A PIONEER DIAGNOSTIC CENTRE

【 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

NAME	: Miss. VINNI CHOPRA			
AGE/ GENDER	: 20 YRS/FEMALE	PAT	IENT ID	: 1435573
COLLECTED BY	:	REG.	NO./LAB NO.	: 122502110012
REFERRED BY	:	REG	ISTRATION DATE	: 11/Feb/2025 09:53 AM
BARCODE NO.	: 12506950	COLL	LECTION DATE	: 11/Feb/2025 10:16AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INST	ITUTE <b>REP</b>	ORTING DATE	: 11/Feb/2025 03:29PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	BALA CITY - HARYAN	IA	
Test Name		Value	Unit	Biological Reference interva
		AL CHEMISTRY DNEY FUNCTION	//BIOCHEMISTR TEST (BASIC)	Y
UREA: SERUM	КП			<b>Y</b> 10.00 - 50.00
by UREASE - GLUTAM	KII NATE DEHYDROGENASE (GLDH)	DNEY FUNCTION 16.82	<b>TEST (BASIC)</b> mg/dL	10.00 - 50.00
by UREASE - GLUTAM	<b>KII</b> NATE DEHYDROGENASE (GLDH) JM	DNEY FUNCTION	TEST (BASIC)	
by UREASE - GLUTAM CREATININE: SERU by ENZYMATIC, SPEC BLOOD UREA NITR	KII NATE DEHYDROGENASE (GLDH) JM TROPHOTOMETERY COGEN (BUN): SERUM	DNEY FUNCTION 16.82	<b>TEST (BASIC)</b> mg/dL	10.00 - 50.00
by UREASE - GLUTAM CREATININE: SERU by ENZYMATIC, SPEC BLOOD UREA NITR by CALCULATED, SPE BLOOD UREA NITR	KII hate dehydrogenase (gldh) JM trophotometery	DNEY FUNCTION 16.82 0.88	T <b>TEST (BASIC)</b> mg/dL mg/dL	10.00 - 50.00 0.40 - 1.20
by UREASE - GLUTAM CREATININE: SERU by ENZYMATIC, SPEC BLOOD UREA NITR by CALCULATED, SPE BLOOD UREA NITR RATIO: SERUM	KII AATE DEHYDROGENASE (GLDH) JM TROPHOTOMETERY OGEN (BUN): SERUM COTROPHOTOMETERY OGEN (BUN)/CREATININE	DNEY FUNCTION 16.82 0.88 7.86	TEST (BASIC) mg/dL mg/dL mg/dL	10.00 - 50.00 0.40 - 1.20 7.0 - 25.0
by UREASE - GLUTAM CREATININE: SERU by ENZYMATIC, SPEC BLOOD UREA NITR by CALCULATED, SPE BLOOD UREA NITR RATIO: SERUM by CALCULATED, SPE UREA/CREATININ	KII ATE DEHYDROGENASE (GLDH) JM TROPHOTOMETERY 20GEN (BUN): SERUM 20GEN (BUN)/CREATININE 20GEN (BUN)/CREATININE 20GEN (BUN)/CREATININE	DNEY FUNCTION 16.82 0.88 7.86	TEST (BASIC) mg/dL mg/dL mg/dL	10.00 - 50.00 0.40 - 1.20 7.0 - 25.0
by UREASE - GLUTAM CREATININE: SERU by ENZYMATIC, SPEC BLOOD UREA NITR by CALCULATED, SPE BLOOD UREA NITR RATIO: SERUM by CALCULATED, SPE UREA/CREATININ	KII AATE DEHYDROGENASE (GLDH) JM TROPHOTOMETERY 20GEN (BUN): SERUM 20GEN (BUN)/CREATININE 20GEN (BUN)/CREATININE 20GEN (BUN)/CREATININE 20GEN (BUN)/CREATININE	DNEY FUNCTION 16.82 0.88 7.86 <b>8.93<sup>L</sup></b>	TEST (BASIC) mg/dL mg/dL mg/dL RATIO	10.00 - 50.00 0.40 - 1.20 7.0 - 25.0



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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

