

**THE EFFECTS OF LEAD UPON
HEALTHY INDIVIDUALS.
COMPILED AND ARRANGED
FROM 592 SELECTED
AUTHORITIES**

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BY

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Authorities. (Nos. 1 to 63, from Hartlaub and Trinks, *Mat. Med.*, 1, p. 8.) **1**, Bethmann; **2**, Hartlaub; **3**, Hering; **4**, Nenning; **5**, Trinks; **6**, *Act. Nat. Cur.*, Ann. III, Obs. XXX, effects in a worker in pewter; **7**, omitted; **8**, G. Baecker, *Trans. of Coll. of Physicians, in London*, and from Percival, effects of applying lead to a troublesome itching; **9**, Berni, *Rettungsmittel*; **10**, Boerhaave, *Elem. Chem.*, 2, 454; **11**, J. Alex. v. Brambilla, in Schmidt's *Antigoulard*, in part, effects of cosmetics in a girl; **12**, De Haen, *Ration. Medendi Contin.*, iii, 1, p. 403; **13**, Dioscorides, *Mat. Med.*, lib. VI, c. 27; **14**, Eittmüller, *Coll. Cons. Cas.*, 26; **15**, Fothergill, in *Abhandl. f. Pract. Ärzte*, 3, 519; **16**, Gabreely, in den *Abhandl. d. K. Jos. Med.-Chir., Acad.*, 1, 189, in a woman working in paints; **17**, Gardane, sur l'Electricite Med. avec des Rech. sur la Colique Metallique, Paris, 1778; **18**, Habenes, in Schmidt's *Antigoulard*, p. 145; **19**, Hahnemann, in *Henke's Zeit. f. die Staats.*, 7, 1, 151; **20**, Haase; **21**, Hecker, *Arzucim*; **22**, Hirn, in Schmidt's *Antigoulard*, p. 94; **23**, J. Fr. Henckel, Ueber die Bergsucht und Hüttenkatze, Freiberg, 1728; **24**, Herbstadt, from Orfila; **25**, Fr. Hoffmann, in der *Aun. zu Lotier Opper. Med. ac Chem.*, Frankfurt, 1698; **26**, Hohnbaum; **27**, Huberthy, in Fischer's *Antigoulard*, p. 87; **28**, Jahn, *Mat. Med.*, 2, 312; **29**, Laurent, in Fischer's *Antigoulard*, from external application of lead water to a raw surface; **30**, Lindestolpe, de Venenis, effects of sugar of lead, drank in wine; **31**, *Med. Ephem.*, Chemnitz, 1793, **32**, Møgling bei Zeller, *Docimasia Signa Cause et Noxie Vini Lythbargyro Mang.*, Tubniger, p. 24; **33**, Jo. Nardius, *Noct. Genial.*, Ann. 1, Bonon., 1656, 4, No. IV, from internal use of white lead; **34**, Nicander, in *Alexi. Pharm.*; **35**, Orfila, *Toxicologie*; **36**, Plenk, *Toxicologie*, p. 253; **37**, Plinius, *Hist. Nat. Lib.*, 33; **38**, Poterius, *Cent. II*; **39**, Ramazzini, *Diatrise de Artificium Morbis, Batav.*, 1713, ix, p. 54; **40**, Reinhartz, in Schmidt's *Antigoulard*, p. 228; **41**, Rhodius, *Cent. III, Obs.* 10, internal use of sugar of lead; **42**, Richter, *Therapie*; **43**, Schmidt, *Antigoulard*, Wien, 1785, p. 231, mostly from the internal use of white lead, in oil and

brandy, for gonorrhœa, in a healthy man; **44**, Sennert, in Fischer's Antigouard, p. 61; **45**, Stockhausen, Libell. de Lytharg. Fumo Noxio Morbifico, etc., Goslar, 1556, 16, p. 10; **46**, Stoll, Ratio Medendi, Th. VII, p. 309; **47**, Streitt, in Schmidt's Antigouard, p. 186; **48**, Fernelius, de Lue Venereæ, 7; **49**, Thunberg, in den Schwed. Abhandl., 1773; **50**, Tissot, Epist. Med. Pract., p. 222; **51**, Tralles; **52**, Troughin, Ueber die Kolik von Poitou in Kühn's Samml., Leipzig, 1784, effects in a woman, of sugar of lead, in hæmoptysis; **53**, Wall, in Percival