

DAFTAR PUSTAKA

1. Darnton-Hill I dan Mkpapu UC. Micronutrients in pregnancy in low- and middle-income countries. *Nutrients*. 2015; 7: 1744-1768
2. Gernand AD, Schulze KJ, Stewart CP, West Jr KP, Christian Parul. Micronutrient deficiencies in pregnancy worldwide: health effects and prevention. *Nat Rev Endocrinol*. 2016 May; 12(5): 274–289
3. Ramakrishnan U. Prevalence of micronutrient malnutrition worldwide. *Nutr Rev*. May 2002; (II): S46–S52
4. World Health Organization and Centers for Disease Control and Prevention. The global prevalence of anaemia in 2011 [internet]. 2015 (diakses Juli 2019). Tersedia dari http://www.who.int/nutrition/publications/micronutrients/global_prevalence_anaemia_2011/en/
5. E. McLean, I. Egli, M. Cogswell, B. de Benoist, dan D. WJodyl. 2007. Worldwide prevalence of anemia in preschool aged children, pregnant women and non-pregnant women of reproductive age. Dalam Basel, J. Badham, M. B. Zimmermann, and K. Kraemer (Ed), *Nutritional Anemia*. Switzerland: Sight and Life Press.
6. S.-R. Pasricha and H. Drakesmith. Iron deficiency anemia: problems in diagnosis and prevention at the population level. *Hematology/Oncology Clinics of North America*. 2016;30(2):309–25.
7. Kementrian Kesehatan RI. Hasil utama Riskesdas 2018. Jakarta: Kemenkes RI; 2018.
8. Bappeda Provinsi Sumatera Barat. Data pembangunan Provinsi Sumbar. Badan Perencanaan Pembangunan Daerah Sumatera Barat. [http://sdp2d.sumbarprov.go.id/data_profil/html2print/244/0/2/2012-2016-Diakses 2 Oktober 2019](http://sdp2d.sumbarprov.go.id/data_profil/html2print/244/0/2/2012-2016-Diakses%20Oktober%202019)
9. BPS Kabupaten Agam. Kabupaten Agam dalam Angka; 2018
10. Sifakis S, Pharmakides G. Anemia in pregnancy. *Ann N Y Acad Sci*. 2000;900:125-36.
11. Matthew J. Warner, Muhammad T. Kamran. *Anemia, Iron Deficiency*: StatPearls Publishing; 2019

12. Harvey T, Zkik A, Auges M, and Clavel T. Assessment of iron deficiency and anemia in pregnant women: an observational french study. *Womens Health (Lond)*. 2016 Jan; 12(1): 95–102.
13. Bencaiova G, Breymann C. Mild anemia and pregnancy outcome in a Swiss collective. *J. Pregnancy*. 2014;1-8
14. Sanghyi TG, Harvey PW, Wainwright E. Maternal iron-folic acid supplementation programs: evidence of impact and implementation. *Food Nutr*. 2010; 31(Suppl. 2):100–107
15. Peña-Rosas JP, De-Regil LM, Garcia-Casal MN, Dowswell T. Daily oral iron supplementation during pregnancy. *Cochrane Database Syst Rev*. 2015 Jul 22;(7)
16. Rizki Fadlina, Lipoeto Nur Indrawati, Ali Hirowati. Hubungan suplementasi tablet fe dengan kadar hemoglobin pada ibu hamil trimester III di Puskesmas Air Dingin Kota Padang. *Jurnal FK Unand*. 2017;6(3):502-6
17. Imdad A, Bhutta ZA. Routine iron/folate supplementation during pregnancy: effect on maternal anaemia and birth outcomes. *Paediatr Perinat Epidemiol*. 2012;26:168–177
18. Saaka, Mahama. Combined iron and zinc supplementation improves haematologic status of pregnant women in upper west region of Ghana. *Ghana Med J*. 2012; 46(4):225-233
19. Fishman SM, Christian P, West Jr KP. The role of vitamins in the prevention and control of anaemia. *Public Health Nutrition*. 2000; 3(2):125-150
20. Hamdy AM, Aleem Muhammad A, El-Shazly AA. Maternal vitamin A deficiency during pregnancy and its relation with maternal and neonatal hemoglobin concentrations among poor Egyptian families. *ISRN Pediatr*. 2013; 2013: 1-6
21. Marangoni F, Cetin I, Verduci E, Canzone G, Giovannini M, Scollo P, Corsello G, Poli A. Maternal diet and nutrient requirements in pregnancy and breastfeeding. An Italian Consensus Document. *Nutrients*. 14 Oktober 2016;8(10):1-17.