**NOT VALID FOR MEDICO LEGAL PURPOSE** 



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COLLECTED BY         :         REG. NO./LAB NO.         :         12           REFERRED BY         :         REGISTRATION DATE         :         11.7           BARCODE NO.         :         12506950         COLLECTION DATE         :         11.7	5573
REFERRED BY       ::       REGISTRATION DATE       :11.         BARCODE NO.       :12506950       COLLECTION DATE       :11.         CLIENT CODE       :P.K.R JAIN HEALTHCARE INSTITUTE       REPORTING DATE       :11.         CLIENT ADDRESS       :NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA       Interview of the second secon	
BARCODE NO.       : 12506950       COLLECTION DATE       : 11.         CLIENT CODE.       : P.K.R JAIN HEALTHCARE INSTITUTE       REPORTING DATE       : 11.         CLIENT ADDRESS       : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA       Interpretation       Interpretation         Morinal range for a healthy person on normal diet: 12 - 20       To Differentiate between pre- and postrenal azotemia.       INCRASED RATIO (>20:1) WITH NORMAL CREATININE:         1. Nerrenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydrat glomerular filtration rate.       2. Catabolic states with increased tissue breakdown.         3. Gl hemorrhage.       4. High protein intake.       5. Impaired renal function plus .         6. Excess protein intake.       5. Maging (and the protein intake.       5. Impaired renal function plus .         8. Reduced muscle mass (subnormal creatinine production)       9. Certain drugs (e.g. tetracycline, glucocorticoids)         NCREASED RATIO (>20.1) WITH ELEVATED CREATININE ELVELS:       1. Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy).         9. Certain drugs (e.g. tetracycline, glucocorticoids)       1. Certain drugs (e.g. tetracycline, glucocorticoids)         1. Acute tubular necrosis.       2. Dw protein diet and starvation.       3. Severe liver disease.         4. Other causes of decreased urea synthesis.       5. Repeated dialysis (urea rather than creatinine diffuses out of extracell	502110012
CLIENT CODE.       : P.K.R JAIN HEALTHCARE INSTITUTE <b>REPORTING DATE</b> : 11.         CLIENT ADDRESS       : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA <b>Test Name Value Unit</b> <i>INTERPETATION:</i> Normal range for a healthy person on normal diet: 12 - 20       To Differentiate between pre- and postrenal azotemia.       INCRASED RATIO (>20.1) WITH MORMAL CREATININE:       I. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydrat glomerular filtration rate.         2. Catabolic states with increased tissue breakdown.       3.G hemorrhage.       4. High protein intake.       5. Impaired renal function plus .         6. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cu burns, surgery, cachexia, high fever).       I. Vin ereabsorption (e.g. ureterocolostomy)         8. Reduced muscle mass (subnormal creatinine production)       9. Certain drugs (e.g. tetracycline, gluccorticoids)       9. Certain drugs (e.g. tetracycline, gluccorticoids)         I/CREASED RATIO (<20:1) WITH DECREASED BUN :       1. Acute tubular necrosis.       2. Perenal azotemia superimposed on renal disease.         Decreased dialysis (urea rather than creatinine diffuses out of extracellular fluid).       6. Inherited hyperammonemias (urea is virtually absent in blood).       3. Severe liver disease.         9. Other causes of decreased urea synthesis.       5. Repeated dialysis (releases muscle creatinine).       1. Phenacimide therapy (accelerates conversion o	Seb/2025 09:53 AM
CLIENT ADDRESS       : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA         Test Name       Value       Unit         MTERPRETATION:       Normal range for a healthy person on normal diet: 12 - 20       To Differentiate between pre- and postrenal azotemia.         INCREASED RATIO (>20:1) WITH NORMAL CREATININE:       I. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydrat glomerular filtration rate.       I. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydrat glomerular filtration rate.         2. Catabolic states with increased tissue breakdown.       3. GI hemorrhage.         4. High protein intake.       5. Inpaired renal function plus .         6. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cu burns, surgery, cachexia, high fever).         7. Urine reabsorption (e.g. ureterocolostomy)         8. Reduced muss(e mass (subnormal creatinine production)         9. Certain drug (e.g. Letraccline, glucocorticoids)         INCREASED RATIO (>20:1) WITH DECREASED BUN :         1. Acute tubular necrosis.         2. Dependent diet and starvation.         3. Severe liver disease.         4. Other causes of decreased urea synthesis.         5. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid).         6. Inherited hyperanmonemias (urea is virtually absent in blood).         7. Stepgn	eb/2025 10:16AM
Test Name       Value       Unit <i>INTERPRETATION:</i> Normal range for a healthy person on normal diet: 12 - 20       To Differentiate between pre- and postrenal azotemia.         INCREASED RATIO (<20:1) WITH NORMAL CREATININE:       1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydrat glomerular filtration rate.         2. Catabolic states with increased tissue breakdown.       3.GI hemorrhage.         3.GI hemorrhage.       4. High protein intake.         5. Impaired renal function plus .       6. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cu burns, surgery, cachexia, high fever).         7. Urine reabsorption (e.g. ureterocolostomy)       8. Reduced muscle mass (subnormal creatinine production)         9. Certain drugs (e.g. tetracycline, glucocorticoids)       1. Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy).         2. Prerenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy).       2. Prerenal azotemia superimposed on renal disease.         DECREASED RATIO (<10:1) WITH DECREASED BUN :       1. Acute tubular necrosis.         3. Severe liver disease.       3. Other causes of decreased urea synthesis.         5. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid).         6. Inherited hyperammonemias (urea is virtually absent in blood).         7. SADH (syndrome of inappropiate antidi	eb/2025 03:29PM
INTERPRETATION: INTERPRETATION: Normal range for a healthy person on normal diet: 12 - 20 To Differentiate between pre- and postrenal azotemia. INCREASED RATIO (>20:1) WITH NORMAL CREATININE: 1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion,dehydrat glomerular filtration rate. 2. Catabolic states with increased tissue breakdown. 3. Gl hemorrhage. 4. High protein intake. 5. Impaired renal function plus . 6. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cu burns,surgery, cachexia, high fever). 7. Urine reabsorption (e.g. ureterocolostomy) 8. Reduced muscle mass (subnormal creatinine production) 9. Certain drugs (e.g. tetracycline, glucocorticoids) INCREASED RATIO (>20:1) WITH ELEVATED CREATININE LEVELS: 1. Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Prerenal azotemia superimposed on renal disease. DECREASED RATIO (<10:1) WITH DECREASED BUN : 1. Acute tubular necrosis. 2. Low protein diet and starvation. 3. Severe liver disease. 4. Other causes of decreased urea synthesis. 5. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid). 6. Inherited hyperammonemias (urea is virtually absent in blood). 7. SIADH (syndrome of inappropiate antidiuretic harmone) due to tubular secretion of urea. 8. Pregnancy. DECREASED RATIO (<10:1) WITH INCREASED CREATININE: 1. Phenacimide therapy (accelerates conversion of creatine to creatinine). 2. Rhabdomyolysis (releases muscle creatinine). 3. Muscular patients who develop renal failure. INAPROPIATE RATIO: 1. Diabetic ketoacidosis (acetoacetate causes false increase in creatinine with certain methodologies, ressould produce an increased BUN/creatinine ratio).	
Normal range for a healthy person on normal diet: 12 - 20         To Differentiate between pre- and postrenal azotemia.         INCREASED RATIO (>20:1) WITH NORMAL CREATININE:         1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydrat glomerular filtration rate.         2. Catabolic states with increased tissue breakdown.         3. Gl hemorrhage.         4. High protein intake.         5. Impaired renal function plus .         6. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cu burns, surgery, cachexia, high fever).         7. Urine reabsorption (e.g. ureterocolostomy)         8. Reduced muscle mass (subnormal creatinine production)         9. Certain drugs (e.g. tetracycline, glucocorticoids)         INCREASED RATIO (>20:1) WITH LEVATED CREATININE LEVELS:         1. Postrenal azotemia superimposed on renal disease.         DECREASED RATIO (<10:1) WITH DECREASED BUN :         1. Acute tubular necrosis.         2. Low protein diet and starvation.         3. Severe liver disease.         4. Other causes of decreased urea synthesis.         5. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid).         6. Inherited hyperammonemias (urea is virtually absent in blood).         7. SIADH (syndrome of inappropiate antidiuretic harmone) due to tubular secretion of urea.         8. Pr	<b>Biological Reference interval</b>





