

REFERENCES

- **Abdel Karim A M, Wassif S M, Refat A R, Wassif OH and El Morsy EA, (1990):-** "Some biological and hematological changes in workers exposed to lead". *Egy J Occup Med*; 14(2) : PP. 179–188.
- **Abd El-Rahman. S (2000):-** "Child psychiatry services in Egypt" International congress of the Egyptian Mental health NGOs in Association with the Egyptian psychiatric Association .15-17 February.
- **Abdel Rahman T, Aly M S, Shakour A A, Mohamad MI and Abdel Magid M, (1990):-** "Effect of occupational exposure to lead and cadmium on their accumulation in rat tissues". *Egy. J Occup. Med*; 14(2) : PP. 257–268.
- **Adams D A and Lyon G, (1983):-** "Neurology of Hereditary metabolic Disease in children". New York. Hemisphere publishing comp; PP. 369–370.
- **Aggett P J, (1994):-** "Zinc". In : Trace elements in infancy and childhood. *Annales Nestle*; 52(3) : PP. 94–106.
- **Aggette P J, (1979):-** "Spot lights on medical genetics". 4th ed. Al-Alhram press. Cairo; PP. 26–31.
- **Aoseth J, Norseth T, (1986):-** "Copper". Chapt 10 in Friberg L, Nordberg G and Vouk V (eds); *Handbook on the toxicology of metals* 2nd ed. New York: Elsevier; Science Publishers; PP. 223–254.

- **Arieti S, (1975) :-**The intra -psychic self . Feeling and Cognition in Health and Mental Illness. New York .Basic Books. Cotted from MD thesis (1990) by Azza Elbakry (Depressive and Agressive phenomena in groups psychotherapy) .
- **ATSDR, (1993):-** “Toxicological profile of lead”. Department of Health and Human Services, Public Health Service. Agency for Toxic Substances and Disease Registry.
- **ATSDR, (1988):-** “The nature and extent of lead poisoning in children in the United States”. A report to Congress Atlanta, GA : US, Department of Health and Human Services, Public Health Service, Agency for Toxic Substances and Disease Registry.
- **Badr FM, (1972):-** “Genetic study of Egyptian Nubia population”. The frequency of types of consanguineous marriages. Human Hereditary; PP. 322–387.
- **Baloh R, Sturm R, Green B and Glessner G, (1975):-** “Neuro-psychological effects of chronic asymptomatic increased lead absorption”. Arch Neurol; 32 : PP. 326–30.
- **Barkley RE, (1995):-** “Attention-deficit-Hyperactivity Disorder : A Handbook for Diagnosis and Treatment”. New York : Guilford press.
- **Baron R A, (1980):-** “Aggression “in H I Kaplen ,A.M .Freedman B J Sadock (eds) .Comprehensive ,Textbook, of psychiatry Vol. III Baltimore : William & Wilkins pp 835-48.

- **Barlow, P J, and Kapel M,(1980):-** Metal and sulfur contents of hair in relation to certain metal states ,in : Hair Trace Elements and Human Illness, A.C brown and R.G Crounse (Eds) New York, praeger publishers: PP. 105-27.
- **Bellinger D, Stiles K and Needleman H.(1992):-** “Low-lead level exposure ,intelligence and academic achievement : along-term. follow up-study” *pediatrics* 90 : PP. 855-61.
- **Bellinger D, Leviton A, Waternaux C, Needleman H and Rabinowitz M, (1987):-** “Longitudinal analysis of prenatal and postnatal lead exposure and early cognitive development”. *N Engl J Med*; 316 : PP. 1037–1043.
- **Berry GT, (1997):-** “Metabolism”. In Pollen RA and Ditmar MF (eds); *Pediatric Secretes*, 2nd edition. Hanley and Belfus.
- **Bhave SA, Pandit AN, Singh S, Walia BNS and Tanner MS, (1992):-** “The prevention of Indian childhood cirrhosis”. *Annals of Tropical Pediatrics* :- 61,(7) : PP. 205-209 .
- **Biederman J, Faraone A and Milberger S, (1991):-** A prospective 4 year follow-up study of attention-deficit hyperactivity and related disorders. *Arch Gen Psychiatry*; 53 : P.437.
- **Bithoney W G, (1986):-** “Elevated lead levels in children with non-organic failure to thrive”. *Pediatr*; 78,5 : PP.891-95.

- **Blanchard RJ, Blanchard ,C D (1984) :-** "Advances in the study of Aggression Vol.1. Orlando :Academic press, Inc .
- **Bregman J D (1991):-** Current developments in understanding of mental retardation part II. Psychopathology. Am J .Acad. -Child Adolesc. Psychiatry; 30: PP.861-9 .
- **Browning E J, (1961):-** "Toxicity of industrial metals"; 83 : Butter Worth; PP. 238-313
- **Burch R E and Hahn K J, (1979):-** "Trace elements in human nutrition" Med. Clin . North Am; 63(5): P.1057.
- **Butrimoritz G P and Purdy W C, (1979):-** "Resolution of age dependent reference intervals : polynomial regression methodology with Applicability to plasma Zinc levels in Childhood population". Clin. Biochemistry; 12 : PP. 23-6.
- **Caliger J, Fieldsteel N and Brok A (1984) :-** "Individual and group therapy " , New York : basic book Inc.
- **Cantwell D P (1996) :-** "Attention Deficit Hyperactivity Disorder : review of the past 10 years" .Am Acad-child-psychiatry 31: PP. 423-5 .
- **Capel ID, Pinnock MH, Dorrell HM, Williams DE and Grant ECG, (1981):-** "Comparison of concentrations of some trace, bulk and toxic metals in the hair of normal and dyslexic children". Clin. Chem; 27(6) : PP. 879-881.