on the poison of lead; **54**, Waderoliet, in den Samml. für pr. Ärzte, VIII, p. 634; **55**, Vering, in Fischer's Antigouard, p. 108; **56**, Volpi, in Fischer's Antigouard, p. 77; **57**, Galen, de Med. Sec. Loc. Lib., 7, effects of drinking water from leaden vessels; **58**, Faber, Lanchymag., Lib. IV, p. 7, c. 32; **59**, Vekos-krift for Lækare, T. VI; **60**, Borelli, Obs. Cent., IV, Obs. 32; **61**, Quesnoy, Traité de la Suppuration, Paris, 1779, effects of the external application of sugar of lead; **62**, W. Cullen, Lectures on Mat. Med., p. 192, effects of applying ext. Saturni in erysipelas; **63**, Redlich, Diss. de Colic Saturn., Lipsia, 1800, 4; **64**, Duncan, Med. and Philos. Comment., 1784, p. 202, effects in a man, from frequent bathing a scalded leg with Goulard's lead water; **65**, same, p. 314, effects in several, from drinking water from a leaden cistern; **66**, Bartlett, Med. and Phys. Journ., 1804, p. 403, effects in a typesetter; **67**, Horn, Horn's Archiv., 1807 (Frank's Mag., 2, 210), poisoning of a worker; **68**, Meade, N. E. Med. Journ., 1813, p. 258, poisoning of a family of eight persons, by eating stewed apples that had stood for some time in an earthen crock, the glazing of which was broken; **69**, Kerkhoffs, Journal Univers., 1820 (Frank's Mag., 4, 677), poisoning by extract of lead, taken for gonorrhœa; **70**, Long, N. E. Med. Journ., 1823, p. 455, poisoning of a family of four, by eating sugar that contained white lead (it was used for five weeks); **71**, same, special symptoms, in Mrs. L.; **72**, Baumer, Rust's Mag., 1824 (A. H. Z., 9, 79); **73**, Archives Gen., 1825 (Lancet, 1825), effects in a worker in carbonate of lead; **74**, same, in a brazier; **75**, Pierson, N. E. Med. Journ., 1825, p. 27, effects in a painter; **76**, Boston Med. Intell., 1827, Oct. 16, case of a painter; **77**, same; **78**, same, in a plumber; **79**, Jackson, Am. J. of Med. Sc., 1827, p. 300, case of worker in white lead; **80**, Hohnbaum, Henke's Zeit. f. Staats, etc., 1827, poisoning of a family by food cooked in an imperfectly glazed vessel; **81**, Roots, Lancet, 1828-9, p. 636, case of worker in white lead; **82**, Milroy, Lancet 1828-9, p. 234, a woman aged forty, swallowed three teaspoonfuls of sugar of lead (was suffering from urinary and menstrual disorders); **83**, Helbig, Heraclides, 1, 51, effects of bathing the hands, forehead, and cheeks with Goulard's water; **84**, same, proving with $\frac{1}{100000}$ th grain of Acetate of lead; **85**, Lancette Francaise, 1828, case of worker in lead; **86**, Hamilton, Lancet, 1829-30, p. 356, case of worker in lead; **87**, same, second case; **88**, Bright, Lancet, 1829-30, p. 356, case of painter; **89**, Pittschaft, in Hufeland's Journ., 1830 (Heraclides, 1, 51); **90**, All. Med. Cent. Zeit., 62, 1830, effects of a solution of 1 ounce of sugar of lead; **91**, Barkhausen, Frank's Mag., 3, 613, effects of working in lead; **92**, same, second case; **93**, Chancerel, Journ. de Med., 1831, a woman, aged seventy, took some oil containing 3 ounces of extract of lead; **94**, **95**, **96**, Duplay, Archiv. Gen. de Med., 1834 (Frank's Mag., 3, 304), cases of workers in lead; **97**, Latham, Lancet, 1834, 2, 687, worker in lead; **98**, Lancet, 1834, 2, 795, painter; **99**, Zeppenfeld, Caspar's Woch., 1835 (Frank's Mag., 1, 276), poisoning of a man by 2 ounces of the Acetate; **100**, Thompson, Lancet, 1835, 1, 92, a man took about 1 ounce of the Acetate; **101**, Maass, Hygea,

