

## DAFTAR PUSTAKA

- Ahmed, N. Y., Ismail, A. T., & Kareem, T. S. (2012a). A clinicopathologic study of Ki-67 proliferation index in colorectal carcinoma. *Saudi medical journal*, *33*(8), 841–845.
- Arnold, M., Sierra, M. S., Laversanne, M., Soerjomataram, I., Jemal, A., & Bray, F. (2016). Global patterns and trends in colorectal cancer incidence and mortality. *Gut*, gutjnl–2015–310912. doi:10.1136/gutjnl-2015-310912.
- Beckmann, K. R., Bennett, A., Young, G. P., Cole, S. R., Joshi, R., Adams, J., ... Roder, D. (2015). Sociodemographic disparities in survival from colorectal cancer in South Australia: a population-wide data linkage study. *BMC Health Services Research*, *16*(1). doi:10.1186/s12913-016-1263-3.
- Boyle P, Ferlay J. Cancer Incidence and Mortality in Europe 2004. *Annals of Oncology*. 2005;16:481 - 8.
- Bray F, Ferlay J, Soerjomataram I, et al. Global cancer statistics 2018: GLOBOCAN estimates of incidence and mortality worldwide for 36 cancers in 185 countries. *CA Cancer J Clin* 2018; 68: 394-424.
- Brooke, H. L., Talbäck, M., Martling, A., Feychting, M., & Ljung, R. (2016). Socioeconomic position and incidence of colorectal cancer in the Swedish population. *Cancer Epidemiology*, *40*, 188–195. doi:10.1016/j.canep.2016.01.004.
- Bullard KM, Rothenberger DA. Colon, Rektum, and Anus. In: Brunnicardi FC, editor. *Schwartz's Principles of Surgery*. New York: The McGraw-Hill Companies; 2015. p. 1175 - 230.
- Cai, X., Qi, W. X., Wang, L., & Zhang, Z. (2016). Correlation of multiple proteins with clinicopathological features and its prognostic significance in colorectal cancer with signet-ring cell

component. *European review for medical and pharmacological sciences*, 20(16), 3358–3367.

Clarke, N., Gallagher, P., Kearney, P. M., McNamara, D., & Sharp, L. (2016). Impact of gender on decisions to participate in faecal immunochemical test-based colorectal cancer screening: a qualitative study: Impact of gender on decision to participate in FIT screening. *Psycho-Oncology*, n/a–n/a. doi:10.1002/pon.4085.

Clèries, R., Buxó, M., Martínez, J. M., Espinàs, J. A., Dyba, T., & Borràs, J. M. (2016). Contribution of changes in demography and in the risk factors to the predicted pattern of cancer mortality among Spanish women by 2022. *Cancer Epidemiology*, 40, 113–118. doi:10.1016/j.canep.2015.12.002.

Cancer Definition. NCI Dictionary of Cancer Terms. Diunduh dari <https://www.cancer.gov/publications/dictionaries/cancer-terms/def/cancer>. Accessed 02 August 2019.

Casciato DA. Manual of Clinical Oncology. 5th ed. USA: Lippincott Williams & Wilkins; 2004.

Chao A, Thun MJ, Connell CJ, McCullough ML, Jacobs EJ, Flanders WD, et al. Meat consumption and risk of colorectal cancer. *JAMA*. 2005; 293: 172-82.

Chu KM. Epidemiology and risk factors of colorectal cancer. In: Susan G, Ahuja L, editors. Early Diagnosis and Treatment of Cancer Colorectal Cancer. Philadelphia: Saunders Elseviers; 2011. p. 1-11.

Clarke CN, Kopetz ES. BRAF mutant colorectal cancer as a distinct subset of colorectal cancer: clinical characteristics, clinical behavior, and response to targeted therapies. *J Gastrointest Oncol* 2015;6:660–7.

