

Potensi masa depan ekstrak *Annona muricata L.* dan senyawa Bioaktifnya sebagai peningkat radiosensitivitas: ajuan mekanisme berdasarkan telaah sistematis = Future potential of *Annona muricata L.* extract and its bioactive compounds as radiation sensitizing agent: proposed mechanisms based on systematic review

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Abstrak

Terlepas dari kemajuan teknologi di bidang kanker terutama radioterapi yang sudah dicapai, banyak usaha yang dilakukan untuk meningkatkan radiosensitivitas sel kanker untuk meningkatkan rasio terapeutik dan mengatasi radioresistensi sel kanker. Pada telaah ini, kami mengevaluasi mekanisme antikanker ekstrak *Annona muricata L.* dan senyawa bioaktifnya seperti acetogenin annonaceous, annomuricin, annonacin, curcumin,

dll.; dan lebih jauh mengorelasikan mekanisme zat tersebut dengan potensi untuk meningkatkan atau mengurangi radiosensitivitas sel kanker berdasarkan pencarian literatur. Berbagai jalur telah dilaporkan dan berdasarkan bukti literatur bahwa kebanyakan dari mereka dapat meningkatkan radiosensitivitas, kami melihat *Annona muricata L.* memiliki potensi masa depan yang menjanjikan sebagai agen peningkat radiosensitivitas. Studi lanjutan diperlukan untuk mendapatkan bukti yang sahih.

.....Despite achieved technological advances in cancer treatment especially in radiotherapy, many efforts are being made in improving cancer cells radiosensitivity to increase therapeutic ratio and overcome cancer cells radioresistance. In the present review, we evaluate the anticancer mechanism of *Annona muricata L.* extract (mainly leaves extract) and its bioactive compound such as annonaceous acetogenins, annomuricin, annonacin, curcumin, etc.; and further correlate them with the potential of the mechanism to increase or to reduce cancer cells radiosensitivity based on literature investigation. Various pathways were reported and based on the literature evidence that most of them could lead to increased radiosensitivity, we see that *Annona muricata L.* has a future promising potential as a radiosensitizer agent. Further studies are needed to establish more valid evidence.