3, 43, a woman, took 2 ounces of white lead; **102**, Caspar's Woch., 1835 (Frank's Mag., 1, 278), a pregnant woman took 3 ounces of white lead; **103**, Elliotson, Lancet, 1836, 1, 653, painter; **104**, Sander, Caspar's Woch., 1836 (A. H. Z., 9, 12), general effects, in a large number of cases; **105**, **106**, Dugas, Bost. Med. and Surg. Journ., 1837, p. 41 (Southern Med. Journ.), effects in printers; **107**, Cross, Lancet, 1837, 1, 849, a woman, aged thirty-three, took 6 to 8 drachms of Carbonate of lead; **108**, Bost. M. and S. Journ., 1837, p. 239, a man, poisoned by peas, that had stood in an earthen jar with imperfect glazing; **109**, Brockmann, Hanover Annals, 1837 (Frank's Mag., 1, 268), diseases of workers in lead; **110**, Bressler, Casp. Woch., 1837 (Frank's Mag., 1, 277), poisoning of a girl, by lead ointment applied to burns; **111**, Annali Univers. (Lond. Med. Gaz., 1837, 1, 948), effects of swallowing about 6 ounces of shot on two successive days; **112**, Hornung, Frank's Mag., 1, 800 (Aust. J., 1837), effects of 4 ounces of the acetate; **113**, Seymour, Lancet, 1838-9, 30, effects in a painter; **114**, Montault, Journ. de Med. et Chir., 1838, working in an atmosphere of lead; **115**, Taulieb, Gaz. Med. de Paris, 1838, application of lead plaster to an ulcer on the leg; **116**, Bayrenson, Journ. de Chim. Med., 1839, effects of a solution of the Acetate (117 to 226, from Tanquerel des Planches, des Mal. de Plomb., Paris, 1839); **117**, "primary effects of various preparations;" **118**, a workman drank wine containing litharge; **119** to **124**, workers in lead; **125**, effects of daily doses of the Acetate, 3 to 24 grains, for two weeks, for cardiac hypertrophy; **125 a**, same, repeated; **126**, **127**, workers in lead; **128**, effects of injecting into the vagina Gouillard's solution for uterine hæmorrhage at the menopause; **129**, effects of taking the acetate for several days, in a man; **130** to **171**, effects of working in lead; **172**, effects of eating bread baked in an oven heated by wood covered with white lead, Tanquerel, l. c. 2, 267; **173** to **201**, effects on workers in lead; **202**, effects in a young man, from taking the Acetate for seminal emissions; **203** to **226**, effects on workers in lead; **227**, Alderson, Med.-Chir. Rev., 1840, 32, p. 11, a woman, aged twenty-five, worker in a lead factory; **228**, same, in a man, from drinking water from a leaden cistern; **229**, Villeneuve, Journ. des Conn. Med., 1841, a girl took 1 ounce of the Acetate in solution; **230**, Budd, Lond. Med. Gaz., 1841, 1, 411, a painter; **231**, omitted; **232**, Williams, Lond. Med. Gaz., 1841, 1, 478, in a painter; **233**, Schilbach, Fror. Notizen (Lond. and Ed. Med. J., 1841, 1, 220), poisoning of six persons by eating flour that contained lead; **234**, same, one individual; **235**, Buchner, Oest. Med. Woch., 1841 (Hygea, 15, 430), worker in lead; † **236**, Johnson, Prov. Med. and Surg. Journ., 1841, effects in a plumber; **237**, Beer, Oest. Woch., 1841 (Frank's Mag., 1, 779), working in lead; **238**, Wilson, Med.