- **Carson B, Ellis H and Mc cann J, (1987):-** “Toxicology and biological monitory of metals in humans”. Cheleser MI. Lewis publishers.
- **Castillo-Duran C, Vial P and Uauy R, (1988):-** “Trace mineral balance during acute diarrhea in infants”. Journal of Pediatrics; 113 : PP. 452–457.
- **CDC, (1991):-** “Preventing lead poisoning in young children : A statement by Centers for Disease Control”. Atlanta GA.
- **CDC, (1981):-** “Use of lead tetraoxide as a folk remedy for gastrointestinal illness”. MMWR; 30 : PP. 546–7.
- **CDC (Centers for Disease Control), (1978):-** “Preventing lead poisoning in young children”. DHEW (CDC), publication no. Washington, DC. P. 2629.
- **Charles K, (1978):-** “Mental Retardation”. Approach prentics Hall inc. Englewood Cliffs NJP; P. 45.
- **Chen RW, Vasey EJ and Whanger PD, (1977):-** “Accumulation and Depletion of zinc in rat liver and kidney metallothioneins”. J Nutr; 107 : PP. 805–813.
- **Cherian MG and Goyer RA, (1978):-** “Metallothioneins and their role in metabolism and toxicity of metals”. Life Sci; 23 : 1 – 10.

- **Chlopicka J, Zagrodzki P, Zachuneja Z, Krosniak M and Folta M, (1995):-** “Use pattern recognition method in the interpretation of heavy metal content (lead – cadmium) in children’s scalp hair”. *Analyst*; 120 : PP. 943–945.
- **Cohen S R, (1979):-** “Environmental and occupational exposure to copper”. In Nriago JO (ed). *Copper in environment part II; Health Effects*. New York : John Wiley and Sons.
- **Comphell and McIntosh, (1992):-** “Mental Handicap”. In: *Textbook of Pediatrics*, Forfar OJ and Arneil GG (eds). Churchill Livingstone, Edinburg, London, Melborn and New York; P. 743.
- **Conard ME, Umbreit JN and Moore EG, (1991):** - “A role of mucin in the absorption of inorganic iron and other metal cations : a study in rats”. *Gastroenterol*, 100 : PP. 129–36.
- Cortes Toro E, GOEI JM, Busco J, Cheng Y, Kinova L, Matsibata J, Niese S, Sato T, Wesenberg GR, MurMtsa Y and Parr RM, (1993):-** “Assessing internal body burdens of environmental pollutants”. *J Radioanalytical and Nuclear Chemistry*; 167(2) : PP. 1413–421.
- **Coulter DL, (1995):-** “Mental retardation” In Steven Parker (ed). “Behavioral and Developmental Pediatrics”. PP. 220-232 .
- **Cousins RJ, (1983):-** “Metallothionein- aspect related to copper and zinc metabolism”. *J Inherited Metab Dis*; PP.615–21.

- **Cousins RJ, (1979):-** "Regulatory aspects of zinc metabolism in liver and intestine". Nutr Rev; 37 : PP. 97–103.
- **Crossman JH, (1983):-** "Classification in Mental Retardation". Washington DC. American Association of Mental Deficiency; P. 356.
- **Cummins SK and Goldman LR, (1992):-** Children show cognitive deficits from low-level lead toxicity". Pediatr; 9(6) : 995–7.
- **Cumpston AG, (1984):-** "Zinc alloyes and compounds in: encyclopedia of occupational safety and health". 2nd ed. Geneva; International Labour Office Press.
- **Dalton R and Forman MA (2000):-** "Autistic Disorder" in Behraman RE, Kligman RM and Jenson HB (Eds) .Nelson.Textbook of pediatrics 16th edition chap(27) WBS Saunders.co Philadelphia, London, Toronto. P. 87 .
- **Dalton R,(2000):-** "Distributive behavior" in Behraman RE, Kligman RM and Jenson HB (Eds) .Nelson.Textbook of pediatrics 16th edition chap(25) WBS Saunders.co Philadelphia, London, Toronto. pp. 72-84 .
- **Danks DM, (1988):-** "Copper deficiency in humans". Annual review of Nutrition; 8 : PP. 235–257.

- **Danks DM, champbell PE and Stevens BJ (1996):-** "Menkes syndrome" in Behraman. RE Wanghaman VC ,Nelson W.E (eds) Nelson Text book of pediatrics (15ed) chapter (424) .
- **Davidson L, (1994):-** "Minerals and trace elements in infant nutrition". Acta Pediatr Suppl; 395 : PP. 38–42 .
- **Davidson S, Passmove R, Brock JF and Truswell AS, (1979):-** "Human nutrition and Dietetics". Churchill Livingstone Edinburg, London, New York, 7th ed.; 107.
- **Depke JT, (1991):-** "Calcium, magnesium and zinc supplementation and perinatal outcomes". Clin Obstet Jun; 34(2) : PP. 262–7.
- **Dietrich KN, Krafft KM, Pearson DT, Harris LC and Borischein RL, (1985):-** "Contribution of social and developmental factors to lead exposure during the first year of life". Pediatr; 75(6) : PP. 1114–9.
- **Dosen A (1989):-** Diagnosis and Treatment of mental illness in mentally retarded children :A developmental model .Child Psychiatry Hum. Dev PP. 20-73 .
- **Dyer FJ, (1993):** - "Clinical presentation of the lead-poisoned child on mental ability tests". J Clin Psychol; 49(1) : PP. 94–101.

- **Egyptian diagnostic manual of psychiatric disorders, (1979)- The Egyptian psychiatric Association (1979):-** Diagnostic manual of psychiatric disorders. Cairo-Atwa press.
- **EL-Dod AS, Fahmy EM ,Michael VS, El-Sheikh HE and EL-Hammady MM (2000)** "Impact of mentally Retarded child open. The parent" International Congress of the Egyptian Mental Health NGos In Association with the Egypt ion Psychiatric Association .15-17 February.
- **Elider G G, Kjellstrom T, Lind B, Linnman L, Piscator M and Sunstead K, (1983):-** "Cadmium exposure from smoking cigarettes, variation with times & country". Environ Res.; 32 : pp. 220–227.
- **Ellenhorn MJ and Barcelox DC, (1988):-** "Diagnosis and treatment of Human Poisoning". Medical Toxicology briker J.D (ed). New York. Elsevier; PP. 1031–41.
- **EPA, (1986):-** "Air quality criteria for lead". Vols. EPA 600/8-83/02 A F. U.S. Environmental Protection Agency, Washington, DC.
- **Fergusson DM and Murwood LJ, (1993):-** "The effects of lead levels on the growth of word recognition in middle childhood". Int J Epidemiol; 22(5): PP. 891 – 7.
- **Fisher D, (1992A):-** "CoPPer". In Craven L (ed) Hazardous Materials Toxicology. Clinical Principles of Environmental Health.