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

## **PKR JAIN HEALTHCARE INSTITUTE** NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

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REFERRED BY         :           BARCODE NO.         : 12506950		<b>REGISTRATION DATE</b>		: 11/Feb/2025 09:53 AM
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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD,	AMBALA CITY - HARYAN	A	
Test Name		Value	Unit	<b>Biological Reference interval</b>
	EI	ECTROLYTES COM	PLETE PROFILE	
SODIUM: SERUM by ISE (ION SELECTIV		140.2	mmol/L	135.0 - 150.0
POTASSIUM: SERUM	M	4.48	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE)		105.15	mmol/L	90.0 - 110.0
INTERPRETATION:- SODIUM:- Sodium is the major of balance & to transmit HYPONATREMIA (LOV 1. Low sodium intake. 2. Sodium loss due to 3. Diuretics abuses.	cation of extra-cellular fluid. It nerve impulse. <b>V SODIUM LEVEL) CAUSES:-</b> diarrhea & vomiting with adee			maintain osmotic pressure & acid base
INTERPRETATION:- SODIUM:- Sodium is the major of balance & to transmit HYPONATREMIA (LOV 1. Low sodium intake. 2. Sodium loss due to 3. Diuretics abuses. 4. Salt loosing nephro 5. Metabolic acidosis 6. Adrenocortical issu 7.Hepatic failure.	cation of extra-cellular fluid. If t nerve impulse. <b>V SODIUM LEVEL) CAUSES:-</b> diarrhea & vomiting with ader opathy. ficiency . <b>CREASED SODIUM LEVEL) CAUSI</b> aged)	quate water and iadequat		maintain osmotic pressure & acid base





