Table 1 Quantitative face and content validity

	Item	Quantitate face validity	_	tate content alidity
		Impact score%	CVR	K *
1	I measure BMI before initiating drug treatment if the patient with the acute phase of bipolar disorder cooperates.	5	0	
2	I evaluate the serum level of liver enzymes (ALT, AST, and ALP) before initiating treatment with valproate or carbamazepine if the patient with the acute phase of bipolar disorder cooperates.	5	1	1
3	I will evaluate serum creatinine level (and calculate creatinine clearance) at baseline in case of the decision to prescribe lithium on the condition of the patient's cooperation.	5	1	0.89
4	I request a UA test Before initiating drug treatment if the patient with the acute phase of bipolar disorder cooperates.	5	-0.2	
5	I evaluate the symptoms of movement disorders before initiating drug treatment if the patient with the acute phase of bipolar disorder cooperates.	4.9	-0.2	
6	I request a pregnancy test before initiating drug treatment if the woman with an acute phase of bipolar disorder cooperates.	5	1	0.89
7	I request a blood cell count (CBC) test at the base (initiating drug treatment) if the patient cooperation.	5	1	0.79
8	I will evaluate the serum level of TSH before initiating treatment with lithium if the patient with the acute phase of bipolar disorder cooperates.	5	1	0.89

	Item	Quantitate face validity	_	tate content alidity
		Impact score%	CVR	K*
9	I will evaluate the serum level of calcium before initiating treatment with lithium if the patient with the acute phase of bipolar disorder cooperates.	4.23	1	0.79
10	I will evaluate the sodium serum level before initiating treatment with carbamazepine if the patient with the acute phase of bipolar disorder cooperates.	5	-0.4	
11	I will evaluate the blood pressure before initiating treatment with antipsychotic drugs if the patient with the acute phase of bipolar disorder cooperates.	5	0.6	
12	I evaluate the history of obesity in the patient or the patient's first-degree family members before initiating the treatment with antipsychotic drugs if the patient with the acute phase of bipolar disorder cooperates.	4.9	-0.2	
13	I request a serum prolactin level test before initiating treatment with antipsychotic drugs in a patient with the acute phase of bipolar disorder with clinical symptoms of hyperprolactinemia and if the patient with the acute phase of bipolar disorder cooperates.	5	1	1
14	I request an FBS test before initiating treatment with atypical antipsychotic drugs if the patient with an acute phase of bipolar disorder cooperates.	5	1	1
15	I request blood lipid tests before initiating treatment with atypical antipsychotic drugs if the patient with the acute phase of bipolar disorder cooperates.	5	1	0.89

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	Item	Quantitate face validity	-	
		Impact score%	CVR	K *
	In choosing a medication regimen for a patient with the acute phase of bipolar disorder, I consider the following:			
16	A: History of response to treatment in the patient	5	1	1
17	B: Family history of drug response	5	1	1
18	C: Clinical manifestations	5	1	0.89
19	D: Common side effects of the drug	5	1	1
20	E: underlying diseases	5	1	1
21	F: other factors related to drugs as drug cost, available formulations, drug interactions, and pharmacokinetic considerations	5	1	1
22	G: Preference of the patient or his caregiver	5	0.2	
23	In a patient with the acute phase of mania of bipolar disorder, I initiate the medication based on the patient's clinical condition and tolerance and gradually increase the medication dose until reaching the therapeutic dose range.	4.23	0.2	
24	In a patient with the acute phase of mania of bipolar disorder, if after receiving one to two weeks of the drug(s) within the therapeutic dose range, a minimal improvement in his symptoms (minimum 20% reduction in symptoms) is observed, I continue the drug(s) with the same dose and assess the patient's clinical condition every week.	5	0.8	0.89

	Item	Quantitate face validity Quantitate cont validity		
		Impact score%	CVR	K *
25	In a patient with the acute phase of depression of bipolar disorder, if after receiving one to two weeks of the drug(s) within the therapeutic dose range, a minimum improvement in his symptoms (minimum 20% reduction in symptoms) is observed, I continue the drug(s) with the same dose and assess the patient's clinical condition every week.	4.23	0.8	0.89
26	In a patient with the acute phase of bipolar disorder, after receiving two weeks of the drug(s) within the therapeutic range, despite accepting appropriate treatment, a minimal improvement is not observed in his symptoms (minimum 20% reduction in symptoms), I will increase the drug(s) to the maximum therapeutic dose tolerated by the patient and monitor the patient again for at least two weeks with the same dose.	4.9	1	0.89
27	In a patient with the acute phase of bipolar disorder, if after receiving at least two weeks of the maximum tolerable therapeutic dose of the drug(s), a minimum improvement in the patient's symptoms (minimum 20% reduction in symptoms) is not observed, I will change the patient's drug to another.	4.9	0.8	0.89
28	In a patient with the acute phase of bipolar disorder who is receiving lithium and I decide to prescribe electroconvulsive therapy, I stop the patient's lithium one to two doses before receiving electroconvulsive therapy.	5	0.8	0.89
29	In the patient with the acute phase of bipolar disorder who is taking anti-depressant drug(s) in the acute phase of mania, I immediately stop these drugs.	4.9	1	1