- **Egyptian diagnostic manual of psychiatric disorders, (1979)- The Egyptian psychiatric Association (1979):-** Diagnostic manual of psychiatric disorders. Cairo-Atwa press.
- **EL-Dod AS, Fahmy EM ,Michael VS, El-Sheikh HE and EL-Hammady MM (2000)** "Impact of mentally Retarded child open. The parent" International Congress of the Egyptian Mental Health NGos In Association with the Egypt ion Psychiatric Association .15-17 February.
- **Elider G G, Kjellstrom T, Lind B, Linnman L, Piscator M and Sunstead K, (1983):-** "Cadmium exposure from smoking cigarettes, variation with times & country". Environ Res.; 32 : pp. 220–227.
- **Ellenhorn MJ and Barcelox DC, (1988):-** "Diagnosis and treatment of Human Poisoning". Medical Toxicology briker J.D (ed). New York. Elservier; PP. 1031–41.
- **EPA, (1986):-** "Air quality criteria for lead". Vols. EPA 600/8-83/02 A F. U.S. Environmental Protection Agency, Washington, DC.
- **Fergusson DM and Murwood LJ, (1993):-** "The effects of lead levels on the growth of word recognition in middle childhood". Int J Epidemiol; 22(5): PP. 891 – 7.
- **Fisher D, (1992A):-** "CoPPer". In Craven L (ed) Hazardous Materials Toxicology. Clinical Principles of Environmental Health.

Baltimore, Hong Kong, London-Munich-Philadelphia-Sydney-Tokyo. William and Wilkins Publishers.

- **Fisher D, (1992B):-** “Zinc”. In: Craven L (ed); in Hazardous Materials. Toxicology Clinical principles of Environmental Health. Baltimore, Hong Kong, London, Munich, Philadelphia, Sydney, Tokyo. William and Wilkins publishers.
- **Flanagan PR, Hamiliton DL, Haist J and Valberg LS, (1979):-** “The interrelationships between iron and lead absorption in iron-deficient mice”. Gastroenterl; 77 : PP. 1074–81.
- **Flanagan PR, Mclellan J, Haist J, Cherian MG, Chamberlain MJ and Valberg LS, (1978):-** “Increased dietary cadmium absorption in mice and human subjects with iron deficiency”. Gastroenterology; 74 : PP. 841–846.
- **Food and Nutrition Board (1980) :-** Recommended daily dietary allowances (5ed) no 9 U.S government office Washington .,D.C .
- **Forrest A, Riston B and Zealley A, (1973):-** “New Perspectives in Mental Handicap”. London Churchill Livingstone; P. 242.
- **Fosmire G L, (1990):-** “Zinc toxicity”. Am J Clin Nutr; 51(2) : P. 2257.
- **Freeland JH and Cousins RJ, (1976):-** “Zinc contents of selected foods”. J Am Diet Assoc; 68 : P. 526.

- **Friberg L, Elinder C G, Kjellstorm T and Nordberg GF (eds), (1986):-** "Cadmium and health". Cleveland CRC press.
- **Friberg L, Piscator M and Nordberg G, (1971):-** "Cadmium in the environment". Chem. – Rubber publ. Co, Cleveland, Ohio.
- **Frieden E, (1970):-** "Ceruloplasmin, a link between coPPER-iron metabolism". Nutr. Rev; PP. 28–87.
- **Friel JK and Andrews WL, (1994):-** "Zinc requirement of premature infants". Nutr Jan-Feb; 10(1): 63–5.
- **Friel JK, Andrews WL and Matthew JD, (1993):-** "Zinc suPPlementation in very low birth weight infants". J Pediatr Gastroenterol Nutr. July; 17(1) : 97–109.
- **Green M, (1980):-** "Mental Retardation". In: Pediatric diagnosis WB Saunders Company. Philadelphia, London, Toronto; P. 241.
- **Goldman S ,(1995) :-** "Disruptive behavior" in Parker.s (ed) Behavioral developmental pediatrics Boston, little brown and co; PP. 185-193.
- **Goldman S, Lyme R and Cara J, (1994):-** "Childhood lead poisoning in 1994". JAMA ; 272 : PP. 315–16.
- **Gossef TA, (1990):-** "Group IV Metals". In Principle of Clinical Toxicology. New York : Raven Press. Chapter (5) PP.221-9 .

- **Gossef TA and Bricker JD, (1984):** - "Lead". In: Principles of Clinical Toxicology. Gossef TA, Bricker JD (eds). 2nd edition, chapter; 10 :. Raven press, New York. PP.166-70 .
- **Goyer RA, (1991):** - "Toxic effects of metals : lead". In : Casarett and Doull's Toxicology. The Basic Science of Poisons. Amdur MO, Doull J and Klassen CD (eds). 4th edition, chapter 19 : Pergamon Press, New York. PP.639-49.
- **Goyer RA, (1986):-** "Toxic effects of metals". in Doull J, Kleessen CD and Amodur MO (eds). Casarett and Doull's toxicology: The basic science of poisons, New York: Macmillan; PP. 582-635.
- **Grandjean P and Bach E, (1986):-** "Indirect exposure the significance of by-stomas at work & at home". AMIND HYG Assoc J; 47 : PP. 819-24.
- **Greene T and Ernhart C (1993):-** Dentine lead and intelligence prior to school entry : a statistical sensitivity analysis. J. Clin Epidemiol .46; PP.323-39.
- **Gregus Z and Klassen CO, (1986):-** "Disposition of metals in rats: a comparative study of fecal, urinary and biliary excretion and tissue distribution of eighteen metals". Toxicol APPI Pharmacol; 85 : PP. 24-38.

