have received other psychosocial 525 interventions previously as shown by their longer-standing issues. Such is the nature of complex and 526 enduring mental health problems that the provision of psychotherapies in isolation is not in keeping 527 with the clinical realities of treating difficulties requiring multidisciplinary support. Finally, as well as 528 the low to variable data quality of post-treatment CORE scores, these measures represent a narrow 529 perspective of improvement and are limited in conveying the level of inner change, characterised by 530 increased emotional resilience, insight, and sense of meaning (Shedler, 2010; Waddell, 2002). While 531 this study attempted to address these limitations by triangulating service-user and therapist measures, 532 future work would benefit from qualitative assessments of inner change as recommended by the 533 Operationalised Psychodynamic Diagnosis Manual (OPD Force, 2008). The service has also began 534 implementing 6-to-12-month follow-up psychometric assessments to evaluate change beyond the end 535 of therapy.

536

537 Conclusions

538

539 This paper analysed 10-years of retrospective clinical data to assess the effectiveness of 540 psychodynamic therapies within an NHS mental health service. The results showed that

541 psychodynamic therapy delivered within a naturalistic context was effective based on self and 542 therapist-reported psychometrics. Analyses of intake presentations indicated a characteristically 543 complex population, supporting the service's role in treating entrenched difficulties. Certain subgroup characteristics appeared less likely to engage and were interpreted as a potentially marginalised and 544 545 disenfranchised group requiring greater attention and input from services. Limited score changes 546 between subgroups suggest that despite the variable intake profiles, the therapy was responsive and 547 flexible according to individual needs. Overall, the data reported a mostly consistent effectiveness rate 548 and moderate-to-large effect sizes at broader and subdomain levels relevant to mental health care.

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