-Chir. Rev., 1842, p. 40, worker in lead; **239**, Ann. d'Hyg. Publique, 1842, six persons poisoned by cider, that had stood in a leaden vessel; **240**, Bryce, Lancet, 1842, 1, 498, a man swallowed 3 ounces of shot, in three days, for a boil; **241** and **242**, Shipman, Am. J. Med. Sc., 1843, p. 89, several persons were poisoned by cider from a tub newly painted; **243**, Otto, Zeit. f. die Ges. Med., 1843, poisoned by snuff containing red lead; **244**, same, in a young physician; **245**, Knapp, Rust's Mag., 1843, lead poisoning; **246**, Snow, Lancet, 1844, 2, 144, a child ate white lead, a piece as large as a marble, death on fourth

† The autopsy showed that the kidneys were less than half their natural size, granulated, dirty white, with numerous blackish-blue pigment-like deposits, and with cysts containing brownish serum.

day; **247**, Schröder, *Med. Zeit. f. Preuss.*, 1844, in a painter; **248**, Schubert, *Casp. Woch.*, 1844, a man poisoned by 5 or 6 drachms of lead; **249**, Otto, *Frank's Mag.*, 3, 887, a girl took 3 drachms of the Acetate (250 to 259, from Morea, *l'Empoisonnement aigu par le Plomb. et ses Composés*, Paris, 1875); **250**, Reynaud and Porral, poisoning by the Acetate; **251** and **252**, workers in lead; **253**, poisoning by the *Extractum Saturni*, from Rabateau, *Toxicologie*; **254**, Boudant, poisoning by 1 ounce of the Acetate; **255**, Pearle, *Lond. Med. Gaz.*, 1845, effects on a man and children of drinking water through leaden pipes; **256**, *Journ. de Pharm.*, 1845, effects of 300 grains of Carbonate of lead, in a man, suffering from heartburn; **257**, Melion, *Prag. Vjs.*, 1845 (*Frank's Mag.*, 3, 612), a girl took 1 ounce of the Acetate; **258**, Rumpelt, *Diss.*, Dresden, 1845 (*Est. Zeit. f. Hom.*, 3, 205), general effects; **259**, Evans, *Lon. Med. Gaz.*, 1846, 1, p. 997, worker in lead; **260**, Göring, *Prov. Med. and Sur. Journ.*, 1846, 1 ounce of the Acetate, in a girl; **261**, same, in another girl, same quantity; **262**, Chowne, *Lancet*, 1847, 1, p. 173, from sleeping in a newly-painted room; **263**, Schonemann, *Journ. de Kinderkrankheiten*, 1849, poisoning of children by water containing lead; **264**, same; **265**, same; **266**, De Mussey, *Dublin Med. Journ.*, 1849, p. 405, effects of water from leaden pipes, in thirteen persons; **267**, Banks, *Lancet*, 1849, 1, 478, poisoning of about five hundred persons by thirty pounds of lead mixed with eighty sacks of flour; **268**, Leboucher, poisoning of a girl by the Acetate, *Journ. d. l. a. Gal.*, 2, 597; **269**, Curie, *Clin. Lectures*, N. W. J. of *Hom.*, 1850, p. 23, worker in lead; **270**, Pluskal, same, poisoning by lead from a charge of shot in the leg (no local trouble); **271**, Murphy, *Br. and F. Med.-Chir. Rev.*, 1852, 2, 258, effects of chewing lead; **272**, Orfila, *Toxicologie*, working in lead; **273**, same; **274**, Thouvenet, from Orfila, effects of about $\frac{1}{2}$ ounce of the acetate, in a woman; **275**, Robertson, *Lancet*, 1851, 1, 202, about twenty girls poisoned by water from a leaden cistern; **276** and **277**, same, individual cases; **278**, Capello, *Bull. Gen. de Therap.