DEHYDRATION AND OVERHYDRATION IN CHAMELEONS

GOLDEN RULE

Ensure Good Hydration for the chameleons; observe, measure, analyze and adjust: in case of dehydration, slowly add water in the regime and in case of overhydration, provide less, in utilizing the most natural ways of hydration possible.

			Asp	pect	Dehydration	Good Hydration	Hyperhydration				
			Mucous m	nembranes	Dry	Naturally moist	Wet, with foam				
			Saliva v	viscosity	Viscous, sticky	Somewhat sticky, moist	Liquid, less viscous				
Aspect	Dehydration	Good Hydration	Hyperhydration		MO	UTH	A	lspect	Dehydratio	n Good Hyd	ration Hyperhy
ve activity	Slow, limited moveability	Rapid, active full moveability	Slow, limited moveability Bulged out of the				Elasticity	(skinfold test)	Not elastic (skir stays)	n fold Elastic (sk disappe:	edematic
e position	Sunken, deep in the orbit	Naturally protruding from the orbit			1			exture	Dry, Pergamen wrinkly	e-like, Naturally stre	ched, no Swollen, e
	With deep fissure ring	Naturally stretched on the eyes with no or		EYES			SKIN	Colors	Unusual, often da more vivid, sh yellow tone	ift to	
Eye lids	around turrets, thin circular wrinkles Human-eye-shape,	slight wrinkles in the direction of sight	circular edematic wrinkles			ATION		and muscles	Clearly unnatu visible especial vertebrae, pelvis	rally Naturally h ly on covered, visi	ble only
d opening	subelliptic and pointed in corners	Circular, central position above pupil	Subcircular, deformed, pear-shaped, eccentric		DIAGN FEAT			ar region	extremities Sunken, bor	when in a	ction Swollen (
							$\langle -$				guiai U
Aspe	ect Dehydra	tion Good Hyd	Iration Hyperhydrat	tion FAEC	ES	URATES	Aspect	De	hydration	Good Hydration	Hyperhydration
Cold	or Black	k Black, dark	brown Pale, greyish, brown	light			Color	More th	an 50% orange	15-50% orange	Less than 15% orange often completely whit
Water co	ontent Dry			^{*)} In t	heir typical express	sion - subject of variability.	Consistency	Dry, har	rd, compressed	Dry, hard, cylindrical	Moist to wet, toothpaste-like,
Sluggish co	omponent Abser	nt Absent or p not fogged		ng the				Aln	nost none,		amorphous Moist to wet, watery
Sme	ell Weak, som	I Weak n	Heavy, often rot or reminding chemicals	on			Water content		very dry	Dry, chalk-like	sluggish

EXAMPLES OF CORRECT AND INCORRECT STATE OF HYDRATION IN CHAMELEONS



The proper hydration of chameleons is key to their survival in the wild and to their welfare in captivity. Both dehydration as well as hyperhydration are dangerous states, as their consequence is a breakdown of the homeostasis due to wrong concentrations of the important body liquids (from blood, lymph to digestion enzymes, tissue liquids and cytoplasm) and organ failures. To define the proper hydration is important, the more important, especially for captive management, is to understand properly the signs of dehydration and hyperhydration.

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