22. L.M, Paciorek C, Flaxman S, Branca F, ET Peña-Rosasegional. Global, regional, and national trends in total and severe anaemia prevalence in children and pregnant and non pregnant women. *Lancet Glob Health* 2013; 1: 16-25
23. Cetin I, Berti C, Mandò C, Parisi, F. Placental iron transport and maternal absorption. *Ann. Nutr. Metab.* 2011;59(1):55-8
24. Allen, L.H. Anemia and iron deficiency: Effects on pregnancy outcome. *Am J. Clin Nutr.* 2000 May;71(5):1280-4
25. Khambalia AZ, Collins CE, Roberts CL, Morris JM, Powell KL, Tasevski V, Nassar N. Iron deficiency in early pregnancy using serum ferritin and soluble transferrin receptor concentrations are associated with pregnancy and birth outcomes. *Eur J Clin Nutr.* 2016 Mar;70(3):358-63
26. Alwan NA, Cade JE, McArdle HJ, Greenwood DC, Hayes HE, Simpson NA. Maternal iron status in early pregnancy and birth outcomes: insights from the baby's vascular health and iron in pregnancy study. *Br J Nutr.* 2015 Jun 28;113(12):1985-92
27. Krebs, NF, Domellöf M, Ziegler E. Balancing benefits and risks of iron fortification in resource-rich countries. *J Pediatr.* 2015 Oct;167(4):S20-5.
28. Kelkitli Engin, et al. Serum zinc levels in patients with iron deficiency anemia and its association with symptoms of iron deficiency anemia. *Ann Hematol.* 2016; 95(5).
29. Gammoh NZ, Rink L, zinc in infection and inflammation. *Nutrients.* 2017; 9 (6):624.
30. Chaffee BW, King JC. Effect of zinc supplementation on pregnancy and infant outcomes: a systematic review. *Paediatric and Perinatal Epidemiology.* 2012; 26 (Suppl. 1):118–137.
31. Ian Darnton Hill. Zinc supplementation during pregnancy. e-Library of Evidence for Nutrition Actions (eLENA) WHO. 2013. Tersedia di https://www.who.int/elena/titles/bbc/zinc_pregnancy/en/ -Diakses Juli 2019

32. Hoey L, McNulty H, Duffy ME, Hughes CF, Strain JJ. EURRECA- Estimating folate requirements for deriving dietary reference values. *Crit. Rev. Food Sci. Nutr.* 2013; 53: 1041–1050.
33. Pietrzik K, Bailey L, Shane B. Folic acid and L-5-methyltetrahydrofolate: comparison of clinical pharmacokinetics and pharmacodynamics. *Clin Clin Pharmacokinet.* 2010; 48:535-548.
34. Bodnar LM, Himes KP, Venkataramanan R, et al. Maternal serum folate species in early pregnancy and risk of preterm birth. *Am J Clin Nutr.* 2010;92:864-871.
35. Suh JR, Herbig AK, Stover PJ. New perspectives on folate catabolism. *Annu Rev Nutr.* 2001; 21:255-282.
36. Cawley S, Mullaney L, McKeating A, Farren M, McCartney D, Turner MJ. A review of European guidelines on periconceptional folic acid supplementation. *Eur. J. Clin. Nutr.* 2016; 70: 143–154.
37. Bibbins-Domingo K, Grossman DC, Curry SJ, et al. Folic acid supplementation for the prevention of neural tube defects: US preventive services task force recommendation statement. *JAMA* 2017; 317: 183–189.
38. Viswanathan M, Treiman KA, Kish-Doto J, et al. Folic acid supplementation for the prevention of neural tube defects: an updated evidence report and systematic review for the US preventive services task force. *JAMA* 2017; 317: 190–203.
39. Cañete A, Cano E, Muñoz-Chápuli R, Carmona R. Role of Vitamin A/Retinoic Acid in Regulation of Embryonic and Adult Hematopoiesis. *Nutr.* 2017;9(159):1-18
40. Checkley W, West KP, Wise RA. Maternal vitamin A supplementation and lung function in offspring. *N Engl J Med.* 2010; 362:1784–1794
41. Akhtar S, Ahmed A, Randhawa MA, Atukorala S, Arlappa N, Ismail T, Ali Z. Prevalence of vitamin A deficiency in South Asia: Causes, outcomes, and possible remedies. *J. Health Popul. Nutr.* 2013; 31: 413–423.