- **Grosby SB, Tasy JY and Andrews M (1977):** - "Kohoe lead balance data in humans : variability". *Toxicol Appl Pharmacol* ; 37 : PP. 159–60.
- **Grossman J H (1983):-** "Classification of Mental Retardation (1983) rev. Washington, DC, American Association of Mental Deficiency. P. 356.
- **Guggenheim K, Ilan J, Fostick M and Tal E, (1963):-** "Prevention of [Meat anemia] in mice by coPPER and calcium". *J Nutr*; 79 : P.245.
- **Hafaz A N and Kassium F N (1993):-** :Ain shamms. Test for forms of aggressive behavior among children" .The Anglo .Egyption library.
- **Hambidge KM, Walravens PA, (1982):** - "Disorder of minerals metabolism". *Clin Gastroenteral*; 11(1) : PP. 87–117.
- **Hambidge M, (1993):-** "Trace Element Deficiencies In Childhood". In : Suskind RM and Lewinter L (eds). *Text book of Pediatric Nutrition* 2nd edition. Raven press Ltd New York PP. 115–126.
- **Hammouda MA (2000) :-** "Attention Deficit Hyperactivity Disorder A therapeutic Trial" International Congress Of the Egyptian Mental Health .NGos In Association with the Egyptian Psychiatric Association 15-17-February .

- **Grosby SB, Tasy JY and Andrews M (1977):** - "Kohoe lead balance data in humans : variability". *Toxicol APPI Pharmacol* ; 37 : PP. 159–60.
- **Grossman J H (1983):**- "Classification of Mental Retardation (1983) rev. Washington, DC, American Association of Mental Deficiency. P. 356.
- **Guggenheim K, Ilan J, Fostick M and Tal E, (1963):**- "Prevention of [Meat anemia] in mice by coPPer and calcium". *J Nutr*; 79 : P.245.
- **Hafaz A N and Kassium F N (1993):**- :Ain shamms. Test for forms of aggressive behavior among children" .The Anglo .Egyption library.
- **Hambidge KM, Walravens PA, (1982):** - "Disorder of minerals metabolism". *Clin Gastroenternal*; 11(1) : PP. 87–117.
- **Hambidge M, (1993):**- "Trace Element Deficiencies In Childhood". In : Suskind RM and Lewinter L (eds). *Text book of Pediatric Nutrition* 2nd edition. Raven press Ltd New York PP. 115–126.
- **Hammouda MA (2000) :-** "Attention Deficit Hyperactivity Disorder A therapeutic Trial" International Congress Of the Egyptian Mental Health .NGos In Association with the Egyptian Psychiatric Association 15-17-February .

- **Grosby SB, Tasy JY and Andrews M (1977):** - "Kohoe lead balance data in humans : variability". *Toxicol Appl Pharmacol* ; 37 : PP. 159–60.
- **Grossman J H (1983):**- "Classification of Mental Retardation (1983) rev. Washington, DC, American Association of Mental Deficiency. P. 356.
- **Guggenheim K, Ilan J, Fostick M and Tal E, (1963):**- "Prevention of [Meat anemia] in mice by coPPer and calcium". *J Nutr*; 79 : P.245.
- **Hafaz A N and Kassium F N (1993):**- :Ain shamms. Test for forms of aggressive behavior among children" .The Anglo .Egyptian library.
- **Hambidge KM, Walravens PA, (1982):** - "Disorder of minerals metabolism". *Clin Gastroenterol*; 11(1) : PP. 87–117.
- **Hambidge M, (1993):**- "Trace Element Deficiencies In Childhood". In : Suskind RM and Lewinter L (eds). *Text book of Pediatric Nutrition* 2nd edition. Raven press Ltd New York PP. 115–126.
- **Hammouda MA (2000) :-** "Attention Deficit Hyperactivity Disorder A therapeutic Trial" International Congress Of the Egyptian Mental Health NGOs In Association with the Egyptian Psychiatric Association 15-17-February .

- **Hampfreys L G, (1972):-** “Theory of intelligence unpublished manuscript”. Psychology Department Urbana: University of Illinois Coated from The child [from three to eighteen]. The CV Mosby Company P. 22.
- **Hassan WN (2000):-** "A Study of Attention Deficit Hyperactivity Disorder among elementary school children in Assuit City. International Congress of the Egyptian Mental Health NGos In Association with the Egyptian psychiatric Association 15-17 February.
- **Healy A, (1987):-** “Mental retardation” Alfred Healy Pediatrics in review; 9(1) : P. 15.
- **Heard MJ, Wells AC, Newton D et al., (1978):-** “Human uptake and metabolism of tetraethyl and tetramethyl lead vapor labeled with 203 Pb”. In: International Conference on Management and Control of Heavy Metals in the Environment. London, England. CEP consultants Ltd; PP. 103–8.
- **Hegerman E and Rjension C, (1990):-** ‘Treatment of Mental Retardation“ in Current Pediatric Diagnosis and Treatment”. Edited by William K and Hathaway et al., P. 44.
- **Hemberg F and Nordman D, (1972):** - “Environmental exposure to lead and children's ability”. N Engl J Med; 320 : PP.470–8.

- **Hill CH, Martone G and Payne WL, (1983):-** “In vivo interactions of cadmium with coPPer, zinc and iron”. Nutr; 80 : P. 227.
- **Hrudey SE, Chen W and Rousseaux CG, (1996A):-** “Cadmium”. In Bioavailability in environmental risk assessment. Boca Raton, New York, London, Tokyo. Lewis publisher.
- **Hrudey SE, Chen W and Rousseaux CG, (1996B):-** “CoPPer” in Bioavailebility in environmental risk assessment. Boca Raton, New York, London, Tokyo. Lewis Publisher.
- **HU H, PePPer L and Goldman R, (1991) :-** “Effect of repeated occupational exposure to lead , cessation of exposure, and chelation on levels of lead in bone” . Am J Ind. Med. 20 : PP. 723-35.
- **Huel G, Tubert P, Frery N, Moreau T and Drey Fu J, (1992):**
- Joint effect of gestational age and maternal lead exposure on psychomotor development of the child at six years”. Neurotoxicol; 13(1) : PP.249–54.
- **Hussien FH, (1971):-** Endogamy in Egyptian Nubia. J Bio Soc- Sci; 3 : PP. 251 – 257.
- **IAEA (1980):-** Elemental analysis of biological materials .Current problems and Techniques with special references to trace elements. International. Atomic. Energy (IAEA) Vienna Technical reports. Series no 197.P.379.

