

IRREVERSIBLE CELL DEATH

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	Necrosis	Apoptosis
Microscopic changes (A) Ultrastructural	① Death of <u>useful</u> cells ② Group of cells ③ Cell swelling ④ Inflammation ⑤ Disruption of cell membrane, lysosomes ⑥ Cell contents leak out ⑦ Amorphous densities in mitochondria ⑧ Myelin figures ⑨ Fluffy materials (Mallory bodies)	① Death of <u>useless</u> cells ② Single cells ③ Cell shrunken ④ No inflammation ⑤ Cell membrane intact ⑥ Cell contents intact ⑦ Phagocytosis by macrophages
Microscopy		
A. Cytoplasm changes	① Eosinophilia ② Vacuolated	① Eosinophilic (dog use less Dea)
B. Nuclear changes	① Karyorrhexis ② Karyolysis ③ Nuclear pyknosis	① Fragmented nucleus ② Chromatin (condensed)

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