- Cooper GS, Yuan Z, Landefeld CS, Johanson JF, Rimm AA. A national-population based study of incidence of colorectal cancer and age. Implication of screening in older Americans. *Cancer*. 1995;75(3).
- Cordain L, Latin RW, Behnke JJ. The effects of an aerobic running program on bowel transit time. *J Sports Med Phys Fitness*. 2006;26:101-4.
- Dbouk HA, Tawil A, Nasr F, Kandakarjian L, Abou-merhi R. Significance of CEA and VEGF as Diagnostic Markers of Colorectal Cancer in Lebanese Patients. *Open Clin Cancer J*. 2007:1-5.
- Deng G, Bell I, Crawley S et al. BRAF mutation is frequently present in sporadic colorectal cancer with methylated hMLH1, but not in hereditary nonpolyposis colorectal cancer. *Clin Cancer Res* 2004; 10: 191–195.
- Effendi, R. and Rey, I., 2015. Molecular diagnostics in colorectal cancer. *The Indonesian Journal of Gastroenterology, Hepatology, and Digestive Endoscopy*, 16(1), pp.26-33.
- Ferlay J. *et al.* (2004). *Cancer incidence, mortality and prevalence worldwide*. 2.0. v, editor. Lyon, France:: IARC Press; GLOBOCAN.
- Filiz AI, Sucullu I, Kurt Y, Karakas DO. Persistent high postoperative carcinoembryonic antigen in colorectal cancer patients- is it important. *Clinics*. 2009;64(4):287-94.
- Gangopadhyay A. *et al.* (1998). Adhesion of colorectal carcinoma cells to the endothelium is mediated by cytokines from CEA stimulated Kupffer cells.
- Glynne-Jones, R. (2015). Early rectal cancer: opening the door to change. *The Lancet Oncology*, 16(15), 1449–1451.

- Guzinska, K., Pryczynicz, A., Kemonia, A., & Czyzewska, J. (2009). Correlation between proliferation markers: PCNA, Ki-67, MCM-2 and antiapoptotic protein Bcl-2 in colorectal cancer. *Anticancer research*, 29(8), 3049–3052.
- Hammarstrom S. (1999). The carcinoembryonic antigen CEA family: structures, suggested functions and expression in normal and malignant tissues ;Vol 9,(seminars in Cancer Biology):67-81.
- Hilska, M., Collan, Y. U., O Laine, J. V., Kössi, J., Hirsimäki, P., Laato, M., & Roberts, P. J. (2005). The Significance of Tumor Markers for Proliferation and Apoptosis in Predicting Survival in Colorectal Cancer: *Diseases of the Colon & Rectum*, 48(12), 2197–2208. doi:10.1007/s10350-005-0202-x.
- Holdenreider L, Pagliaro L, Morgenstern D, Dayyani F. Clinically Meaningful Use of Blood Tumor Markers in Oncology. Hindawi Publishing Corporation BioMed Research International. 2016. pp 1-10.
- Itzkowitz SH, Yio X. Colorectal cancer in inflammatory bowel disease: the role of inflammation: the role of inflammation. *Am J Physiol Gastrointest Liver Physiol*. 2004;287:G7 - G17.
- J.L. Bos, E.R. Fearon, S.R. Hamilton, M. Verlaan-de Vries, J.H. van Boom, A.J. van der Eb, B. Vogelstein, Prevalence of ras gene mutations in human colorectal cancers, *Nature* 327 (1987) 293 – 297.
- Kahi, C. J., Boland, C. R., Dominitz, J. A., Giardiello, F. M., Johnson, D. A., Kaltenbach, T., ... Rex, D. K. (2016). Colonoscopy surveillance after colorectal cancer resection: recommendations of the US multi-society task force on colorectal cancer. *Gastrointestinal Endoscopy*, 83(3), 489–498.e10. doi:10.1016/j.gie.2016.01.020.

Li Destri G, Rubino AS, Latino R, Giannone F, Lanteri R, Scilletta B, Di Cataldo A. Preoperative carcinoembryonic antigen and prognosis of colorectal cancer. An independent prognostic factor still reliable. *Int Surg.* 2015; 100:617–25

Li Ka Shing Faculty of Medicine, The University of Hong Kong, Pokfulam, Hong Kong, Leung, W. C., Foo, D. C., Chan, T., Chiang, M., Lam, A. H., ... Cheung, C. C. (2016). Alternatives to colonoscopy for population-wide colorectal cancer screening. *Hong Kong Medical Journal.* doi:10.12809/hkmj154685.

