

ether. Experiments now in progress seem to indicate that the acetone extract of egg yolk possesses in some degree at least the same power to induce new growth in rats whose growth has become suspended after long feeding with diets of purified food substances.

62 (879)

The experimental production of hyaline casts by injections of magnesium salts.

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In view of the urinary findings after magnesium-ether anesthesia in human cases, just reported to you by Dr. Peck, Dr. Meltzer suggested that we try to produce hyaline casts in animals by injections of magnesium salts.

We have used rabbits, monkeys, and dogs, but the results to be reported tonight relate only to experiments on dogs. Epsom salt in sublethal doses, with and without ether by insufflation, was given to dogs intramuscularly and intravenously. In all cases many hyaline casts appeared. They were most abundant from 3 to 6 hours after the injection and disappeared in 24 or at most 48 hours. No epithelial or granular casts were found and no measurable albuminuria occurred. Ether alone did not produce casts and ether and magnesium produced no more than magnesium alone. In one experiment, magnesium chloride gave the same results as the sulphate.

Our essential point is that hyaline casts in large numbers can be produced in dogs at will by injections of magnesium salts. Epithelial and granular casts and albuminuria are not present and the appearance of the hyaline casts is only temporary.