42. World Health Organization. Global prevalence of vitamin A deficiency in populations at risk. WHO. 2009. Tersedia di <http://www.who.int/vmnis/vitamin/prevalence/en/>.
43. Bailey RL, West K.P., Jr.; Black, R.E. The epidemiology of global micronutrient deficiencies. *Ann. Nutr. Metab.* 2015; 66:22–33.
44. Smith A, Di Primio G, Humphrey-Murto S. Scurvy in the developed world. *Cmaj.* 2011;183(11):752-5.
45. Lau H, Massasso D, Joshua F. Skin, muscle and joint disease from the 17th century: scurvy. *Int J Rheum Dis.* 2009;12(4):361–5.
46. Skrovanek S, DiGuilio K, Bailey R. Zinc and gastrointestinal disease. *World J Gastrointest Pathophysiol.* 2014; 5:496-513.
47. Turner J, Badireddy M. Anemia. StatPearls Publishing; 2019
48. WHO. Micronutrient deficiencies. Iron deficiency anaemia. 2011. Tersedia di www.who.int/nutrition/topics/ida/en/index.html. Diakses Agustus 2019
49. Prakash, Satyavan Yadav, Khushbu. Maternal anemia in pregnancy: an overview. *Ijppr.Human*, 2015; Vol. 4 (3): 164-179.
50. Wirawan R. Pemeriksaan laboratorium hematologi. Jakarta: FKUI; 2012
51. Gandasoebrata R. Penuntun laboratorium klinik. Dian Rakyat; 2007:8-19.
52. McPherson RA, Pincus, MR. Henry's clinical diagnosis and management by laboratory methods (22 ed.). Philadelphia: Saunder Elsevier; 2011
53. Randox Laboratories Limited, Hemoglobin (Hb) colorimetric method manual. United Kingdom; 2008
54. Kumar KJ, Asha N, Murthy DS, Sujatha MS, Manjunath VG. Maternal anemia in various trimesters and its effect on newborn weight and maturity: an observational study. *Int J Prev Med.* 2013 Feb; 4(2): 193–199.
55. Blackburn S. Chapter 8. Hematologic and hemostatic systems. Dalam *Maternal, Fetal, & Neonatal Physiology*. 4th ed. London, United Kingdom: Elsevier; 2013:216–246.

56. Sanghavi M, Rutherford JD. Cardiovascular physiology of pregnancy. *Circulation*. 2014;130:1003–1008.
57. F Parisi, I di Bartolo, VM Savasi dan I Cetin. Micronutrient supplementation in pregnancy: who, what and how much?. *Obst Med*. 2018; 0(0):1–9
58. Sirajuddin, Sumita, Astuti T. *Survey Konsumsi Pangan*. Jakarta Selatan: Kementerian Kesehatan;2018.
59. Charlebois, S. Food recalls, systemic causal factors and managerial implications the case of premiere quality foods. 2011; 113(5):625–636.
60. Knez M, Graham RD, Welch RM, Stangoulis JC. New perspectives on the regulation of iron absorption via cellular zinc concentrations in humans. *Crit. Rev. Food Sci. Nutr*. 2017; 57 (10):2128–2143.
61. Milman N. Iron and pregnancy—a delicate balance. *AnnHematol*. 2006;85:559–565
62. Koury MJ, Ponka P. New insights into erythropoiesis: the role of folate, vitamin B12 and iron. *Annu Rev Nutr*. 2004;24:105-131.
63. Moore CA, Adil A. Macrocytic anemia. *StatPearls [Internet]*; 2019.
64. Bentley S, Hermes A, Phillips D. Comparative effectiveness of a prenatal medical food to prenatal vitamins on hemoglobin levels and adverse outcomes: a retrospective analysis. *Clin Therapeut*. 2011;33:204-210.
65. Neves PAR, Castro MC, Oliveira CVR. Effect of vitamin a status during pregnancy on maternal anemia and newborn birth weight: results from a cohort study in the Western Brazilian Amazon. *Eur J Nutr*. 2018:1-12
66. Michelazzo FB, Oliveira JM, Stefanello J, Luzia LA, Rondó PHC. The influence of vitamin a supplementation on iron status. *Nutrients*. 2013; 5: 4399-4413
67. Da Cunha MS, Siqueira EM, Trindade LS, Arruda SF. Vitamin A deficiency modulates iron metabolism via ineffective erythropoiesis. *J. Nutr. Biochem*. 2014; 25: 1035–1044.
68. Citelli M, Bittencourt L, Da Silva S, Pierucci A, Pedrosa C. Vitamin a modulates the expression of genes involved in iron bioavailability. *Biol. Trace Element Res*. 2012; 149: 64–70.