	Item	Quantitate face validity	_	tate content alidity
		Impact score%	CVR	K*
30	In a patient with the acute phase of mania of bipolar disorder, based on the patient's condition, one of the drug regimens such as monotherapy with lithium, monotherapy with Divalproex, monotherapy with valproate, monotherapy with quetiapine, monotherapy with risperidone, a combination of quetiapine with I prescribes lithium or Divalproex or valproate, a combination of aripiprazole with lithium or Divalproex or valproate, combination of risperidone with lithium or Divalproex or valproate, combination of lithium with Divalproex or valproate as the first line of treatment.	4.23	1	0.79
31	In a patient with the acute phase of bipolar disorder type 1 depression, based on the patient's condition, I prescribe one of the drug regimens such as monotherapy with lithium, monotherapy with quetiapine, the combination of lamotrigine with lithium as the first line of treatment.	4.23	1	0.89
32	In a patient with the acute phase of bipolar disorder type 2 depression, based on the patient's condition, I prescribe one of the drug regimens, such as monotherapy with quetiapine or monotherapy with lithium as the first line of treatment.	5	1	1
	In patients with the acute phase of bipolar disorder, in the presence of any of the following conditions, I prescribe electroconvulsive therapy as the first line of treatment:			
33	A: High risk of suicide	5	1	1
34	B: Catatonia	5	1	0.89

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	Item		_	tate content alidity
		Impact score%	CVR	K *
35	C: Depression with psychotic signs	5	1	0.89
36	If it is decided to administer lamotrigine and valproate concurrently, I will start lamotrigine with half of the minimum allowed dose and increase it to half of the maximum allowed dose.	5	1	0.89
37	In patients with the acute phase of bipolar disorder under drug treatment, if the patient cooperates, I request tests based on clinical necessity.	4.8	0.8	0.89
38	In a patient suffering from the acute phase of bipolar disorder, I measure the lithium serum level in a stable state (at least five days after initiating or changing the dose).	5	1	1
39	In patients with the acute phase of bipolar disorder, at the beginning of treatment or changing the dose of lithium, I measure the serum level of lithium until obtaining two consecutive serum levels within the therapeutic range.	4.14	1	0.89
40	In a patient with the acute phase of bipolar disorder, I measure the lithium serum level in a stable state in the time range of 11 to 13 hours after taking the last dose (in the morning before taking the next daily dose).	4.9	1	1
	In a patient suffering from the acute phase of bipolar disorder, if the serum level of lithium is reported to be outside the therapeutic range (lower/higher), before changing the dose of the drug, I evaluate the following:			

	Item	Quantitate face validity	_	tate content alidity
		Impact score%	CVR	K *
41	A: Regular and correct use of medicine by the patient	5	1	1
42	B: Sampling time: The measurement of lithium blood level should be done in a steady state and within the time range of 11 to 13 hours after taking the last dose.	5	1	1
43	C: Patient blood sample collection technique (use of laboratory tubes containing heparin is associated with false reports of elevated serum lithium levels.)	5	0.8	1
44	E: lithium interaction with other drugs or food	5	1	1
45	F: Change in the formulation of lithium carbonate received by the patient	5	0.6	
46	G: change in the number of times of receiving lithium carbonate during the day (replacing the once-a-day regimen with a daily divided regimen)	5	0.8	0.89
47	H: Change in the patient's daily activity level	5	1	1
48	I: a balance in the volume of liquids received and lost during the day	5	1	1
49	I evaluate the frequency of daily urine discharge at each visit of the patient treated with lithium.	5	0.8	1
50	In a patient treated with a slow-release formulation of valproate, if it is decided to measure the serum level of valproate, I measure its serum level in the time range of 18-24 hours after taking the last dose (And before prescribing the next daily dose) 3 to 5 days	4.9	1	0.89

	Item		Quantitate content validity	
		Impact score%	CVR	K *
	after initiating or increasing the dose of the drug.			
51	In a patient treated with a regular formulation (non-slow release) of valproate, if it is decided to measure the serum level of valproate, I measure its serum level within the time range of 8-12 hours after the last dose (and before prescribing the next daily dose) 3 to 5 days after initiating or increasing the dose of the drug.	4.8	1	0.89
52	I teach the patient about the risk of skin rash and symptoms of Steven Johnson syndrome and toxic epidermal necrosis in the patient treated with lamotrigine or carbamazepine.	5	1	1
53	I measure the weight monthly in the first three months of initiating the drug in the patient being treated with antipsychotic drugs if the patient cooperates.	5	0.6	
54	I evaluate the symptoms of hyperprolactinemia in every visit to the patient under treatment with antipsychotic drugs if the patient cooperates.	5	0.2	

Table 1 The four factors of the MAT_{APBP} and their factor loadings $\left(N=216\right)$

