

## DAFTAR PUSTAKA

- 1 Boardman CH, Matthews KJ. Cervical Cancer. Medscape. 2018.(Cited 19 Sep 2018).Available from <https://emedicine.medscape.com/article/253513-overview>
- 2 Bray F, Ferlay J, Soerjomataram I, L. Siegel R, A. Torre L, Jemal A. Global Cancer Statistics 2018: GLOBOCAN Estimates of Incidence and Mortality Worldwide for 36 Cancers in 185 Countries. *A Cancer J Clin* 2018; 68: 394–424.
- 3 World Health Organization. Cervical cancer. 2018. (Cited 19 Dec2018).Available from <https://www.who.int/cancer/prevention/diagnosis-screening/cervical-cancer/en/>
- 4 Kementerian Kesehatan RI. Buletin Kanker. Pusat Data dan Informasi Kementerian Kesehatan RI 2015. Jakarta: Kemenkes RI;2015.
- 5 Ministry of Health Indonesia. Pusat data dan informasi kementerian kesehatan Republik Indonesia, InfoDatin “STOP KANKER”. *Minist Heal Indones* 2015. doi:2442-7659.
- 6 Nadkarni N, Perez CA, Tew WP, Makhija S. Cervical Cancer. In: Pazdur R, Wagman LD, Camphausen KA, Hoskins WJ (eds). *Cancer Management: a multidisciplinary Approach*. CMPMedicawww.cancernetwork.com.
- 7 Pearce A, Haas M, Viney R, Pearson S-A, Haywood P, Brown C et al. Incidence and severity of self-reported chemotherapy side effects in routine care: A prospective cohort study. *PLoS One* 2017; 12: e0184360.
- 8 De Boer-Dennert M, De Wit R, Schmitz PIM, Djontono J, Beurden V V., Stoter G et al. Patient perceptions of the side-effects of chemotherapy: The influence of 5HT3 antagonists. *Br J Cancer* 1997; 76: 1055–1061.
- 9 Khiati S, Dalla Rosa I, Sourbier C, Ma X, Rao VA, Neckers LM et al. Mitochondrial Topoisomerase I (Top1mt) Is a Novel Limiting Factor of Doxorubicin Cardiotoxicity. *Clin Cancer Res* 2014. doi:10.1158/1078-0432.CCR-13-3373.
- 10 Types of Chemotherapy Agents and Regimens. *Chemoth.* (cited 6 Jan 2019). Available from <https://chemoth.com/types/anthracyclines>.
- 11 Pramono E. *The commercial use of traditional knowledge and medicinal plants in Indonesia*. Rajendrapur, Bangladesh, 2002.
- 12 Pringgoutomo S. *Riwayat perkembangan pengobatan dengan tanaman obat*