- **Innes G, Kidd C and Ross HS, (1988):-** “Mental sub-normality in north East Scotland”. *British J Psychiat*; 114 : PP. 35–40.
- **Itavanainen M, (1974):-** “A study on the origins of mental retardation”. *Clinics in Develop Med.* ; 51 : P. 68.
- **Iyenger V and Woittiez J, (1988):-** “Trace elements in human clinical specimens: evaluation of literature data to identify reference values. *Clin Chem*; 34(3) : PP. 474–481.
- **James WPT, Anna F L and Waterlow J C, (1988):-** “Definition of chronic energy deficiency in adult, report of a working party of International Dietary Energy Consultant groups”. *Europ J Clin Nutr*; 42 : PP. 969–981.
- **Jenkins DW, (1979):-** “Toxic trace metals in mammalian hair and nails”. EPA report No 600(4) : PP. 79–049.
- **Jeyarathm J, Devathasan G and Ong C N, (1985):-** “Neurophysiological studies on workers exposed to lead”. *Br J Ind Med*; 42 : PP. 173–77.
- **Jiang H M, Han GA and Heul Z T (1990) :-** Clinical significance of hair cadmium content in diagnosis of mental retardates of children. *Chin. Med. J (Engl.)*: Apr.103:4. PP. 331-4 .
- **Kaene G.Z and Regain .C.M.(1985):-** “Lead neurontoxicity .In vitro studies on neural Cell culture systems” *Proc. International Conference on heavy Metals in the environment. Edinburgh .CEP. Consultants ltd. Vol. I : P.466 .*

- **Kaplen H I, and Sadock B T, (1998A):-** “Disruptive behavior in synopsis of psychiatry 8th ed chapter 43 London , Sydney. Baltimore. Maryland - William and Wilkins. PP. 1201-5 .
- **Kaplen H I, and Sadock BT, (1998B):-** “Mental retardation” in synopsis of psychiatry 8th ed chapter 37 London , Sydney. Baltimore. Maryland - William and Wilkins. pp. 1138-54.
- **Kaplen H I, and Sadock BT, (1998C):-** “Attention Dificit Hyperactivity disorder” in synopsis of psychiatry 8th ed chapter 42 London , Sydney. Baltimore. Maryland - William and Wilkins. pp. 1193-98.
- **Kaplen H I, and Sadock BT, (1998D):-** “Post Traumatic disorder” in synopsis of psychiatry 8th ed chapter 23 London , Sydney. Baltimore. Maryland - William and Wilkins. pp. 1129-43.
- **Karl E M, (1979):-** A concept of research on coPPer metabolism and requirements in man. J Nutr; 109 (11).
- **Kato T, (1983):-** “Overall analysis of the occurrence of itai-itai disease patients and their mortality (In Japanese)”. Kankyo Hoken Rep; 49 : PP. 121–124.
- **King J C and Keen C L, (1994):-** Zinc in modern nutrition, in Health and Disease. Vol (1), 8th ed. Mourica E, James A and Moshe S (eds) Philadelphia, Baltimore, Hong Kong, London, Awnich, Sydney, Tokyo, Awaverly Co, PP. 219–228.

- **King J C, (1986):-** "Zinc Nutrition in the United States". J Am Diet Assoc. ; 86 : PP.1523–1527.
- **Kingstan H M and Jassic L C,(1988):-** Introduction to Micro wave Sample preparation .Acs, Washington .DC .PP. 126-130.
- **Kirbright G F and Sargent M C (1974):-** "Atomic Absorption and fluorescence spectroscopy" Academic press .London .
- **Kjellstorm T, (1992):-** "Mechanism and epidemiology of bone effects of cadmium". IARC scientific publications; 118 : 301. WHO.
- **Kjellstrom T, (1986):-** "Cadmium effects on bone, on vitamin D and on calcium metabolism". In: Cadmium and Health. Vol II; "Effects and responses". Brockton, Fl, CRC Press, PP. 111–158.
- **Klaassen CD, (1986):-** "Heavy metals and heavy metals antagonists". In Gilman AG, Goodman LS, Rall TW and Murad F (eds). Goodman's the pharmacological basis of therapeutics; 7th ed– New York, Macmillan; PP.1605–1627.
- **Klevay L M, (1982):-** "Inflammatory diseases and copper". JRJ Sorenson (ed). Humana Press, Clifton NJ, PP. 123– 32.
- **Kohoe R A, (1987):-** "Studies of lead administration and elimination in adult volunteers under natural and experimentally induced conditions over extended periods of time". Food Chem Toxic; 25 : PP.425–93.

- **Landrigan P J ,(1989) :-** “Toxicity of lead at low dose” Br.J . Ind. Med. 46 : PP. 593-6 .
- **Landsdown R, Yule W and Urbanowicz M A, (1983):-** “Blood lead, intelligence, attainment and behavior in school children: a pilot study in Rutter M and Janes RR (eds), lead versus health”. New York John Wiley and Sons; PP. 267–96.
- **Lee R G, Becker W C and Collins D W(1989):-** “Lead at the tap sources and control . J.Am water workers Assoc. 81: PP. 52-62.
- **Lewis D O,(1991):-** “Conduct disorders” in M Lewis (ed), child and Adolescent psychiatry . Baltimore : williams and Wilkins . PP. 211-19.
- **Lin-Fu JS, (1982):-** “Children and lead”. New Engl. J Med.; 307 : PP. 615–17.
- **Lin-Fu J S, (1972):-** “Undue absorption of lead among children”. A new look at old problem. New Engl. J Med.; 286(13) : PP.702–10.
- **Linn L, (1980):-** “Clinical manifestation of psychiatric disorders “ in H I Kaplan, A M Freedman, B J Sadock, (5ed)Comprehensive Textbook of psychiatry .Vol. III Baltimore :William & Wilkins .
- **Luckasson R, (1992):-** “Mental retardation: definition, classification and systems of support”. Washington DC; American association on mental retardation.