*, 1851, a man was accustomed to chew lead-foil; **279**, Challiss, *Trans. Am. Med. Ass.*, 1852, p. 197, effects of water from leaden pipes; **280**, same; **281**, Garrison, same reference, effects of water through leaden pipes; **282**, same, on himself; **283**, Adams, *ibid.*, same cause; **284**, Howe, *ibid.*, same cause; **285** to **289**, same; **290**, Crosby, *ibid.*, same cause; **291** to **295**, same; **296**, Birdwell, *ibid.*, same cause; **297** and **298**, same; **299**, Dalton, same; **300** and **301**, same; **302**, Stimson, same; **303** and **304**, same; **305**, Dr. Francis Black, general effects, Appendix to *Br. J. of Hom.*, 1; **306** to **314**, various authorities cited by Black, l. c., lead poisoning; **315**, Anderson, *Am. J. Med. Sc.*, 1853, worker in lead; **316**, same; **317**, same, effects of water drawn through leaden pipes; **318**, same; **319**, Eichmann, *Gaz. des Hop.*, 1854, poisoning of two children by sucking enamelled cards; **320**, Spengler, *Med. Cent. Zeit.*, 1854, effects of a solution of $\frac{1}{2}$ ounce of the Acetate, in a man; **321**, Addison, *Med. Times and Gaz.*, 1856, p. 643, worker in lead; **322**, Cabot, *Bost. M. and S. J.*, 1856, p. 21, vol. liv, effects of water from lead-lined tanks; **323**, Buck, *Bost. M. and S. J.*, 55, 428, effects of water from leaden pipes; **324**, Hyde Salter, *Lancet*, 1857, 1, 649, effects in a compositor; **325**, Boufile, *L'Union Med.*, Feb. 1857, a boy poisoned by cider containing lead; **326**, Muller, *Zeit. f. V. Oest.*, 1857, 1, 49, thirteen persons poisoned by water from lead pipes; **327**, Sieveking, *Med. Times and Gaz.*, 1857, 1, 163, effects in a plumber; **328**, Jachimowicz, *Zeit. f. V. Oest.*, 1857, 2, 418, woman, worker in lead; **329**, Leudet, *ibid.*, workers in lead; **330**, Leared, *Med. Times and Gaz.*, 1858, 1, 295, effects of 1 ounce of the Acetate; **331**, Kingsbury, *N. Y. J. of Med.*, 1859,

water from leaden pipes; **332**, O'Connor, *Dubl. Med. J.*, 1859, case of a plumber; **333**, same; **334**, *Mattel, Gaz. des Hop.*, 1860, No. 62, poisoning of a married woman; **335**, *Addis, Lancet*, 1860, 1, 33, $\frac{1}{4}$ pint of Goulard's Ext., in a girl, aged twenty-one; **336**, *Chambers, ibid.*, worker in lead; **337**, *Rees, ibid.*, from water containing lead; **338**, *Johnson, ibid.*, effects of scouring pewter pots; **339**, *Schotter, Virchow's Archiv.*, 1859, effects of frequent application of a leaden plate to the hair (covering the head with a sheet of lead at night, so that only a small portion of the face was uncovered); **340**, *Moore, Br. and F. Med.-Chir. Rev.*, 1861, 2, 382, painter; **341**, *Falconer, Br. Med. J.*, 1861, 464, plumber; **342**, *Fouquet, Wien. Med. Woch.*, No. 11, 1861, 1 ounce of Acetate, in a man for spasmodic dysuria; **343**, *Boreland, Bost. M. and S. J.*, 1862, 66, 453, by water from a leaden tank; **344** to **348**, *Ollivier, Archiv. Gen. de Med.