



Table S1: Summary of studies on Dynamic Psychotherapy.

#	Citation	Design	N	Psychopatholog y/ Symptomatolog y	Therapy Design	Diagnostic	Outcomes Assessment	Highlights	Results	Recommendations
1	(Abbas, Kisely, Rasic, & Katzman, 2013)	Process- outcome study	140 patients treated over 9 years	Somatoform disorder; Anxiety disorder; Personality disorder and Major depression	Intensive short-term dynamic psychotherap y (ISTDP), an average of 9.9 treatment sessions.	Clinical interview	Brief Symptom Inventory (BSI) and Inventory of Interpersonal Problems (IIP) were applied at pre and posttreatment. Comparing before to immediately after treatment, the global BSI score went from 1.62 (SD 0.77) to 1.15 (SD 0.81; <i>p</i> < 0.001, effect size d = 0.59), whereas the global IIP score went from 1.52 (SD 0.66) to 1.16 (SD 0.76, <i>p</i> < 0.001; effect size d = 0.51).	Direct experience of intense mixed feelings toward others; regulating anxiety and blocking defensive avoidance.	This study provides preliminary evidence that trainees can learn a model, that it is effective with their patients early in their career, and that it may lead to cost savings for institutions funding psychiatric training positions.	Non-specified
2	(Abbass, 2016)	Case study	1	Chronic Depression; Medically unexplained symptoms.	Intensive short-term dynamic psychotherap y (ISTDP). 25 sessions	Clinical interview	- -	Complex transference feelings, Resistances and Unconscious therapeutic alliance.	Dynamic Psychotherapy is well positioned to activate feelings connected to relational trauma, help overcome complex resistances to attachment, and enable the processing of pathogenic feelings resulting in a new way of relating to oneself and others. Symptomatic relief. In 8-year follow-up after a 25-session treatment	The use of video self and peer review to detail technical intervention and somatic responses is an invaluable instrument to study one's own cases toward optimizing the pace and depth of emotion access and processing in the psychodynamic frame.

3	(Abbass, Town, Ogrodnicz uk, Joffres, & Lilliengren , 2017)	Naturalisti c Observatio nal study	500 patients treated over 9 years	Somatoform disorder; Personality disorder; Major depression; Disorder anxiety generalized	Trial therapy interviews lasting up to 3 h, using intensive short-term dynamic psychotherap y (ISTDP)	Clinical interview based on DSM-IV.	BSI and IPP were used at baseline and at follow-up. Follow-up interviews were typically conducted 1 month after the therapy. Pre and follow-up assessments indicated a symptom reduction. Observed means (SD) baseline and 1-month follow-up for the BSI were 1.63 (0.76) and 1.34 (0.78), respectively, and for the IIP were 1.53 (0.66) and 1.39 (0.73), respectively. BDI-II, and the computer-based versions of the	Experiencing and processing the underlying impulses and feelings.	course, patient was vital at age 77, active in charity work and physically robust. Significant improvements were self-reported on both symptom and interpersonal problem measures. Moreover, the effects seen in the group with major unlocking were moderate to large and occurred in not just a few patients but in one quarter of these tertiary patients.	Future research should include the use of a randomized comparison condition to control for the effects of time passage. It should also further examine predictors of response by operationalizing degree of resistance as a dimensional variable such that the nature of patient resistance and fragility can be more sensitively explored.
4	(Ajilchi, Nejati, Town, Wilson & Abbass, 2016)	Randomiz ed parallel group	32, being 16 with ISTDP and 16 in waitlist	Depressive symptoms and major depression (TDM)	Intensive short-term dynamic psychotherap y (ISTDP), an average of 15 sessions of 60 min.	Clinical interview based on DSM-IV, and the self- report Beck Depression Inventory (BDI- II),	measures The Wisconsin Card Sorting Task (WCST) and Stroop Task were applied at baseline, posttreatment and at the 12-month follow-up. The results indicated that participants treated with ISTDP had significantly reduced depression severity both at posttreatment (mean = 17.94) and at 12-month follow-up (mean = 18.06). In addition, modest improvements on most tests of executive functioning were identified.	Working through grief about losses and the experience; Processing of buried rage and guilt about rage related to attachment trauma in childhood.	Consistent with previous research in short-term psychodynamic psychotherapy of major depression, the ISTDP treatment arm produced treatment effects greater than controls that are maintained or increase over time. This preliminary result is important given that the treatment is brief and relatively cost effective.	Future studies should endeavor to include assessment of activities of daily living in addition to executive processing. In addition, further research is necessary to examine whether long-term cognitive functional changes are also observed in short-term variants of psychodynamic therapy.

