

RENAL TUBULAR ACIDOSIS

AFFECTS THE RENAL TUBULES AND RESULTS IN A HYPERCHLOREMIC METABOLIC ACIDOSIS WITH A NORMAL SERUM ANION GAP

TYPE 1 DISTAL RTA

IMPAIRED
HYDROGEN ION
SECRETION

RENAL
STONES

URINE
pH > 5.5

HYPOKALEMIA

TYPE 2 PROXIMAL RTA

IMPAIRED
BICARBONATE
REABSORPTION

HIGH URINE
pH INITIALLY,
LATER < 5.5

HYPOKALEMIA

TYPE 4 HYPERKALEMIC RTA

DECREASED ALDOSTERONE
SECRETION OR ALDOSTERONE
RESISTANCE

URINE pH < 5.5

HYPERKALEMIA

BOWMAN'S
CAPSULE

PROXIMAL TUBULE

LOOP
OF HENLE

DISTAL TUBULE

COLLECTING
DUCT