- **Lyngbye T, Jorgensen P J, Grandjean P ,(1990):-** “Validity and interpretation of blood lead levels”. A study of Danish school children. *Scan J Clini. Lab. Invest.* ; 50 : PP. 441–9.
- **MacMillan, (1982):-** “Mental Retardation in schools and Society”. 2nd ed. Boston little Brown; P. 196.
- **Marceau N, (1979):-** “The use of radiocoPPer to trace coPPer metabolic transfer and utilization”. In Nriago JO (ed). *CoPPer in environment. Part II; Health effects*; New York: Johnwiley and Sons.
- **Marcus AM, Elias R and Cohen J, (1990):-** “Multimedia lead exposure in children: biological basis for an expanded uptake”. Biokinetic model, 2nd Annual Meeting of the Society of Toxicology The Toxicologist; PP. 10–20.
- **Markovac J and Goldstein GW, (1988):-** “Lead activates protein kinase-C in immature rat brain microvessel”. *Toxicol. APPL. Pharmacol.* ; 96 : PP.14–23.
- **Martin W D, Mayes A P and Rodwell W V, (1985):-** “Zinc” in *Harper's review of biochemistry*, 19th ed; P.579.
- **MC Michael A J, baghurst P A, Vimpani G V, Wigg N R and Robertson E F,(1988):-** .Tooth lead levels and IQ in school age children : The portpirie cohort study *Am J. Epidmiology.* 140 :6 September 15: PP.489-99.

- **Meissner WW, (1980):-** "Theories of personality and psychopathology " in .H.I Kaplan ,A.M. Freedman & B.J Sadock (eds) Comprehensive Textbook of psychiatry .Vol. III Baltimore ;William s &Wilkins.
- **Moynahan E J, (1974):-** "Acrodermatitis enteropathica, a lethal inherited human zinc deficiency disorder". Lancet; 2 : P.399.
- **MTA Cooperative group (1999):-** "Multimodel Treatment of ADHD A 14-Month Randomized Clinical Trial of Treatment Strategies for Attention. Deficit/hyperactivity Disorder." Arch Gen Psychiatry 56 : 1073-1086.
- **Muller-Hocker J, Meyer U and Wiebecke B ,(1988):-** "CoPPer storage disease of the liver and chronic dietary coPPer intoxication in two German infants mimicking Indian childhood cirrhosis". Pathology Research and Practice; 183 : PP. 39–45.
- **Munoz M, (1993):-** "Blood lead level and neurobehavioral development among children living in Mexico City". Arch Environ Health; 48 (3) : PP.132–9.
- **National Research Council, (1979):-** "Committee on medical biologic effects of environmental pollutants zinc". Baltimore; University Pork Press.
- **Needleman H L, (1994):-** "Preventing childhood lead poisoning". Prev. Med. ; 23(5) : PP. 634–7.

- **Needleman H L and Bellienger D, (1991):-** “Health effects of low level exposure to lead”. *Ann Rev Public Health*; 12 : 111–40.
- **Needleman H L, Gatsonis C A and Leviton A, (1990):-** “Low-level lead exposure and IQ of children : a meta-analysis of modern studies”. *JAMA.* ; 263 : PP. 673–8.
- **Needleman H L, Gunnone C and Leviton A, (1979):-** “Deficits in psychologic and classroom performance of children with elevated dentine lead levels”. *N Engl. J Med.*; 300 : PP. 689–95.
- **Nogawa K, Ishizaki A and Fukushima M, (1979):-** “Studies on women with acquired fanconi syndrome observed in Ichi River basin polluted by cadmium”. *Environ. Res.*; 10 : PP.280–307.
- **Nordberg E F, (1972):-** “Cadmium metabolism and toxicity”. *Environ. Physiol. Biochem.* ; 2 : PP. 7–36.
- **Norman E H ,bordley W C, Heart, pcciotto I and Newton DA(1994):-** “Rural-urban blood lead differences in North Carolina children .*Pediatrics*-94,1: PP. 59-64.
- **Nriag U and Jerome O, (1992):-** Toxic metal in Africa .*SCI-Total Environ.* 121: PP. 1-37.
- **Nurnberg H W, (1985):-** “Pollutants and their toxicological significance”. *Jhon Willy & Sons Ltd.*; 15 : PP. 205–427.

- **O'Dell BL, (1990):-** "CoPPer" In : Brown ML (ed) Present knowledge in nutrition, 6th ed. International Life Sciences Institute Nutrition Foundation, Washington DC.
- **O'Dell BL, (1976):-** "Trace elements in human health and disease". Vol. I Prasad AS (ed). Academic Press; New York.
- **Oelshegel F S and Brewer G J, (1977):-** "Absorption of pharmacological doses of zinc" in "Zinc metabolism, current aspects in health and disease". Brewer GJ and Prasad AS (eds) Academic press, New York : PP.299-308 .
- **Okasha A, (1988):-** "Okasha's clinical psychiatry". Cairo; The anglo. Egyptian book shope.
- **Organization for Economic Cooperation and Development Environment Directorate, (OECD) (1993):-** Risk reduction monograph no I. Lead background and experience with reducing risk. Paris 1993.
- **Orment L R ,(1984):-** " The leaders role in dealing with aggression in group's " Int. J. Group psychother. : 34:553-65 .
- **Osis I, Fanier I, Wait RowsKi E and Spensor H(1972):-** Dietary zinc intake in man Am. J Clin. Nutr: 25: PP. 582-5 .
- **Owens CA, (1982):** - "Physiological aspects of coPPer : coPPer in organs and systems". Park Ridge NJ : Noyse publications.