Lukman, K., Yuniasari, L., & Hernowo, B. S. (2012). Hubungan faktor risiko, status instabilitas mikrosatelit, dan ekspresi p53 dengan karsinogenesis adenokarsinoma kolorektal pada orang indonesia. *Majalah Kedokteran Bandung*, 44(4), 245–252.

Lusikooy,R.E. (2013) *Faktor Resiko Terjadinya Kanker Kolorektal di Indonesia*, Tesis Doktor, Universitas Hasanuddin, Makassar.

Michael JD. Carcinoembryonic Antigen as a Marker for Colorectal Cancer: Is it Clinically Useful? *Clinical Chemistry.* 2001. 47: pp 624-630.

NCCN(2018) Clinical Practice Guidelines in Oncology, version 2. 2019.

Odeny TA, Farha N, Hildebrandand H, Allen J, Vazquez W, Martinez M, Paluri RK, Kasi A. Association between Primary Perioperative CEA Ratio, Tumor Site, and Overall Survival in Patients with Colorectal Cancer. *J Clin Med.* 2020 Nov 27;9(12):3848. doi: 10.3390/jcm9123848. PMID: 33260810; PMCID: PMC7760538.

Park, In & Kim, Hee & Yu, Chang & Yoo, Jang & Kim, Jin. (2005). Cutoff Values of Preoperative s-CEA Levels for Predicting Survivals after Curative Resection of Colorectal Cancer.

- Journal of Korean medical science. 20. 624-7. 10.3346/jkms.2005.20.4.624.
- Pedoman Nasional Pelayanan Kedokteran Kanker Kolorektal (2017) Kementerian Kesehatan Republik Indonesia, pp.7-10.
- Permana, F. R., Budiono, B. P., and Farida, H., 2016. Hubungan Kadar Carcinoembryonic Antigen (CEA) dan Albumin Serum dengan Lokasi Kanker Kolorektal Studi Kasus di RSUP dr. Kariadi. *diponegoro medical journal (jurnal kedokteran diponegoro)*, [Online] Volume 5(4), pp. 808-816.
- Polat E. *et al.* (2014). Diagnostic value of preoperative serum carcinoembryonic antigen and carbohydrate antigen 19-9in colorectal cancer. *Current Oncology*; Vol. 21: 1-7.
- Pollock PM, Harper UL, Hansen KS, et al. High frequency of BRAF mutations in nevi. *Nat Genet.* 2003;33(1):19–20.
- Puig-LaCalle,J.,J.G.Guillem. *Genetic Screening and Chemoprevention*, In:Audisio,R.A, J.G. Gerathy,W.E. Longo, (eds), *Modern Management of Cancer of the rectum*,Springer,London. 2010.
- Rama D. Kanker usus besar. Mengenal seluk-beluk Kanker. Yogyakarta: KataHati; 2007. p. 133 - 47.
- Rama, A., Hernandez, R., Perazzoli, G., Burgos, M., Melguizo, C., Vélez, C., & Prados, J. (2015). Specific Colon Cancer Cell Cytotoxicity Induced by Bacteriophage E Gene Expression under Transcriptional Control of Carcinoembryonic Antigen Promoter. *International Journal of Molecular Sciences*, 16(6), 12601–12615. doi:10.3390/ijms160612601.
- Ramphal W, Boeding JRE, van Iwaarden M, Schreinemakers JMJ, Rutten HJT, Crolla RMPH, Gobardhan PD. Serum carcinoembryonic antigen to predict recurrence in the follow-up of

patients with colorectal cancer. *Int J Biol Markers*. 2019 Mar;34(1):60-68. doi: 10.1177/1724600818820679. Epub 2019 Mar 11. PMID: 30852955.

Redwood, D., Provost, E., Lopez, E. D., Skewes, M., Johnson, R., Christensen, C., ... Haverkamp, D. (2016). A Process Evaluation of the Alaska Native Colorectal Cancer Family Outreach Program. *Health Education & Behavior*, 43(1), 35–42.

Rizaldi A. Pola Kadar CEA ( Carcinoembryonic Antigen ) Praoperatif pada Penderita Karsinoma Kolorektal ( KKR ) di Rumah Sakit Tempat Pendidikan FK USU MEDAN Tahun 2006-2008[Thesis]. Medan: FKUSU; 2008.