5	(Hersoug, Hoglend, Gabbard, & Lorentzen, 2012)	Randomiz ed parallel group	100 patients — 52 of transfere nce group; 48 of comparis on group	Depression; Anxiety; Personality disorder and Interpersonal problems	Dynamic Psychotherap y, an average of 34 weekly sessions of 45 min throughout 1 year.	Structured Clinical Interview for DSM-III-R (SCID-II), and IIP, Global Expectancy Scale (GES), Target Expectancy, Quality of Object Relations Scale, Psychodynamic Functioning Scales (PFS), Working Alliance Inventory (WAI).	Assessments were applied at four times: pretreatment, posttreatment, 12-month follow-up and 3-year follow-up. 60% obtained clinically significant change in PFS. Regarding IIP, 43% of the patients obtained clinical significant change in IIP. The results about analyses of the impact of the quality of the alliance on treatment outcome 3 years after termination indicated significant associations: (1) PFS: B = 0.7, F(1, 119) = 3.9, p<0.05; ES = 0.4; and (2) IIP: B = 0.06, F(1, 97) = 4.4, p = 0.04; ES = 0.4.	Transference group: therapist included himself in interpretive linking of intrapsychic conflicts, direct manifestations of transference, and allusions to the transference. Comparison group: therapist used interpersonal relationships outside of therapy as the basis for similar interventions (extratransferen ce interpretations)	Longer psychodynamic treatment is beneficial especially for patients with Personality Disorders in a long- term perspective.	Further research may investigate whether there is a systematic variation in the impact of Target Expectancy on IIP outcome, depending on high versus low level of Personality Disorder criteria and whether a combination of high scores of Personality Disorder criteria and unrealistic high expectancies may have contributed to the finding.
6	(Hickey, 2015a; 2015b)	Case study	1	Psychoneurotic disorder	Approximate ly 17 blocks of ISTDP over the span of 3 years. (Each block consists of 5–6 days of intensive, immersion training)	Clinical interview	-	Transference feelings; Unlocking of the unconscious; Treatment of resistance and Unconscious therapeutic alliance.	Without the careful and thoughtful application of MUSC (Multidimensional unconscious structural changes) throughout all phases of the interview, the patient cannot achieve an understanding of their resistances, their destructiveness, and	Non-specified

7	(Hickey, 2015c; 2015d)	Case study	1	Psychoneurotic disorder	Approximate ly 17 blocks of ISTDP over the span of 3 years. (Each block consists of 5–6 days of intensive, immersion training).	Clinical interview	-	Transference feelings; Unlocking of the unconscious; Treatment of resistance and Unconscious therapeutic alliance	their capacity for change in life. The total removal of resistance in a patient. A patient experienced a primitive stage of rage. The patient had crippling symptom and character disturbances her entire life, but she was fully in touch with these forces and this was very healthy.	More rigorous research is needed into the current techniques and methodologies of ISTDP.
8	(Johansson , Town, & Abbas, 2014)	Process- outcome study	412	Somatoform disorder; Anxiety disorder; Personality disorder and Major depression	Intensive short-term therapy (ISTDP), an average length of treatment of 10, 2 sessions.	Psychodiagnost ic non-specified	BSI and IPP were applied at baseline and posttreatment. The results revealed significant within-group effects of ISTDP on both the BSI and the IIP. Pre and posttreatment scores indicated a reduction from 1.60 to 0.92 (mean BSI), whereas the mean IIP score went from 1.51 to 0.99.	Resistance, emotional mobilization and unlocking of the unconscious.	A major unlocking of the unconscious during therapy predicted better treatment outcome.	establish a causal relationship between outcome and in-session events in ISTDP. Furthermore, standardized ratings of rise in the complex transference feelings and type and degree of resistance should be developed in future research on ISTDP, to enable further knowledge of the mechanisms of change in
9	(Kenny, Arthey, & Abbass, 2014)	Case study	1	Severe performance anxiety	Intensive short-term therapy (ISTDP). 10 sessions, 4 months	Clinical interview	-	Therapeutic focus; active therapist involvement; central dynamic sequence; therapeutic alliance;	As the defenses were overcome and the unconscious feelings were consciously experienced, it was possible working through previously repressed memories. The anxiety and	ISTDP. The authors mentioned that systematic research is required in this area.

