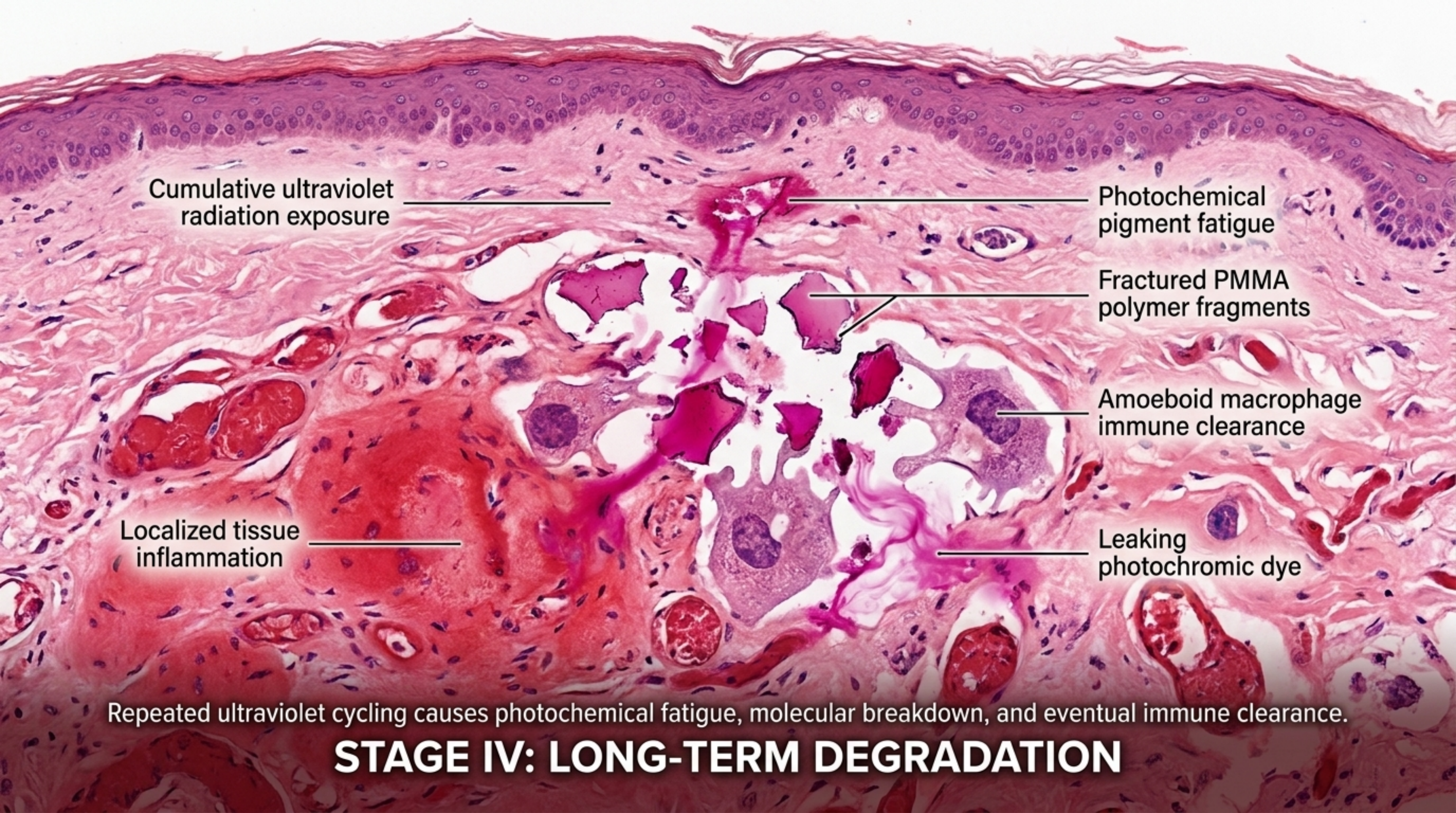




Cumulative ultraviolet
radiation exposure

Photochemical
pigment fatigue

Fractured PMMA
polymer fragments

Amoeboid macrophage
immune clearance

Leaking
photochromic dye

Localized tissue
inflammation

Repeated ultraviolet cycling causes photochemical fatigue, molecular breakdown, and eventual immune clearance.

STAGE IV: LONG-TERM DEGRADATION