

## Lack of effect of specific sodium hunger on learned aversions to sodium and sucrose

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Frumkin (1975) reported that sodium-deficient rats fail to learn taste aversions to NaCl. However, those rats were sodium-deficient at the time of testing as well as at the time of training; any learned aversion could have been masked by a strong sodium hunger. Rats were made temporarily sodium-hungry by injections of Formalin or aldosterone. They were then poisoned after drinking both an NaCl and a sucrose solution. Several days later they were tested for learned aversions. Rats trained under the influence of aldosterone did not differ from controls. Rats trained under the influence of Formalin acquired slightly weaker aversions to both NaCl and sucrose. Thus there is no evidence that sodium deficiency alters the associability of NaCl with poison.

Rats which are poisoned after ingesting some substance acquire an aversion to the taste of that substance (Garcia, Ervin, & Koelling, 1966; Garcia & Koelling, 1966; Rozin & Kalat, 1971). If a rat drinks more than one solution prior to poisoning, it may acquire a stronger aversion to one solution than to the other (Kalat & Rozin, 1970). One determinant of the salience of various tastes in this situation is their novelty; rats which drink two solutions prior to poisoning acquire a stronger aversion to the more novel solution (Kalat, 1974; Revusky & Bedarf, 1967).

Frumkin (1975) has recently proposed an additional determinant of how associable a taste is with poison. He reported that sodium-deficient rats learned much weaker aversions than normal rats if the taste of NaCl was paired with poison. Similarly, calcium-deficient rats learned weaker than normal aversions if calcium was paired with poison. Such results suggest a possible predisposition of rats to avoid associating a taste with poison while they have a specific hunger for that taste.

However, another, less interesting, interpretation is possible. Frumkin produced sodium deficiency and calcium deficiency by removal of the adrenal and parathyroid glands, respectively. Because these removals are permanent, the rats were sodium- or calcium-deficient at the time of testing as well as the time of training. It is certainly possible that these rats had learned aversions to sodium or calcium, but that the specific hungers for these minerals overrode the aversions (see Cullen, 1969; Rozin & Kalat, 1971; Stricker & Wilson, 1970). For analogy, if an experi-

menter paired breathing with shock and the animals failed to stop breathing, it would not be proper to conclude that they had failed to learn.

In order to test the effect of sodium hunger on the associability of sodium with poison, it would be best to produce a temporary sodium hunger which could be present at the time of training but absent during the test. In Experiment 1, we produced temporary sodium deficiency by injections of Formalin. In Experiment 2, we produced sodium hunger without sodium deficiency by injections of aldosterone.

The experiments were designed to minimize one other possible problem in the interpretation of results. Suppose that sodium-deficient rats learned either a stronger or a weaker aversion to NaCl than the normal rats. A possible interpretation would be that the poison was either more aversive or less aversive, respectively, to the sodium-deficient rats. (The latter possibility is not totally implausible. It could be that when a rat is already ill, a further increase in illness might be less significant to the rat than if the rat had previously been healthy.) To avoid this problem, we poisoned sodium-hungry rats after they drank both a sucrose solution and an NaCl solution. We could conclude that sodium hunger altered the associability of NaCl only if the sodium-hungry rats showed either a stronger or weaker NaCl aversion than the controls, *without* showing a correspondingly stronger or weaker aversion to sucrose.

### EXPERIMENT 1

#### Method

The subjects were 40 adult female rats, mean weight 285 g, which had been born and reared in the authors' laboratory. The ancestry was mixed, consisting mostly of Sprague-Dawley albino; however, pigmented rats were used preferentially for breeding.

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# Sodium Hunger

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