10	(Kramer, Pascual- Leone, Despland, & Roten, 2015)	Process- outcome study	32	Adjustment Disorder with depressive mood	Short-term psychodyna mic psychotherap y (STPP). One year of weekly sessions.	Structured Clinical interview for DSM-IV.	BDI-II, Symptom Check List-90 (SCL-90), Helping Alliance Questionnaire-II (HAq-II), Classification of Affective Meaning States (CAMS). Using 1 min as the fine-grained unit of analysis, results showed that the experience of fundamentally adaptive grief was more common in the in-session process of patients with good outcome, compared with those with poor outcomes ($x^2 = 6.56$, $p = 0.01$, $d = 1.23$). This variable alone predicted 19% of the change in depressive symptoms as measured by the Beck Depression Inventory at the end of treatment.	Emotional exploration and completion; therapeutic alliance; experience of grief; repetitive interpretation of patterns in patient's life.	defenses were relinquished, leaving the patient a more integrated and less anxious and defended person. A patient's grieving experience during the good alliance sessions as a process that leads to symptom change. Even in a good alliance session, the exact timing to facilitate adaptive grief is important.	Further studies should take into account the therapist responsiveness.
11	(Leichsenri ng & Steinert, 2017)	Explorator y study	-	Obsessive- compulsive Disorder	STPP for OCD based on SE therapy, 24 sessions	Clinical interview is recommended.	-	Therapeutic alliance; core conflict underlying the OCD symptoms; defenses; avoidance components; modification of	Considering the effectiveness of STPP for anxiety disorders, the authors developed a method of STPP specifically tailored to the treatment of OCD, based on SE therapy, and complemented by disorder-specific interventions.	An empirical test in an RCT is required. If the treatment turns out to be efficacious, it would be of interest to investigate which patients benefit from STPP, CBT, or SSRIs in order to offer patients a treatment from which they will benefit most.

12	(Lilliengre n, Johnsson, Town, Kisely, & Abbass, 2016)	Process- outcome study	215	Generalized Anxiety Disorder (GAD)	ISTDP, once a week, not time-limited (average = 8.3 sessions). + Pharmacothe rapy.	Clinical interview based on DSM-IV.	BSI, IIP and Mobilization of unprocessed complex emotions (MUCE) were applied at pre and posttreatment. The results indicated significant, moderate to large, reductions in psychiatric symptoms and interpersonal problems during treatment. Pre and posttreatment scores indicated a reduction from 1.63 to 1.27 (mean BSI), whereas the mean IIP score went from 1.58 to 1.29.	internalized object relations. Emotion- focused treatment; mobilization of unprocessed complex emotions; defensive operations; in- session processing of intense, conflicted emotions related to attachment trauma.	Significant decreases in psychiatric symptoms, interpersonal problems, and healthcare costs. Therapist's level of experience and skill may influence treatment length.	GAD should be investigated in a randomized controlled design, accounting for time passage and other factors. Future processoutcome studies should use repeated measures.
13	(Meystre, Kramer, Despland, & Roten, 2016)	Explorator y study	6	Depressive Disorder	weekly sessions. + Pharmacothe rapy, supportive interventions twice a week by a psychiatrist resident; 2 weekly 30- min encounters with nurses for developing psycho- educational skills.	Cases were selected from a randomized controlled trial investigation. Diagnostic assessment non-specified.	Assimilation of Problematic Experiences Scale (APES) was applied each therapy session in order to assess the assimilation level of the sample. The values ranged from 1.00 to 2.01. The mean APES rating for the good-outcome cases was $M = 1.52$ ($N = 882$; $SD = 0.73$), and for the pooroutcome cases, it was $M = 1.29$ ($N = 617$; $SD = 0.72$). There was no significant difference between the two groups ($\beta = 0.22$, $p = 0.182$).	Assimilation and new understanding of past experiences; interpretative and confronting interventions;	Achieving the insight level was a rare psychotherapeutic event, appearing from time to time. Insight may have a significant impact, leading patients to some reflection and elaboration outside psychotherapy. The progress was characterized by peaks of assimilation (insight events).	Investigating the role played by the psychotherapist in the assimilation process may help differentiate goodand poor-outcome cases.