- di dunia timur dan barat. In: Buku ajar Kursus Herbal Dasar untuk Dokter. Balai Penerbit FKUI: Jakarta, 2007, pp 1–5.
- 13 Basavegowda N, Sobczak-Kupiec A, Malina D, Yathirajan HS, Keerthi VR, Chandrashekar N et al. Plant mediated synthesis of gold nanoparticles using fruit extracts of *Ananas comosus* (L.) (pineapple) and evaluation of biological activities. *Adv Mater Lett* 2013; 4: 332–337.
  - 14 Ahmad N, Sharma S. Green Synthesis of Silver Nanoparticles Using Extracts of *Ananas comosus*. *Green Sustain Chem* 2012; 2: 141–147.
  - 15 Báez R, T. P. Lopes M, Carlos S, Hernández M de la C. In Vivo Antitumoral Activity of Stem Pineapple (*Ananas comosus*) Bromelain. 2007 doi:10.1055/s-2007-990221.
  - 16 Naritasari F, Susanto H, Supriatno. Pengaruh Konsentrasi Ekstrak Etanol Bonggol Nanas (*Ananas comosus* (L.) Merr) Terhadap Apoptosis Karsinoma Sel Skuamosa Lidah Manusia. *Maj Obat Tradis* 2010; 15: 16–25.
  - 17 Dhandayuthapani S, Perez HD, Paroulek A, Chinnakkannu P, Kandalam U, Jaffe M et al. Bromelain-Induced Apoptosis in GI-101A Breast Cancer Cells. *J Med Food* 2012; 15: 344–349.
  - 18 The Legacy of Henrietta Lacks. *Johns Hopkins Med.* (Cited 19 Sep 2019). Available from <https://www.hopkinsmedicine.org/henrietalacks/importance-of-hela-cells.html>.
  - 19 Anonymous. What is cancer? *Cancer Treat. Centers Am.* (cited 21 Dec 2018). Available from <https://www.cancercenter.com/what-is-cancer>.
  - 20 L. Fields A, G. Jones J, Thomas GM, Runowicz CD. Gynecologic Cancer. In: *The American Cancer Society's Clinical Oncology*. American Cancer Society, 2001.
  - 21 Bhui K, Tyagi S, Prakash B, Shukla Y. Pineapple bromelain induces autophagy, facilitating apoptotic response in mammary carcinoma cells. *BioFactors* 2010; 36: 474–482.
  - 22 Rathnavelu V, Alitheen N, Sohila S, Kanagesan S, Ramesh R. Potential role of bromelain in clinical and therapeutic applications (Review). *Biomed Reports* 2016; 5: 283–288.
  - 23 Bhui K, Tyagi S, Srivastava AK, Singh M, Roy P, Singh R et al. Bromelain inhibits nuclear factor kappa-B translocation, driving human epidermoid carcinoma A431 and melanoma A375 cells through G2/M arrest to apoptosis. *Mol Carcinog* 2012; 51: 231–243.

- 24 Minotti G, Menna P, Salvatorelli E, Cairo G, Gianni L. Anthracyclines: Molecular Advances and Pharmacologic Developments in Antitumor Activity and Cardiotoxicity. *Pharmacol Rev* 2004; 56: 185 LP-229.
- 25 Gewirtz D. A critical evaluation of the mechanisms of action proposed for the antitumor effects of the anthracycline antibiotics adriamycin and daunorubicin. *Biochem Pharmacol* 1999; 57: 727–741.
- 26 Wibowo DS, Paryana W. *Anatomi Tubuh Manusia*. 1st ed. Elsevier: Indonesia, 2009.
- 27 Drake RL, Vogl AW, Mitchell AWM. *Gray Dasar-Dasar Anatomi*. 1st ed. Elsevier: Singapur, 2014.
- 28 Mescher AL. *Junqueira's Basic Histology*. 14th ed. Mcgraw-Hill Education, 2016.
- 29 Hejmadi M. *Introduction to Cancer Biology*, 2nd edition. 2010.
- 30 World Health Organization. Estimated number of cancer cases in Indonesia. 2018; 256: 2018–2019.
- 31 SEER Program Stat Fact Sheets: Cancer of the Cervix Uteri. 2015. (cited 21 Jun2019). Available from <https://seer.cancer.gov/statfacts/html/cervix.html>.
- 32 Bosch FX, Lorincz A, Munoz N, Meijer CJ, M, Shah KV, The causal relation between human papillomavirus and cervical cancer. *J Clin Pathol* 2002; 55: 244–265.
- 33 Susanne KKJER, Bock JE, Poll PA, Engholm G, Sherman ME, Walboomers JMM et al. Human papillomavirus-the most significant risk determinant. 1996; 606: 601–606.
- 34 Muñoz N, Bosch FX, de Sanjosé S, Herrero R, Castellsagué X, Shah K V. et al. Epidemiologic classification of human papillomavirus types associated with cervical cancer. *N Engl J Med* 2003; 348: 518–527.
- 35 Sichero L, Villa LL. HPV and cervical cancer. *Breast Gynecol Cancers An Integr Approach Screen Early Diagnosis Dev Ctries* 2013; 5513: 83–98.
- 36 Iarc. International Agency for Research on Cancer Iarc Monographs on the Evaluation of Carcinogenic Risks To Humans. 2012.
- 37 Low-Risk and High-Risk HPV Types. 2018.(Cited 3 Jun 2019). Available from [https://www.labce.com/spg326557\\_low\\_risk\\_and\\_high\\_risk\\_hpv\\_types.aspx](https://www.labce.com/spg326557_low_risk_and_high_risk_hpv_types.aspx).