69. Zhang X, Chen K, Qu P, Liu YX, Li TY. Effect of biscuits fortified with different doses of vitamin A on indices of vitamin A status, hemoglobin and physical growth levels of pre-school children in Chongqing. *Public Health Nutr.* 2010; 13: 1462–1471.
70. Wibowo N, Bardosono S, Irwinda R, Syafitri I, Putri AS, Prameswari N. Assessment of the nutrient intake and micronutrient status in the first trimester of pregnant women in Jakarta. *Med J Indones.* 2017;26:109–15.
71. Lampinen R, Vehviläinen-Julkunen K, Kankkunen Päivi. A review of pregnancy in women over 35 years of age. *The Open Nursing Journal.* 2009;3:33-38.
72. Bellieni C. The best age for pregnancy and undue pressures. *J Family Reprod Health.* 2016 Sep; 10(3): 104–107.
73. Balascha Juan dan Eduard G. Delayed childbearing: effects on fertility and the outcome of pregnancy. *Curr Opin Obstet Gynecol.* 2012;24;187–193.
74. Patimah S, Hadju V, Bahar B, Abdullah Z. Pola konsumsi dan kadar hemoglobin pada ibu hamil di kabupaten Maros, Sulawesi Selatan. *Makara, Kesehatan.* 2011;15(1): 31-36.
75. Nurmasari V, Sumarmi S. Hubungan keteraturan kunjungan antenatal care dan kepatuhan konsumsi tablet fe dengan kejadian anemia pada ibu hamil trimester iii di Kecamatan Maron Probolinggo. *Amerta Nutr.* 2019. 46-51
76. Judistiani RTD, Wibowo MA, Sugianli AK, Prihatni D. Kecukupan asupan zat besi dan protein pada ibu hamil trimester I : masihkah berkaitan dengan kadar ferritin serum ?. *Jurnal PKM Unpad.* 2018; 2(9):1-8
77. Rahayu S, Gumilang L. Astuti S, Nirmala SA. Judistiani TD. Survei asupan asam folat dan seng pada ibu hamil di Jawa Barat. *Jurnal Kesehatan Vokasionalb.* 2019;4(3):1-8.

78. Bardosono, Saptawati. Maternal micronutrient deficiency during the first trimester among Indonesian pregnant women living in Jakarta. *Jurnal UI*. 2016; 4(2):76-81
79. Setyaningsih W, Ani LS, Utami NWA. Iron folate consumption, energy and iron adequacy level associated with prevalence of anaemia among pregnant women in Jember. *Public Health and Preventive Medicine Archive (PHPMA)*. 2015; 3(1): 3-10.
80. Astriningrum EP, Hardinsyah, Nurdin NM. Asupan asam folat, vitamin b12 dan vitamin c pada ibu hamil di Indonesia berdasarkan studi diet total. *J. Gizi Pangan*. Maret 2017; 12(1):31-40
81. Greenberg JA,¹ Stacey JB, Guan Y, Yan-hong Yu. Folic acid supplementation and pregnancy: more than just neural tube defect prevention. *Reviews In Obstetrics & Gynecolog*. 2011; 4(2);52-59
82. Veronica E. Ohrvik dan Witthoft CM. Human folate bioavailability. *nutrients*. 2011 Apr; 3(4): 475–490.
83. Zekovic M, Djekic-Ivankovic M, dan Glibetic M. Validity of the food frequency questionnaire assessing the folate intake in women of reproductive age living in a country without food fortification: application of the method of triads. *Nutrients*. 2017 Feb; 9(2): 128.
84. Shelke N Keith L. Folic acid supplementation for women of childbearing age versus supplementation for the general population: a review of the known advantages and risks. *Int J Family Med*. 2011; 1-4
85. Rif'ani Rifa. Hubungan tingkat kecukupan karotenoid, flavonoid, zink dan asam folat dengan kadar hemoglobin ibu hamil di wilayah puskesmas pringsurat kabupaten Temanggung (Tesis). Semarang; Universitas Muhammadiyah Semarang; 2017:1-65
86. Sukarno, Slamet. Pengembangan dan validasi metode analisis penetapan kadar vitamin a dalam minyak goreng sawit secara kromatografi cair kinerja tinggi (Tesis). Bogor: Institut Pertanian Bogor; 2011.
87. Winarno FG. 2008. Kimia Pangan dan Gizi. Bogor: M-Brio Press.

