gravity	intake: 1.016 to		Presence of protein or glucose
	1.022		Presence of radiopaque contrast
	Newborn: 1.001 to		medium after radiologic
	1.020		examinations
	Others: 1.001 to	Low	Excessive fluid intake
	1.030		Distal tubular dysfunction
			Insufficient ADH
			Diuresis
Osmolality	Newborn: 50 to 600	Fixed at 1.010	Chronic glomerular disease
	mOsm/L		Ü
	Thereafter: 50 to	High or low	Same as for specific gravity
	1400 mOsm/L		More sensitive index than specific
			gravity
Appearance	Clear pale yellow to	Cloudy	Contains sediment
	deep gold	Cloudy reddish	Blood from trauma or disease
		pink to reddish	Myoglobin after severe muscle
		brown	destruction
		Light	Dilute
		Dark	Concentrated
		Red	Trauma
Chemical Tests			
pН	Newborn: 5 to 7	Weak acid or	If associated with metabolic acidosis,
	Thereafter: 4.8 to	neutral	suggests tubular acidosis
	7.8	Alkaline	If associated with metabolic alkalosis,
	Average: 6		suggests potassium deficiency
			Urinary infection
			Metabolic alkalosis
Protein	Absent	Present	Abnormal glomerular permeability
level			(e.g., glomerular disease, changes in
			blood pressure)
			Most kidney disease
	41 .	<b>D</b> .	Orthostatic in some individuals
Glucose	Absent	Present	Diabetes mellitus
level			Infusion of concentrated glucose-
			containing fluids
			Glomerulonephritis
T/ . I	A 1	Danasa	Impaired tubular reabsorption
Ketone levels	Absent	Present	Conditions of acute metabolic
levels			demand (stress) Diabetic ketoacidosis
Laulcaarta	Absent	Dwagant	
Leukocyte esterase	Absent	Present	Can identify both lysed and intact WBCs via enzyme detection
Nitrites	Absent	Present	Most species of bacteria convert
Millies	Absem	riesent	nitrates to nitrites in the urine
Microscopic Tests			
WBC count <1 or 2 >5 Urinary tract inflammatory process			
WDC Count	1 01 4	polymorphonuclear	Cimary tract initialititatory process
		leukocytes/field	
		Lymphocytes	Allograft rejection
		Lymphocytes	Malignancy
RBC count	<1 or 2	4 to 6/field in	Trauma
KDC COUIT	\1 UI Z	centrifuged	Stones
		specimen	Glomerular injury
		specimen	Infection
			Neoplasms
Presence of	Absent to a few	>100,000	UTI
bacteria	1105CIII IO a IEW	organisms/ml in	
Dacteria		centrifuged	
	l	cammagea	