- 38 Dempsey AF, Mendez D. Examining Future Adolescent Human Papillomavirus Vaccine Uptake, With and Without a School Mandate. *J Adolesc Heal* 2010; 47: 242–248.e6.
- 39 Vaccarella S, Herrero R, Dai M, Snijders PJF, Meijer CJLM, Thomas JO et al. Reproductive factors, oral contraceptive use, and human papillomavirus infection: Pooled analysis of the IARC HPV prevalence surveys. *Cancer Epidemiol Biomarkers Prev* 2006; 15: 2148–2153.
- 40 Schiffman M, Wentzensen N. Human papillomavirus (HPV) infection and the multi-stage carcinogenesis of cervical cancer. 2014; 1854: 1–14.
- 41 UICC International Union Against Cancer). TNM Classification of Malignant tumours. 6th ed. 2002. (Cited 24 Jun2019). Available from <https://screening.iarc.fr/viaviliappendix1.php>
- 42 American Cancer Society. Cervical Cancer Stages. 2017. (cited 6 Jun2019). Available from <https://www.cancer.org/cancer/cervical-cancer/detection-diagnosis-staging/staged.html>.
- 43 World Health Organization. Human papillomavirus (HPV) and cervical cancer. 2019. (Cited 6 Jun 2019). Available from [https://www.who.int/news-room/fact-sheets/detail/human-papillomavirus-\(hpv\)-and-cervical-cancer](https://www.who.int/news-room/fact-sheets/detail/human-papillomavirus-(hpv)-and-cervical-cancer).
- 44 Ronald E. Hempling. Preinvasive Lesion of the Cervix Diagnosis and Management. In: Piver MS (ed). *Handbook of Gynecologic Oncology*. Library of Congress Cataloging-in-Publication Data: New York, 1996, pp 83–85.
- 45 Hempling RE. Cervical Cancer. In: Piver MS (ed). *Handbook of Gynecologic Oncology*. Little, Brown and Company: United States, 1996, p 103.
- 46 National Cancer Institute. Cervical Cancer Treatment (PDQ®)–Patient Version. 2009.(Cited 9 August 2019). Available from <https://www.cancer.gov/types/cervical/patient/cervical-treatment-pdq>.
- 47 Liwang F, Purbadi S. Kanker Serviks. In: Tanto C (ed). *Kapita Selektta Kedokteran*. Media Aesculapius: Jakarta, 2014, pp 497–9.
- 48 National Cancer Institute. Cancer Stat Facts: Cervical Cancer. 2017. (Cited 11 Sep2019). Available from <https://seer.cancer.gov/statistics/types/survival.html>
- 49 American Cancer Society. Survival Rates for Cervical Cancer. <https://www.cancer.org/cancer/cervical-cancer/detection-diagnosis-staging/survival.html> (accessed 9 Sep2019).

- 50 Raven PH, Johnson GB, Losos JB, Singer SR. Biology. 7th ed. Mcgraw-Hill Education: New York, 2005.
- 51 Mercer WE. Checking on the cell cycle. J Cell Biochem Suppl 1998; 30–31: 50–54.
- 52 Bailey Regina. The Stages of Mitosis and Cell Division. thoughtco. (Cited 16 Oct 2019). Available from <https://www.thoughtco.com/stages-of-mitosis-373534>.
- 53 Leicester U of. The Cell Cycle, Mitosis and Meiosis. (Cited 16 Oct 2019). Available from <https://www2.le.ac.uk/projects/vgec/highereducation/topics/cellcycle-mitosis-meiosis>.
- 54 Thermo Fisher Scientific. Cell Culture Basics Handbook. Gibco, 2015.
- 55 I. FR. Culture of Animal Cells. J Chem Inf Model 2002; 53.
- 56 American Type Culture Collection. MTT Cell Proliferation Assay. Encycl Cancer 2011; 6597: 2384–2384.
- 57 Riss TL, Moravec RA, Niles AL, Duellman S, Benink HA, Worzella TJ et al. Cell Viability Assays. Assay Guid Man 2004; : 1–25.
- 58 Aykul S, Martinez-Hackert E. Determination of Half-Maximal Inhibitory Concentration Using Biosensor-based Protein Interaction Analysis. Anal Biochem 2016; 508: 97–103.
- 59 Kementerian Kesehatan RI. Inventaris Tumbuhan Obat Indonesia. Edisi Revi. Lembaga Penerbit Badan Penelitian dan Pengembangan Kesehatan: Jakarta, 2016.
- 60 Taussig SJ, Batkin S. Bromelain, the enzyme complex of pineapple (*Ananas comosus*) and its clinical application. An update. J Ethnopharmacol 1988; 22: 191–203.
- 61 Hassan A, Othman Z, Siriphanich J. 10 - Pineapple (*Ananas comosus* L. Merr.). In: Yahia EMBT-PB and T of T and SF (ed). Woodhead Publishing Series in Food Science, Technology and Nutrition. Woodhead Publishing, 2011, p 194–218e.
- 62 Saxena P, Panjwani D. Cardioprotective potential of hydro-alcoholic fruit extract of *Ananas comosus* against isoproterenol induced myocardial infraction in Wistar Albino rats. J Acute Dis 2014; 3: 228–234.
- 63 Anonymous. Doxorubicin. (Cited 19 Sept 2019). Available from <http://chemocare.com/chemotherapy/drug-info/doxorubicin.aspx>.