- **Owens CA, (1981):-** “Copper deficiency and toxicity, acquired and inherited in plant, animal, man”. Park Ridge; N.J: Noysc Publications.
- **Perrone L, Moro R, Garoli M, Ditoro R and Gialanalla G, (1996):-** “Trace elements in hair of healthy children sampled by age and sex”. In Biol. Trace Elem. Res.; 51 : PP.71–76.
- **Phil, RO, Drake H and Vrana F, (1980):-** “Hair analysis in learning and behavior problems in :Hair, Trace Element ,and Human Illness, A.C Brown and R.G .Crounse, (eds) New York :Praeger publishers . PP.128-42 .
- **Pihl RO and Parkes M, (1977):-** “Hair element content in learning disabled children”. Sci. ; 198 : PP. 205–206.
- **Philp RB, (1995):-** “Cadmium”. In Environmental Hazards and Human health. Elias R, Cohen J (eds). Boca Raton, New York, London, Tokyo. Lewis publisher.
- **Piomelli S, Rosen JF, Chisolm JJJ and Graef JW, (1984):-** “Management of childhood lead poisoning”. J Pediatr. 105(4) : PP. 523–2.
- **Pocock SJ, Smith M and Boghust P, (1994):-** “Environmental lead and children’s intelligence : systemic review of epidemiological evidence”. BMJ; 309 : PP. 1189–97.

- **Pocock SJ, Ashby D and Smith MA, (1989):-** “Lead exposure and children’s intellectual performance”. The institute of child health, Southampton study. In: Smith M, Grund LD and Sors A (eds): Lead exposure and child development, an international assessment. Lancaster UK, Kluwer Academic.
- **Pollock CA and Ibels LS, (1986):-** “Lead intoxication in paint removal workers on the Sidney Harbor Bridge”. Med. J Aust. ; 145 : PP. 635–9.
- **Prasad AS(1983):-** ”Clinical ,Biochemical and Nutritional spectrum of Zinc deficiency in Human subjects” :an update Nut. Rev.:41: P. 197.
- **Prasad AS, Abbasi A and Ortega J, (1977):-** In Brewer GJ, Prasad AS (eds). “Zinc metabolism, current Aspects in health and disease”. New York Alan Liss. ; PP. 211–236.
- **Rabinowitz MB, (1989):-** “Blood lead – tooth lead relationship among Boston children. Bull. Environ. Contam. Toxicol. ; 43: PP . 485–92.
- **Rabinowitz MB, Wang JD and Soong WT, (1991):-** “Dentine lead and child intelligence in Taiwan” Arch. Environ. Health. 46 : PP. 351-60.
- **Rabinowitz MB, Wetherill GW and Kopple JD, (1977):-** “Magnitude of lead intake from respiration by normal man”. J Clin. Med. ; 90: PP. 238–48.

- **Rady MA and Rady MY, (1986):-** "Human zinc in health and disease ". The Islamic World Medical Journal; 2(3) : PP. 29-32 .
- **Rosmanith J, Sinbrondt HJ and Jordon Th, (1975):-** "Relationships between emissions of plumb and zinc and levels of plumb, zinc and cadmium in blood, urine and hair in children". Central. Bl. Bacteriol. (B); 161:PP. 125-136.
- **Reiss S, (1994):-** In "The handbook of challenging behavior mental health". John Wiely and sons New York. PP. 128-35.
- **Richards MP and Cousins RJ, (1977):-** "Isolation of an intestinal metallothioneine induced by parentral zinc". Biochem. Biophys. Res. Commun.; 75 : PP. 288-294.
- **Rhainds M and Levallois P (1993):-** "Umbilical cord blood lead levels in the Quebec city area" Pediatr ., 48 (6) 421-5.
- **Rockway SW, Weber CW, Lee KY, and Kemberling SR, (1984):-** "Lead concentrations of milk, blood and hair in lactating women". Int. Arch Occup. Environ Health; 53 :PP.181-7.
- **Rossa AO, (1980):-** "Psychological disorders of children. A behavioral aPProach to theory-research and therapy". New York : McGraw-Hill; PP. 105.
- **Rossow J, Offermeier J and Van Rooyen JM, (1987):-** "Apparent central neurotransmitter receptor changes induced by low

level lead exposure during different developmental phases in the rat".
Toxicol. Appl. Pharmacol. ; 91 : PP.132-9.

- **Royce ES, Herdert L and Needleman H, (1990):-** "Case studies in environmental medicine". Lead Toxicity. ATSDR; PP.2-8.
- **Rutter M and Jones RR (eds), (1983):-** "Lead versus health sources and effects of low level lead exposure". John Wiley and Sons, New York. PP. 27-33.
- **Samual W, (1981):-** "personality Searching for the sources of Human Behavior" Kogakuska. ; McGraw -Hill .
- **Sandstr. m B, (1993):-** "Iron, Zinc and other trace elements". In : Human Nutrition and dietetics, 9th ed. New York Academic Press: PP. 188-194.
- **Sattler JM, (1982):-** "Assessment of children's intelligence". 2nd ed. Philadelphia-Saunders; PP. 79.
- **Schwartz J, (1994):-** "Low level lead exposure and children's IQ a meta analysis search for a threshold". Environ Res. ; 65(1) : PP. 42-55.
- **Sen J and Chaudhuri ABD, (1996):-** "Human hair, lead and copper levels in three occupationally unexposed population groups". In Bull Environ Contam. Toxicol. ; 57 : 321-326. Springier-Verlag. New York.

