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## Urea Kidney Schmidt Nielsen Bodil Excerpta Medica

**the effect of urea loading on volume and concentration of ...** - tran sportof urea in the kidney (schmidt-nielsen & o'dell, 1959; clapp, 1966); and also because on such a diet the effect of urea loading is quickly apparent in increased urinary urea output. the diet consisted of powdered 'diet 18' (bruce & parkes, 1946) mixed with an equal weight of glucose, with the addition of 2 g **the renal pelvis - kidney-international - kidney international**, vol. 31(1987), pp. 621—628 the renal pelvis b0dil schmidt—nielsen mount desert island biological laboratory, salisbury cove, maine, usa mammals and birds are the only vertebrates known to produce a concentrated urine by means of renal medullary countercurrent systems. these two countercurrent systems, **urea transport in kidney brush-border membrane vesicles ...** - in the dogfish kidney, urea reabsorption is active and selective for amide or amide-like compounds (schmidt-nielsen and rabinowitz, 1964), inhibitable by phloretin (hays et al., 1976), and appears to be linked to sodium reabsorption (schmidt-nielsen et al., 1972). although several models have been **437lect31 osmoregulation ch26n27 sp2009 - kidney functions:-osmoregulation-blood volume regulation-maintain proper ion concentrations ... -low urea and nacl permeability-permeable to water ascending thin limb ... knut schmidt\_nielsen 1997 excretion of nitrogeneous waste. 26 knut schmidt\_nielsen 1997 85 86 osmoregulation mechanisms in gills, salt glands, and kidneys** - -low urea and nacl permeability-permeable to water ascending thin limb-no active nacl transport-but permeable to nacl-low urea permeablity-low water permeability ascending thick limb-nacl transported out of tubule-low water permeability one driver of concentrating mechanism of nephron knut schmidt\_nielsen 1997 countercurrent multiplier 61 **effect of osmotic stress on expression of a putative ...** - reabsorption in the kidney. it has been reported that in anurans, urea is reabsorbed across the renal tubule in the kidney and also in the urinary bladder (schmidt-nielsen and lee, 1962; shpun and katz, 1995). anuran amphibians accumulate a large amount of urea in their extracellular fluids to avoid a severe dehydration **ammonia and urea metabolism in relation to gill function ...** - the low effective permeability of the kidney to urea has been well studied (see hickman and trump, 1969, for a review of the earlier literature). in brief, retention appears to be facilitated by an active transport mechanism (schmidt-nielsen and rabinowitz, 1964; schmidt-nielsen et al.1972; hays et al. 1977) superimposed on an anatomically complex **influence of protein intake on renal function in the ...** - urea in the fluid until a urea gradient, in the tubular fluid, is created which allows urea to diffuse passively into the medulla. schmidt-nielsen and o'dell (1958) suggest that the thick ascending limb of henle's loop actively reabsorbs urea. schmidt-nielsen (1958) postulated that urea is **composition of renal medullary tissue** - values for urine and papillary interstitial sodium and urea concentration from lee, morgan and williams [34]. an accu-mulation of sodium and urea was found after 48 hours of dehydration which was not present in rats homozygous for diabetes insipidus. schmidt—nielsen [36] calculated intracellu- **greatly elevated urea excretion after air exposure appears ...** - were "pulsed" simultaneously to urea at different rates (wood et al. 1998; mcdonald et al. 2000). indeed, the differential ability of various urea transporters to handle different analogs of urea has proven to be diagnostic of the presence and cate-gorization of urea transporters in fish (schmidt-nielsen and **mary ella c. pruit, mark a. knepper, bruce graves and ...** - effect of peristaltic contractions of the renal pelvic wall on solute concentrations of the renal inner medulla in the hamster mary ella c. pruit,1 mark a. knepper,1 bruce graves,2 and bodil schmidt-nielsen2 1laboratory of kidney and electrolyte metabolism, national heart, lung, and blood institute, national institutes of health, bethesda, maryland; and 2mount desert island biological ...

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