Cellular level damage response



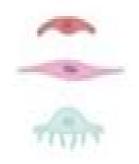
Early tissue damage reaction



Late tissue damage reaction



Cardiovascular diseases





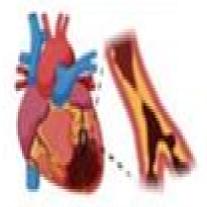
- Oxidative stress
- Epigenetic changes
- Increased expression of inflammatory cytokines and adherssion molecules
- Mitochondrial dysfunction
- Senescence
- Cell death



- Inflammatory cells adhere and transmigrate into subendothelial space
- Epithelium dysfunctional and permeability/leaky
- Bystander damage in vivo
- Cell compactment disorder
- Metabolic homeostasis disorder
- Microthrombosis



- Inflammation
- Vascular aging
- Capillary network loss
- Lipid-loaded foam cell formation
- Atherosclerotic plaque
- Stenosis/vessel narrow
- Fibrosis



Life Span Study of aomic bomb survivors (Shimizu, et al, 2010)

- (1) ~60% radiation-related excess non-cancer deaths are from circulatory diseases;
- (2) ERR/Gy for RICVD overall is 0.14 (95% CI 6 to 23%), for ischaemic heart diseases is 0.02 (95% CI -0.10 to 0.15);
- (3) <u>ICRP</u>: The best estimate of the dose-effect threshold is 0 Gy (i.e. no threshold, 95% CI <0 to 0.5 Gy) for heartt diseases, whereas it is 0.5 Gy for cerebrovascular.

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