

THE MECHANISM OF OVARIAN TOXICITY CAUSED BY CHEMOTHERAPIES BY AGE.

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Abstract Body

Premature ovarian failure and infertility caused cancer therapies are different by age. The mechanism underlying chemotherapy-mediated depletion of the ovarian reserve remains unclear. Here, we aim to identify the different mechanism by age. 3wk and 9wk mice were injected with vehicle or cyclophosphamide (100mg/kg). Both groups were sacrificed in 24 h and 72h after injection. 3wk mice were sacrificed in 8wk and 11wk after injection. 9wk mice were sacrificed in 2wk and 4wk after injection. Primordial follicle counting was assessed by IF assay using Msy2, a cytoplasmic antigen of germ cells. γ H2AX, cleaved PARP and FOXO3a activation were evaluated with IF assay using a phospho-specific antibody and Msy2. Percentage of pregnancy rate for both groups were assessed throughout mating rounds.