- **Shanon MW and Graef JW, (1992):-** "Lead intoxication in infancy". *Pediatr*; 90 : PP. 131–2.
- **Shaywitz SE and Shaywitz BA, (1984):-** "Diagnosis and management of attention deficit disorders: a pediatric perspective". *Pediat. Clin. North Am*; 31 : PP. 429–457.
- **Shonkoff G, (1992):-** "Mental Retardation". In: Behram R K, Wingham V C and Nelson W E (eds) . *Nelson Textbook of Pediatrics*; PP. 94. Saunders Co. Philadelphia, London, Toronto.
- **Shrestha KP and Carrera AE,(1988):-** "Hair Trace Element and Mental retardation among children". *Achieves of Environmental Health* Vol. 43. No 6: PP.396-8 .
- **Simon SR, Brand RF, Tindle BH and Burns SL, (1988):-** "Copper deficiency and sideroplastic anemia associated with zinc ingestion". *Am J Hematol.* ; 28 : PP. 181–83.
- **Smith M, Delves T and Lansdoven R, (1983):-** "The effects of lead exposure on urban children". *The Institute of Child Health (Southampton study). Dev. Med. Child Neurol.*; 25 (suppl. 47): PP. 130-7 .
- **Spitalny KC, Brondum J, Vogt R I, Sargent H E and Kappel S, (1984):-** "Drinking-water-induced copper intoxication in a Vermont family". *Pediatrics*; 74 : PP. 1103–1106.

- **Stiles KM and Bellinger DC, (1993):-** "Neuropsychological correlates of low level lead exposure in school age children: a prospective study". *Neuro. Toxicol. Teratol.* ; 15 : PP. 127–35.

Storr A (1973):- "Human Aggression " Bantom book /Atheneum . publisher.

- **Takagi Y, Matsuda S, Ohmori Y, Vinson JA and Mehra MC, (1986):-** "Trace elements in human hair an international comparison". *Bull Environ Contam. Toxicol.* ; 48 : PP. 27–32.

- **Taneja SK, Mahajan M and Arya P (1996):-** "Excess bioavialability of zinc may cause obesity in humans". *Experientia*; Jan 16; 52 (1) : PP. 31–3.

- **Terman DM and Mervill MA, (1973):-** "Stanford Binet Intelligence scale". 3rd ed. Boston, Houghton Mifflin; PP. 33.

- **Thompson GB, Ranb GM and Hepburn WS,(1989):-** "Blood lead levels and children behavior results from Edinburgh lead study". *J Child Psychol. Psychiatr.* ; 30 : 515–28.

Tuthill RW, (1996):- "Hair lead levels related to children's classroom Attention Deficit behavior". *Archives of Environmental Health*. May/June; 51(3) : 214–20.

- **Ulmer DD, (1983):-** "Disturbances in Trace elements metabolism" .Chap 84in: Petersof .R G, Adams W, Braunwerd E, Isseel bacher K, Martin J B and Wilson J (eds) *Harrison's principles of internal*

medicine ed.10th. Mcgraw-Hill international book company.
A Oakland ,Bogota, Guatemala ,London ,Paris and Tokyo:
PP.470-472.

- **Underwood EJ, (1977):-** “Trace element in Human and Animals Nutrition”. 4th ed. Academic press, New York.
- **Valciukas JA, Lilis R, Eisinger J, Blumberg WE, Fischbein A and Selikoff IJ, (1978):-** “Behavioral indicators of lead neurotoxicity: results of clinical field survey”. Int. Arch Occup. Environ Health; 41 : PP. 217–35.
- **Volkow ND, Wang GJ, Flower JS, Gatley SJ and Logan J (1998):-** “Dopamine Transporter Occupancies in Human Brain Induced by Therapeutic Doses of Oral Methylphenidate.” Am J. Psychiatry 155: 10 October.
- **Waalkes MP, Wahba ZZ and rodriguez RE, (1992):-** “Cadmium”. In Craven L (ed). In hazardous materials Toxicology and Clinical Principles of Environmental Health. Baltimore, Hong Kong, London, Munich, Philadelphia, Sydney, Tokyo. William and William publishers.
- **Waalkes MP and Oberderster G, (1990):-** “Cadmium carcinogenesis”. In Foulkes EC (ed); Metal carcinogenesis. Boca Raton CRC press.

- **Waldron HA, (1985):-** “Metals: Lead”. In Lecture notes on occupational medicine. Waldron HA (ed) 3rd edition chapter 4. Churchill Livingstone, London; 2: PP. 14–20.
- **Wechsler D, (1974):-** “Manual of Wechsler intelligence scale for children-revised”. New York. Psychological Corporation; PP. 62.
- **Weisman K, (1980):-** “Zinc metabolism and the skin”. in : Recent advances in dermatology, Rook A and Savin J (eds); Churchill Livingstone; 3 : 109.
- **Wender E, (1995):-** “Hyperactivity”. In: Parker S (ed) Developmental behavioral Pediatrics. Boston, Little Brown Co; PP. 185–193.
- **Wibowo AA, Herber RFM and Das HA, (1986):-** “Levels of metals in hair of young children as indicator of environmental pollution”. Environ Res.; 40 : PP. 346-56.
- **Williams RJP, (1989):-** “An introduction to biochemistry of zinc”. In: Mills DF (ed) “Zinc in humans biology”. Springer Verlag : London. PP. 15–31.
- **Yale W, Urbanowicz MA and Landsdown R, (1984):-** “Teacher’s rating of children’s behavior in relation to blood lead levels”. Br J Develop Psycho. ; 24 : PP. 295–305.

- **Yardick MK, Ittenney MA and Winter Felat FA, (1989):-** "Iron, copper and zinc status : response to supplementation with Zinc or Zinc and iron in adult females". Am J Clin. Nutr. ; 49: PP. 145-50.
- **Youroukos S, Lyberatos C, Philippido A, Gradikos C ,and Tsomi A,(1978):-** "Increased blood lead level in mentally retarded children in Greece "Arch Environ. Health Nov. Dec 33(6). PP. 297-300
- **Zielhuis OE, Stuik EJ and Herber PM (1977):-** "Smoking habits of Pb and Cd in blood in urban women". Int- Arch- Occup. Enviro. Health. 39 : 53-8 .

• مقياس ستانفورد بينيه للذكاء إقتباس وإعداد د. محمد عبد السلام أحمد ، د. لويس

كامل مليكيه ، مطبعة دار النهضة المصرية - القاهرة (١٩٨٦) .

• مقياس عين شمس لأشكال السلوك العدوانى لدى الأطفال . د. نادر فتحى القاسم

، د. نبيل عبد الفتاح حافظ . قسم الصحة النفسية كلية التربية - جامعة

عين شمس (١٩٩٣) .