14	(Moradian, Salehi, Hasani, Arshadi, & Azin, 2017)	Experimen tal study	5	Sexual Disfunction	ISTDP, 20 weekly sessions of 120 min.	Clinical interview based on DSM-5, and Female Sexual Function Index (FSFI)	FSFI, Sexual Quality of life–Female (SQOL-F), and Subjective evaluation of partner's sexual function (SEOPSF) were applied at baseline, final session, and 8-week follow-up. The mean scores at baseline, final session, and follow-up session for FSFI werw11.0, 28.4 and29.8, respectively, and for SQOL-F were 39, 99 and 104 respectively. 10.04 at the final session. The mean score at first session SQQL-F was 28 and 32.2 at	Defenses; resistance; anxiety regulation; pressure to experience the impulse; analysis of conflict; central dynamic sequence.	The process of change had a remarkable growth when the first breakthrough to the unconscious. Only ISTDP has been able to result in a change in sexual quality of life.	ISTDP may implement all psychoeducational and common cognitive-behavioral interventions in a framework while facing sexual dysfunctions.
15	(Ness, et al., 2018)	Experimen tal study	30	Major Depressive Disorder	STPP, 28 weekly sessions. A parallel work with parents. Antidepressa nt medication in severe cases.	Mini International Neuropsychiatr y Interview (M.I.N.I.) and Structured interview for DSM-IV Personality (SIDP-IV).	the final session. PFS, Global Assessment of Functioning (GAF), SCL-90, and BDI-II were applied at pre and posttreatment. The mean scores at the pre and posttreatment for GAF were 59.2 and 67.1, respectively; for GSI (from SCL-90) were 1.3 and 0.81; for BDI were 29.2 and 15.1; and for PFS were 60.8 and 66.0, respectively.	Emotional growth, development, and maturation; self-understanding of interpersonal patterns; increase awareness of own affects; interpretation of unconscious conflicts.	Variations in outcome seem to be influenced by patient's characteristics and by the therapist variables and context factors. Changes in mood and affect may have larger effect size in response to treatment	Further investigation including an assessment of change in adolescents' treatment may contribute to this field and improve clinical interventions.
16	(Perry, Bond, & Presniak, 2013)	Naturalisti c Observatio nal study	53	Suicidal phenomena; Depressive; Anxiety; and Borderline Personality Disorders	Long-term Dynamic Psychotherap y, once or twice weekly. Average of duration	Guided Clinical Interview (GCI) based on DSM- IV.	At baseline, and every 6 to 12 months interviews were conducted, using the Longitudinal Interval Follow-up Evaluation Adapted for the Study of Personality (LIFE-ASP),	Therapeutic alliance; reactions to treatment; transference; countertransfer ence;	When suicidal patients do not express negative affections in therapy, therapist may need to actively inquire about such affects or address	Replicating these findings in additional naturalistic treatment trials, varying durations, but with follow-up of sufficient length to ascertain long-term

					therapy was		The Psychosocial		defenses inhibiting	outcome, including
					3 years. Most		Treatment Interview (PTI)		them in order to	recovery (maybe 5-year
					of sample		and Therapeutic Alliance		provide material for	follow-up).
					used		Analogue Scales (TAAS).		exploration the bases	
					psychotropic		Significant reductions in		of the conflicts. Higher	
					medications.		suicidal and self-		levels of the alliance	
							destructive phenomena		promote more effective	
							with treatment. At PTI		work with the negative	
							Total Therapeutic Alliance		affective material.	
							scores of 0.55 (representing			
							55% of the maximum			
							score) or above, Negative			
							Reaction to Treatment			
							became a progressively			
							Process of recovery from			
							suicidal phenomena			
							stronger and significant			
							predictor of improvement.			
							Borderline Personality			
							Disorder Scale (BPD Scale),			
							SCL-90, Hamilton Rating			
							Scales for Depression			
							(HRSD-21), Hamilton			
					Long-term		Rating Scales for Anxiety			
					Dynamic		(HRSA), Social Adjustment			
					Psychotherap		Scale (SAS), Defense Style	Patient-	The rate of change is	Further investigations
					y, once or	Guided Clinical	Questionnaire (DSQ), and		similar between	could be focus on
	(Perry,	Naturalisti	51, being	Borderline	twice weekly.	Interview (GCI)	GAF. When individuals	therapist	patients with and	comparison of different
17	Bond, &	c	16 with	Personality	Average of	based on DSM-	with pronounced BPD	interaction;	without Borderline	treatments on a core of
17	Békés,	Observatio	BPD	Disorder	duration	IV, and LIFE-	symptoms begin	therapeutic alliance;	Personality Disorder,	common measures to
	2017)	nal study	BFD	Disorder	therapy was	ASP.	treatment, they often have	defensive	when the first group	
					3 years.		higher levels of other		began to improve with	analyze the changes and
					Pharmacothe		symptoms and poorer	functioning.	treatment.	time to remission.
					rapy was		functioning compared			
					included.		with many other			
							nonpsychotic patient			
							groups. BPD			
							psychopathology was			
							unrelated to the rate of			
							change in both depressive			