*, 1863, workers in lead; **349**, *Reynolds, Lancet*, 1863, 2, 507, a man, with phthisis, took 4 grains of Acetate daily for twenty-seven days; **350**, *Gonzales, El Criterio Med.*, Jan. 1864 (*Am. Hom. Rev.*, 4, 551), from pickles kept in a glazed jar; **351**, *Ward-Cousins, Med. Times and Gaz.*, 1864, 2, 279, from use of lead cosmetics; **352**, *ibid.*, p. 569, worker in lead; **353**, *Wiltshire, Lancet*, 1864, 2, 67, painter; **354**, *Memorabilien*, 1864, p. 245, worker; **355**, *ibid.*, from holding type in his mouth; **356**, *Fleming, Br. Med. J.*, 1865, painter; **357** to **361**, workers in lead, *ibid.*; **362**, *Garrod, Lancet*, 1866, 1, 345, plumber; **363**, *Marmisse, Gaz. des Hop.*, 1866, No. 25, exposed to fumes of lead; **364**, same, poisoning; **365**, *Bowditch, Bost. M. and S. J.*, 1867, 76, 37, a boy, aged eight, effects of drinking water through leaden pipes; **366**, *Wilks, Lancet*, 1867, 1, 9, from water through leaden pipes; **367**, *Clapton, Med. Times and Gaz.*, 1868, 2, 611, worker in lead; **368**, same; **369**, same; **370**, effects of inhaling steam from leaden pipes; **371**, worker; **372**, painter; **373**, same; **374**, *Murchison, Lancet*, 1868, 2, 215, painter; **375**, same; **376**, same, cleaning pewter vessels; **377**, same, painter; **378** to **383**, *Hitzig, Studien ueber Blei-vergift.*, Berlin, 1868, effects in workers in lead; **384**, *Gubler, Med. Times and Gaz.*, 1869, 2, 7, in a plumber; **385**, same, in a painter; **386**, *Woodman, Med. Times and Gaz.*, 1869, 1, 222, in a worker; **387**, same; **388**, same, in a painter; **389**, same; **390**, same, from cider containing lead; **391** to **401**, *Lafont, sur le Tremblement Saturn.*, Paris, 1869, effects on workers in lead; **402**, *Delaine, l'Hahnemannisme*, 1869, poisoning, in a girl; **403**, same, worker in lead; **404**, *Dalton, Bost. M. and S. J.*, 44, 356, in a child, from water drawn through leaden pipes; **405**, *Duroziez, Gaz. des Hop.*, 1869, No. 143, painter; **406** to **417**, same, workers in lead; **418**, *Garrod, Lancet*, 1870, 2, 781, worker in lead; **419**, *Johnson, Br. Med. J.*, 1870, 2, 325, worker (glazed cloth); **420** and **421**, *Bial, Die Chron. Blei-vergiftung Diss.*, Berlin, 1870, workers in lead; **422**, *Taylor, Lancet*, 1870, 1, 428, several cases of poisoning by beer containing red lead; **423**, *Baker, Trans. Obstet. Soc. of London (Br. J. of Hom.*, 29, 709), a woman, in the habit of washing the clothes of her husband who worked in lead; **424**, same, painter's wife; **425**, *Paul, Archives Gen. de Med. (B. J. of Hom.*, 1871, 707), a woman worked cleaning type; **426**, same, histories of eighty-one cases; **427**, *Hoyno, U. S. Med. and Surg. J.*, 1871, p. 171, lead poisoning; **428**, same; **429**, *Lancereaux, Gaz. de Paris*, 1871 (*S. J.*, 154, 146), general effects; **430**, *Nankivell, Hom. World*, 6, 80, from bathing a wound with Goulard's lotion for several days; **431**, *Schneller, S. J.*, 153, 318; **432** and **433**, *Kersch, Memorabilien*, 1872, p. 289, two children, poisoned by holding pieces of lead in the mouth; **434**, *Riemer, Corr. Bl. f. Schw.*, 1872, p. 17, chronic poisoning; **435**, *Hollis, Br. Med.*