

dr paws

Biochemical Inspection Report

Species: Dog ID: Patient: benzo
 Owner: Hussein El-Alfy Gender: Male Age: 6 Years
 Sample Type: Whole Blood Diagnosis:
 LOT: 34220-10-0148-0227-89-250651-16357

Item	Result	Unit	Ranges	Indicator		
				Low	Normal	High
TP	7.90	g/dL	5.2-8.2	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
ALB	3.60	g/dL	2.2-4.4	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
GLO	4.30	g/dL	2.3-5.2	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
A/G	0.80			<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
TBIL	0.36	mg/dL	0.1-0.9	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
AST	63.0	U/L	8.9-55	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: red;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
ALT	44.0	U/L	10-140	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
AST/ALT	1.43			<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
GGT	1.20	U/L	0-7	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
ALP	25.0	U/L	20-150	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
TBA	4.85	umol/L	0-20	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
BUN	9.71	mg/dL	7-32	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
CRE	1.10	mg/dL	0.3-1.7	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
BUN/CRE	9.00			<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
AMY	1045.0	U/L	200-1800	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
LPS	60.40	U/L	0-258	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
GLU	17.0	mg/dL	70-143	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; left: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: blue;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
CHOL	180.0	mg/dL	110-320	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
K+	5.61	mmol/L	3.7-5.8	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
Na+	148.0	mmol/L	138-160	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
Na+/K+	26.0			<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
Cl-	121.0	mmol/L	106-130	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
tCO2	18.0	mmol/L	12-27	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
Ca	10.50	mg/dL	7.9-11.8	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
P	4.19	mg/dL	2.5-6.8	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
Ca*P	44.0	mg/dL		<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>
AG	10.00	mmol/L		<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>	<div style="width: 100%; border: 1px solid black; position: relative;"><div style="position: absolute; right: 0; top: 50%; transform: translateY(-50%); width: 10%; height: 10px; background-color: black;"></div></div>

Item	Clinical significance
TP	Commonly seen in dehydration and the increase of immunoglobulin; Commonly seen in malnutrition, chronic inflammation, diseases related to liver, kidney and gastrointestinal canal;
ALB	Commonly seen in dehydration; Commonly seen in malnutrition, damage of liver function, massive bleeding, parasite and other consumptive diseases related to intestinal tract;
GLO	Commonly seen in chronic inflammation and infection; No clinical significance;
A/G	Reduction is common in liver diseases (such as chronic hepatitis, cirrhosis, liver cancer, liver injury, etc.), nephrotic syndrome, acute and chronic nephritis, infection or malnutrition.
TBIL	Commonly seen in abnormal function of liver and gallbladder; Commonly seen in anemia;

Remark: Due to the complexity and individuality of the test results of specific cases, the interpretation of clinical significance is for reference only and cannot serve as the evidence for specific disease diagnoses.

Submit Datetime: 2025-11-05 19:18 Analysis Datetime: 2025-11-05 19:48 Print Datetime: 2025-11-05 19:44
 Submitt: Operator: Reviewer:

Remark: *The result is only responsible for this sample*

AST	Commonly seen in diseases of the liver and biliary system, bone and muscle diseases, myocarditis, myocardial infarction and metabolic disorder; Commonly seen in Vitamin B6 deficiency and hepatocirrhosis;
ALT	Commonly seen in primary hepatocellular disease, diseases of the liver and biliary system, metabolic disorder and secondary liver disease; No clinical significance;
AST/ALT	To judge the course, severity, prognosis of liver disease. It is an important parameter in the diagnosis, differential diagnosis, judge progress and changes of acute and chronic hepatitis.
GGT	Commonly seen in diseases of liver and bile, blockage of bile vessel, icterus and acute pancreatitis; No clinical significance;
ALP	Commonly seen in diseases of liver and bile, therioma and drug effects; Commonly seen in hypothyrea and Zinc deficiency;
TBA	High total bile acid indicates hepatic cell pathological change and elevated bile acid content in the blood; common in acute and chronic viral hepatitis, bile stasis, chronic alcoholism, cirrhosis, primary liver cancer, biliary infarction, etc.
BUN	Commonly seen in renal lesions, excessive decomposition of protein and high protein intake; Commonly seen in hepatic failure and deficiency of protein absorption;
CRE	Commonly seen in kidney diseases; Commonly seen in malnutrition and muscular atrophy;
BUN/CRE	Higher Ratio is more common in fever, dehydration, gastrointestinal bleeding, cardiac insufficiency, hepatorenal syndrome, urinary tract obstruction, high-protein diet, etc .; lower ratio is more common in hunger, low-protein diet, combined with severe liver failure, use Diuretic drugs, etc.
AMY	Commonly seen in pancreatitis, renal lesions and diseases of intestinal mucosa; Commonly seen in pancreatic necrosis caused by blockage of pancreatic duct;
LPS	Elevation is common in acute pancreatitis, chronic pancreatitis, pancreatic cancer, and hepatobiliary diseases and serum lipases is elevated to varying degrees as well.
GLU	Commonly seen in hypoinsulinism; Commonly seen in malnutrition, cacochylia and chronic anemia;
CHOL	Commonly seen in cryptorrrhea and endocrine disorder; Commonly seen in excessive exercise, malnutrition, progressive liver disease and hyperthyroidism;
K+	Commonly seen in diseases of kidney, blood circulation disorder caused by heart failure and sample hemolysis; Commonly seen in severe diarrhea, emesia and malnutrition;
Na+	Commonly seen in dehydration, edema, salt poisoning or kidney failure, adrenal gland hyperfunction; Commonly seen in progressive kidney failure and excessive fluid infusion;
Na+/K+	Reduction is more common in urinary system diseases, nephropathy, adrenal insufficiency and hemolysis.
Cl-	Commonly seen in dehydration, hypouresis and hyperadrenocorticism; Commonly seen in severe diarrhea and emesia;
tCO2	Commonly seen in metabolic alkalosis, respiratory acidosis; Commonly seen in metabolic acidosis, respiratory alkalosis;
Ca	Commonly seen in hypercalcinemia, primary parathyroidism and multiple myeloma; Commonly seen in hypocalcemia and absorption disorder of small intestine;
P	Commonly seen in bone healing, growth period and kidney diseases; Commonly seen in unbalanced diet and hyperthyroidism;
Ca*P	Low value: hinder bone calcification, and even dissolve bone salt, which affects osteogenesis; High value: Calcium and phosphorus in form of bone salt are deposited in bone tissue, prone to calcification of soft tissues (blood vessels, skin, muscles)
AG	It is often used to evaluate acid-base disorders and is used as an auxiliary diagnosis for different types of metabolic acidosis and mixed acid-base imbalance. \n" "AG elevation: common in metabolic acidosis with retention of ketoacids, lactate, phosphate, or sulfate and decreased bicarbonate.\n" "AG reduction: can be seen in hypoalbuminemia, metabolic alkalosis, multiple myeloma, hypermagnesemia, hypercalcemia and lithium poisoning, etc.

Remark: Due to the complexity and individuality of the test results of specific cases, the interpretation of clinical significance is for reference only and cannot serve as the evidence for specific disease diagnoses.

Submit Datetime:	2025-11-05 19:18	Analysis Datetime:	2025-11-05 19:48	Print Datetime:	2025-11-05 19:44
Submitt:		Operator:		Reviewer:	
Remark:	<i><u>The result is only responsible for this sample</u></i>				