(Town, Abbass, 18 Stride, & Bernier, 2017)	Randomiz ed parallel group	60	Depressive Disorder / treatment resistant depression	Intensive Short-Term Dynamic Psychotherap y (ISTDP), 20 weekly sessions of 60 min. Medication was allowed when remains stable.	M.I.N.I. and the Structured Clinical interview for DSM-IV Axis II Personality Disorders.	symptoms (HRSD) and global functioning (GAF). Hamilton Depression Rating Scale (HAM-D) and Patient Health Questionnaire (PHQ-9) applied at baseline, midtreatment, and posttreatment. The effect of time was significant and negative (HAM-D: B = -3.876, <i>p</i> < 0.05; PHQ-9: B = -3.258, <i>p</i> < 0.05) indicating that the incidence of depressive symptoms decreased over time. The sample percentages achieving full and partial remission using the HAM-D or PHQ-9-based diagnostic thresholds varied widely by group (e.g., HAM-D full remission, ISTDP 36% vs. treatment as usual (TAU) 3.7%; HAM-D partial remission, ISTDP 48.0% vs. TAU 18.5%; PHQ-9 full remission, ISTDP 32.0% vs. TAU 4.3%; PHQ-9 partial remission, ISTDP 60.0% vs. TAU 8.7%). When modelling these diagnostic outcomes, we found significant interactions between treatment group and time-point, with the odds of partial and full remission diagnoses showing a significantly	Emotional exploration; anxiety tolerance; emotional avoidant behaviors; awareness and capacity to experience emotions that adversely affect mood.	Comparing to TAU (treatment as usual) significantly more patients receiving ISTDP stopped or reduced medications during treatment. The interventions focused on emotional experience seem to be better for these cases than interpretative intervention.	Future research needs to better understand if therapy could have been optimized, extended, or medically augmented to facilitate remission.
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19	(Town, Abbass, & Bernier, 2013)	Naturalisti c study	89	Personality Disorder	ISTDP, an average of 14.9 weekly sessions.	Clinical interview based on DSM-IV.	greater increase over time for patients treated with ISTDP as opposed to TAU BSI, IIP, BDI, and Beck Anxiety Inventory (BAI) were applied at pre and posttreatment. For each outcome measure, the ANCOVAs revealed a significant effect of the Major Unlocking Group while holding constant baseline symptom severity and Resistance level: the magnitude of Change Scores was greater in patients with a Major Unlocking response. The strength of the relationship between Unlocking Group and magnitude of Change Scores revealed that the Group factor accounted for about 10% of the variance in Change Scores for the BSI-53 and the BDI, 13%	Resistance; exploration and interpretation of hidden, anxiety laden feelings; unconscious therapeutic alliance.	The patients who experienced unlocking of the unconscious in therapy sessions had greater symptom reduction, improvement of interpersonal functioning and decrease of healthcare use.	Improvements in future research methodologies may include multiple assessments of in-session process and post-session outcome to analyze change variables.
20	(Town, Salvadori, Falkenströ m, Bradley, & Hardy, 2017)	Explorator y, process- outcome study	4	Major Depressive Disorder	20 weekly sessions of 60 min.	M.I.N.I. (DSM- IV).	for the BAI, and 20% for the IIP-64. Beck Depression Inventory II (BDI-II), Clinical Outcomes in Routine Evaluation-Outcome Measure (CORE-OM) and Inventory of Interpersonal Problems – Short Circumplex Form (IIP-SC) were applied at pre and posttreatment. Pre- treatment scores on the	Emotion- focused interventions; affect experiencing; therapeutic alliance; transference; removal of resistance;	Peak affect experiencing was associated with improvements in self- reported patient distress. Experiencing of the somatic component of feelings contributes to therapeutic changes.	Further studies on short- term psychotherapy should aim to collect session-to-session data on a large number of therapies.

BDI-II, CORE-OM and IIP- challenge to	
SC measures indicate that defenses.	
all the participants scored	
within the clinical range	
during the baseline phase.	
Two participants (P1 and	
P2) showed clinical and	
statistically significant	
change from the baseline	
phase to the posttreatment	
on all the assessment tools,	
they are referred to as	
'recovered'. No significant	
change was demonstrated	
in the results for P3 and	
P4, they are referred to as	
'no change'.	
Through a carefully	It is essential to the
monitoring the patient-	integration of medication
Standard Experiencing s moment-to-moment	and ISTDP ensure that
Depressive Peychiatric experience in the	they work together -
21 'Case study 4 'Evaluation - teelings: 1	considering whether
2013) Anxiety specified based on DSM- emotional learn when is a good Disorder. Note to be a specified based on DSM- based on DSM- time to press the	medication is aiding the
IV. regulation; experience of feelings	psychotherapy process
or to identify and	or limiting its
challenge to defenses.	effectiveness.