88. Caesaria DC. Hubungan asupan zat besi dan vitamin c dengan kadar hemoglobin pada ibu hamil di Klinik Usodo Colomadu Karanganyar (Tesis). Surakarta; Universitas Muhammadiyah Surakarta; 2015.
89. Lee S, Choi Y, Sung J. Effect of different cooking methods on the content of vitamins and true retention in selected vegetables. *Food Sci Biotechnol*. 2018 Apr; 27(2): 333–3
90. Dinas Kesehatan Provinsi Sumatera Barat. Profil Dinas Kesehatan Sumatera Barat 2019. Padang: Dinkes Provinsi Sumatera Barat.
91. Wang C, Lin Li, Su Rina, Zhu W, Wei Y, Yan Jie, et al. Hemoglobin levels during the first trimester of pregnancy are associated with the risk of gestational diabetes mellitus, pre-eclampsia and preterm birth in Chinese women: a retrospective study. *BMC Pregnancy and Childbirth*. 2018;18(263):1-11
92. Asrie F. Prevalence of anemia and its associated factors among pregnant women receiving antenatal care at Aymiba Health Center, northwest Ethiopia. *Journal of blood medicine*. 2017;8;35-40
93. Sunuwar DR, Sangroula RK, Shakya NS, Yadav R, Chaudhary NK, Pradhan PMS. Effect of nutrition education on hemoglobin level in pregnant women: A quasi-experimental study. *PLoS One*. 2019; 14(3): 1-12
94. Natalia S, Sumarmi S, Nadhiroh SR. Cakupan anc dan cakupan tablet fe hubungannya dengan prevalensi anemia di Jawa Timur. *Media Gizi Indonesia*. 2017;11(70):70-76
95. Bhargava A, Scrimshaw NS, Bouis HE. Dietary intakes and socioeconomic factors are associated with the hemoglobin concentration of Bangladeshi women. *Journal of Nutrition*. April 2001; 131(3):758-764 .
96. Breymann C. Iron deficiency anemia in pregnancy. *Semin Hematol*. 2015 Oct;52(4):339-47.

97. Loy SL, Lim LM, Chi C. Iron status and risk factors of iron deficiency among pregnant women in Singapore: a cross-sectional study. BMC Public Health. 2019;19(397):1-10
98. Barragán G, Santoyo IA, Ramos SCO, Peñafiel. Iron deficiency anaemia. Rev Med Hosp Gen Méx. 2016;79(2):88-97
99. Besuni A. Jafar N, Indriasari R. Nutrients intake relationship forming red blood cells with hemoglobin levels in pregnant women in Gowa regency. Jurnal Media Kesehatan Masyarakat Indonesia. Universitas Hasanudin. 2013;1-10
100. Bauw NR, Candra A. Hubungan asupan mikronutrien dengan jenis anemia pada ibu hamil. Jurnal Kedokteran Diponegoro. 2017;6(2):993-1000
101. Fitri YP, Briawan D, Tanziha I, Madanijah S. Tingkat kecukupan dan bioavailabilitas asupan zat besi pada ibu hamil di kota Tangerang. Jurnal MKMI. 2016;12(3): 185-191.
102. Zijp IM, Korver O, Tijburg LB. Effect of tea and other dietary factors on iron absorption. Crit Rev Food Sci Nutr. 2000 Sep;40(5):371-98
103. [Hurrell R](#), [Egli I](#). Iron bioavailability and dietary reference values. *The American Journal of Clinical Nutrition*. 2010; 91(5):1461–467
104. Pratiwi R, Widari D. Hubungan konsumsi sumber pangan enhancer dan inhibitor zat besi dengan kejadian anemia pada ibu hamil. Amerta Nutr. 2018; 0(0):283-291.
105. Lönnerdal B. Dietary factors influencing zinc absorption. J Nutr. 2000 May;130(5S Suppl):1378-83.
106. Belay E, Endrias A, Alem B, Endris K. Hematological responses to iron-folate supplementation and its determinants in pregnant women attending antenatal cares in Mekelle City, Ethiopia. PLoS One. 2019 February 22; 14(2):1-12.
107. Briawan, D. 2014. Anemia masalah gizi pada remaja wanita. Jakarta: EGC

108. Sahana ON, Sumarmi S. Hubungan asupan mikronutrien dengan kadar hemoglobin pada wanita usia subur (wus). *Media Gizi Indonesia*. 2015;10(2):184–191.
109. Gilbert C. What is vitamin A and why do we need it?. *Community Eye Health*. 2013; 26(84): 65.
110. Lindstrom E, Hossain B Mohammad, Lonnerdal Bo, Raqib R, El Arifeen S Dan Ekstrom Ec. Prevalence of anemia and micronutrient deficiencies in early pregnancy in rural Bangladesh, the MINIMat trial. *Acta Obstet Gynecol Scand*. 2011 Jan;90(1):47-56.