Saito G, Sadahiro S, Okada K, Tanaka A, Suzuki T, Kamijo A. Relation between Carcinoembryonic Antigen Levels in Colon Cancer Tissue and Serum Carcinoembryonic Antigen Levels at Initial Surgery and Recurrence. *Oncology*. 2016;91(2):85-9. doi: 10.1159/000447062. Epub 2016 Jun 4. PMID: 27260164.

Sakuma, kazuhiko, & fujimori, takuhiro. (1999). COX 2 immunoreactivity and relationship to p53 and Ki67 in colorectal. *J gastroenterol*.

Scopa, C. D., Tsamandas, A. C., Zolota, V., Kalofonos, H. P., Batistatou, A., & Vagianos, C. (2003). Potential role of bcl-2 and ki-67 expression and apoptosis in colorectal carcinoma: a clinicopathologic study. *Digestive diseases and sciences*, 48(10), 1990–1997.

Siregar GA, Sibarani H. Comparison of Carcinoembryonic Antigen Levels Among Degree of Differentiation and Colorectal Cancer's Location in Medan. *Open Access Maced J Med Sci*. <https://doi.org/10.3889/oamjms.2019.442>

- Soeripto, Indrawati, Indrayanti. Gastro-intestinal Cancer in Indonesia. *Asian Pacific J Cancer Prev.* 2003;4:289-96.
- Sottoriva A, Kang H, Ma Z, et al. A big bang model of human colorectal tumor growth. *Nat Genet.* 2015;47(3):209–216.
- Su B, Shi H, Wan J. Role of serum carcinoembryonic antigen in the detection of colorectal cancer before and after surgical resection. *World J Gastroenterol.* 2012;18(17):2121-6.
- Su LK. 2004. Molecular Biology of Colorectal Cancer. In Abbruzzese JL., Eds.; *Gastrointestinal Oncology*; Oxford University Press; 635-644
- Sugarbaker P.H. (1976). Carcinoembryonic antigen (CEA) assays in obstructive colorectal cancer.
- Thompson A. J. *et al.* (1991). Carcinoembryonic Antigen Gene Family: Molecular Biology and Clinical Perspectives. *Clinical Laboratory Analysis*; 5:366-5344.
- Tica Sedlar, I., Petricevic, J., Saraga-Babic, M., Pintaric, I., & Vukojevic, K. (2016). Apoptotic pathways and stemness in the colorectal epithelium and lamina propria mucosae during the human embryogenesis and carcinogenesis. *Acta Histochemica*, 118(7), 693–703. doi:10.1016/j.acthis.2016.08.004.
- Topdagil O, Timuroglu L. Evaluation of the Relationship between Carcinoembryonic Antigen and TNM Stage in Colorectal Cancer. *Eurasian J Med.* 2018. 50: 96-8.
- Valera, V., Yokoyama, N., Walter, B., Okamoto, H., Suda, T., & Hatakeyama, K. (2005). Clinical significance of Ki-67 proliferation index in disease progression and prognosis of patients with resected colorectal carcinoma. *British Journal of Surgery*, 92(8), 1002–1007. doi:10.1002/bjs.4858.



- Wancata, L. M., Banerjee, M., Muenz, D. G., Haymart, M. R., & Wong, S. L. (2016). Conditional survival in advanced colorectal cancer and surgery. *Journal of Surgical Research*, 201(1), 196–201. doi:10.1016/j.jss.2015.10.021.
- Wei C. *et al.* (2013). Association between carcinoembryonic antigen, carbohydrate antigen 19-9 and body mass index in colorectal cancer patients. *Molecular And Clinical Oncology*; 1:879-86.
- Ying L. *et al.* (2010). Carcinoembryonic antigen interacts with TGF- $\beta$  receptor and inhibits TGF- $\beta$  signaling in colorectal cancers. *Cancer Res.*;70(20):8159–68.
- Zlobec, I., & Lugli, A. (2008). Prognostic and predictive factors in colorectal cancer. *Postgraduate Medical Journal*, 84(994), 403–411. doi:10.1136/jcp.2007.054858.