Factors	Items	Factor	<i>h</i> 2	λ	% Variance
1.	9 When treatment with attraiged entirevely the days is	loading 0.832	0.659	3.925	Variance
-	8. When treatment with atypical antipsychotic drugs is planned, if the patient cooperates, I request a fasting serum	0.832	0.039	3.923	23.086
laboratory tests before	glucose (FBS) test at the baseline.				
treatment		0.827	0.662		
initiation	9. When treatment with atypical antipsychotic drugs is	0.827	0.002		
Illitiation	planned, if the patient cooperates, I request blood lipid panel at the baseline.				
		0.815	0.647		
	1. When treatment with valproate or carbamazepine is	0.815	0.047		
	planned, if the patient cooperates, I request the serum level				
	of liver enzymes (ALT, AST and ALP) at baseline.	0.011	0.640		
	4. Before initiation of treatment, if the patient cooperates, I	0.811	0.648		
	request a blood cell count (CBC) test.	0.724	0.504		
	5. When treatment with lithium is planned, if the patient	0.734	0.524		
	cooperates, I request thyroid stimulating hormone (TSH) test at baseline.				
		0.637	0.484		
	2. When treatment with lithium is planned, if the patient	0.637	0.484		
	cooperates, I request the serum creatinine level (and calculate creatinine clearance) at baseline.				
		0.595	0.484		
	3. Before initiation of treatment in female patient who is in	0.595	0.484		
	reproductive age, if the patient cooperates, I request a				
	pregnancy test.	0.545	0.244		
	6. When treatment with lithium is planned, if the patient	0.545	0.344		
	cooperates, I request the serum level of calcium at baseline.	0.052	0.002	1.067	10.002
2.	20. If measurement of serum level of valproate is planned in	0.952	0.903	1.867	10.983
monitoring	a patient treating with a non-sustained release formulation of				
during	valproate, the serum level should be taken 3 to 5 days after				
treatment	the starting or increasing of the valproate dose, within 8-12				
	hours after the last dose (and before taking the next daily				
	dose).	0.022	0.046	_	
	19. If measurement of serum level of valproate is planned in	0.932	0.846		
	a patient treating with a sustained release formulation of				

	valproate, the serum level should be taken 3 to 5 days after				
	the starting or increasing of the valproate dose, within 18-24				
	hours after the last dose (and before taking the next daily dose).				
	18. In a patient taking lithium, I evaluate the frequency of	0.517	0.289		
	daily urination at each visit.	0.517	0.209		
	17. If serum lithium level is reported outside the expected	0.423	0.235		
	treatment range, I evaluate the following before any	0.423	0.233		
	treatment intervention (change in lithium dose):				
	Regular and correct use of medication by the patient				
	Correct sampling time: Measurement of lithium blood				
	levels should be performed at steady state serum				
	concentration (achievement of steady state time) and				
	within 12 ± 0.5 hours after the last dose.				
	Interaction of lithium with other drugs or foods				
	Change in lithium taking frequency (single or divided)				
	daily dose)				
	Change in the patient's daily activity				
	balance in the input and output of daily fluids				
3. first line	14. In the acute phase of depression of type 1 bipolar	0.844	0.728	2.581	15.179
regimes	disorder, based on the patient's condition, I prescribe one of				
	the following regimens as the first line regimen of treatment.				
	• Lithium				
	• Quetiapine				
	Combination of lamotrigine with lithium COCTO COCTO				
	• Electroconvulsive therapy (ECT) in a patient with clinical manifestations of catatonia / high risk of suicide				
	/ psychotic panel				
	15. In the acute phase of depression of type 2 bipolar	0.761	0.608		
	disorder, based on the patient's condition, I prescribe one of	0.701	0.000		
	the following regimens as the first line regimen of treatment.				
	Quetiapine				
	• Lithium				
	• Electroconvulsive therapy (ECT) in a patient with				
	clinical manifestations of catatonia / high risk of suicide				

	/ psychotic panel				
	13. In the acute phase of mania of type 1 bipolar disorder,	0.480	0.240		
	based on the patient's condition, I prescribe one of the				
	following regimens as the first line regimen of treatment.				
	Lithium				
	Valproate products				
	Quetiapine				
	Risperidone				
	Combination of quetiapine with lithium / valproate				
	products				
	Combination of aripiprazole with lithium / valproate				
	products				
	Combination of risperidone with lithium / valproate				
	products				
	Combination of lithium with valproate products				
	• Electrical seizure (ECT) in a patient with clinical				
	manifestations of catatonia / high risk of suicide				
4. time	10. If a minimal improvement in the patient's symptoms (at	0.957	0.915	1.483	8.724
interval of	least a 20% reduction in symptoms) is observed after taking				
patient	the drug (s) for one to two weeks within the tolerable				
evaluation	therapeutic dose range, I continue that drug (s) continued at				
	the same dose and evaluate the patient's clinical condition				
	every week.	0.000	0.670		
	11. If no minimal improvement in the patient's symptoms	0.808	0.679		
	(reduction of at least 20% in the symptoms) is observed after				
	one to two weeks of taking the maximum tolerable dose of				
	the drug (s) in the therapeutic dose range, I change current				
	regimen to another first-line regimen or add the another				
	first-line drug to the patient's current regimen.	l		1	