- 64 Han X, Pan J, Ren D, Cheng Y, Fan P, Lou H. Naringenin-7-O-glucoside protects against doxorubicin-induced toxicity in H9c2 cardiomyocytes by induction of endogenous antioxidant enzymes. *Food Chem Toxicol* 2008; 46: 3140–3146.
- 65 Bruton L, Lazo J, Parker KL. Goodman & Gilman's The Pharmacological Basis of Therapeutics. 11th ed. McGraw-Hill Education: New York, United States, 2009.
- 66 Hermawan A, Sarmoko, Ikawati M, Meiyanto E. Prosedur Tetap Pembuatan Media. CCRC (Cancer Chemoprevention Res Center) Fak Farm UGM 2010; : 1–5.
- 67 CCRC. Prosedur Tetap Menumbuhkan Sel Dari Tangki Nitrogen Cair (Cell Thawing). Cancer Chemoprevention Res Cent Farm UGM 2010; : 1–3.
- 68 Putri H. Prosedur Tetap Uji Sitotoksik Metode MTT. Cancer Chemoprevention Res Cent Fak Farm UGM 2013; : 1–8.
- 69 Tysnes BB, Maurer HR, Porwol T, Probst B, Bjerkvig R, Hoover F. Bromelain reversibly inhibits invasive properties of glioma cells. *Neoplasia* 2001; 3: 469–479.
- 70 Amini A, Ehteda A, Masoumi S, Moghaddam, Akhter J, Pillai K et al. Cytotoxic effects of bromelain in human gastrointestinal carcinoma cell lines (MKN45, KATO-III, HT29-5F12, and HT29-5M21). *Onco Targets Ther* 2013; 6: 403–409.
- 71 Speidel D. Transcription-independent p53 apoptosis: an alternative route to death. *Trends Cell Biol* 2010; 20: 14–24.
- 72 Leu JI-J, Dumont P, Hafey M, Murphy ME, George DL. Mitochondrial p53 activates Bak and causes disruption of a Bak–Mcl1 complex. *Nat Cell Biol* 2004; 6: 443–450.
- 73 Sayan BS, Sayan AE, Knight RA, Melino G, Cohen GM. P53 Is Cleaved By Caspases Generating Fragments Localizing To Mitochondria. *J Biol Chem* 2006; 281: 13566–13573.
- 74 Bhui K, Prasad S, George J, Shukla Y. Bromelain inhibits COX-2 expression by blocking the activation of MAPK regulated NF-kappa B against skin tumor-initiation triggering mitochondrial death pathway. *Cancer Lett* 2009; 282: 167–176.
- 75 Marraskuranto E, Fajarningsih ND, Januar HI, Wikanta T. Aktivitas Antitumor (HeLa dan T47d) dan Antioksidan Ekstrak Makroalga Hijau Ulva fasciata. *J Pascapanen dan Biotekmol Kelaut dan Perikan* 2008; 3: 107.