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Test Name	Value	Unit	<b>Biological Reference interval</b>

4. Hemolysis of blood





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CLIENT CODE.	: P.K.R JAIN HEALTHCARE IN	STITUTE <b>RE</b>	PORTING DATE	: 11/Feb/2025 05:32PM
CLIENT ADDRESS	LIENT ADDRESS : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA		ANA	
Tost Namo		Value	Unit	Rialogical Reference interval
Test Name		Value	Unit	Biological Reference interval
Test Name		Value LITHI		Biological Reference interva
Test Name LITHIUM: SERUM by ISE (ION SELECTIV	'E ELECTRODE)			<b>Biological Reference interval</b> 0.30 - 1.50

Therapeutic	mmol/L	0.6 - 1.2
Potentially toxic	mmol/L	1.5 - 2.5
Severely toxic	mmol/L	> 2.5

1.Serum Lithium levels are useful for monitoring therapy of patients with bipolar disorders, including recurrent episodes of mania and depression and for evaluation of toxicity

2.Lithium alters the intraneuronal metabolism of catecholamines by an unknown mechanism. It is used to suppress the manic phase of manicdepressive psychosis.

3.Lithium is distributed throughout the total water spaces of the body and is excreted primarily by the kidney.

4. Toxicity from lithium salts leads to ataxia, slurred speech, and confusion.

5. Since the concentration of lithium in the serum varies with the time after the dose, blood for lithium determination should be drawn at a standard time, preferably 8 to 12 hours after the last dose (trough values).

NOTE:-Values above 1.6 mmol/L (trough values) are generally considered toxic and are indicative of dose modulation.



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: P.K.R JAIN HEALTHCARE INSTITUT	TE <b>Rep</b>	ORTING DATE	: 11/Feb/2025 01:59PM
CLIENT ADDRESS : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA			
	Value	Unit	Biological Reference interval
	ENDOCRIN	OLOGY	
		OLUGI	
	DID FUNCTIO	N TEST: TOTAL	
	1.35	<b>N TEST: TOTAL</b> ng/mL	0.35 - 1.93
THYRO NE (T3): SERUM			0.35 - 1.93 4.87 - 12.60
<b>THYRO</b> IE (T3): SERUM escent microparticle immunoassay) ERUM	1.35	ng/mL	
	: 20 YRS/FEMALE : : : 12506950 : P.K.R JAIN HEALTHCARE INSTITUT : NASIRPUR, HISSAR ROAD, AMBAL	: 20 YRS/FEMALE PAT : REG : REG : 12506950 COL : P.K.R JAIN HEALTHCARE INSTITUTE REP : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYAN	: 20 YRS/FEMALEPATIENT ID:REG. NO./LAB NO.:REGISTRATION DATE: 12506950COLLECTION DATE: P.K.R JAIN HEALTHCARE INSTITUTEREPORTING DATE: NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA

TSH levels are subject to circadian variation, reaching peak levels between 2-4 a.m and at a minimum between 6-10 pm. The variation is of the order of 50%. Hence time of the day has influence on the measured serum TSH concentrations. TSH stimulates the production and secretion of the metabolically active hormones, thyroxine (T4) and triiodothyronine (T3). Failure at any level of regulation of the hypothalamic-pituitary-thyroid axis will result in either underproduction (hypothyroidism) or overproduction(hyperthyroidism) of T4 and/or T3.

CLINICAL CONDITION	T3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

#### LIMITATIONS:-

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (e.g.: phenytoin , salicylates).

3. Serum T4 levels in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothyroidism, pregnancy, phenytoin therapy.

TRIIODOTHYRONINE (T3)		THYROX	THYROXINE (T4)		THYROID STIMULATING HORMONE (TSH)		
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range ( µIU/mL)		
0-7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3		
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00		
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 – 17.04	3 Days – 6 Months	0.70 - 8.40		
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00		





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Test Name		Value	lue Unit		Biological Reference interva	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECON	MMENDATIONS OF TSH LE	EVELS DURING PRE	GNANCY ( µIU/mL)		
	1st Trimester			0.10 - 2.50		
	2nd Trimester			0.20 - 3.00		
	3rd Trimester			0.30 - 4.10		

#### **INCREASED TSH LEVELS:**

1. Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

4.DRUGS: Amphetamines, iodine containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

### DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

2. Over replacement of thyroid hormone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4.Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis. 8.Pregnancy: 1st and 2nd Trimester

\*\*\* End Of Report \*\*\*





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