



# REFERENCES

Abraham, E.C., Huff, T.A., Cope, W.D., Wilson, J.B., Bransom, E.D. and Huisman, T.H.J. (1978): Determination of the glycosylated hemoglobins (HbA<sub>1c</sub>) with a new microcolumn procedure. Diabetes, 27, 931.

Aleyassine H. (1979):

Low proportions of glycosylated haemoglobin associated with haemoglobin S and haemoglobin C. Clin. Chem. 25/8. 1484-1486.

Allen D.W., Shroeder, W.A. and Baloq, J. (1958):

Observation on chromatographic heterogeneity of normal adult and foetal human haemoglobin; A study of the effects of crystallisation and chromatography on heterogeneity and isoleucine content. J. Amer. Chem. Soc. 80: 1628.

Alter B.P., Potter N.U. (1978):

Classification and etiology of the aplastic anaemias. Clin. Haematol. 7: 431.

Alter B.P. (1980):

Childhood red cell aplasia. Am. J. Ped. Hematol. 2: 121.

Bainton, D.F. and Finch, C.A. (1964):

The diagnosis of iron deficiency anaemia. Am. J. Med., 37-62.

Bank, A. (1978):

The Thalassemia Syndromes. A critical review.  
Blood 50: 3.

Baule, G.M., Onorato, D., Tola, G., Forteleoni G.,  
Meloni T. (1983):

Haemoglobin A, in subjects with G.6.P.D.  
deficiency during and after haemolytic crises  
due to Favism. Acta. Haematol. 69:15-18.

Beccaria, L., Chuimello, G., Gianazza, E. (1978):

Haemoglobin A<sub>1c</sub> separation by isoelectric  
focusing. Acta Haematol. 4: 367-374.

Beeard MEJ (1976):

Fanconi anemia. Congenital disorders of  
erythropoiesis. Ciba Foundation Symposium  
No. 37 (New Series). New York, Elsevier,  
Excerpta Medica, North Holland.

Behrman, R.E., and Vaughan, V.C. (1987):

Nelson Textbook of Pediatrics. Thirteen Edition.  
W.B. Saunders Company.

Benz, E.J., and Forget, B.G. (1971):

Defect in messenger RNA for human haemoglobin  
synthesis in beta thalassemia. J. Clin.  
Invest., 50: 2755.

Benz, E.J., Forget, B.G., Hillman; D.G., Cohen-Salal,  
M. Pritchard, J. and Cavellesco, C. (1978):

Variability in the amount of B globin in  
m RNA in B<sup>0</sup> thalassaemia. Cell 14: 289.

Bernini L., Latte B., Siniscalco M., Piomelli S., Spada U., Adinoeli M., Mollison P.L. (1964): Survival of Cr<sup>51</sup>-Labelled red cells in subjects with thalassaemia trait or G.6.P.D. deficiency or both abnormalities. Br. J. Hoemat. 10: 171-180.

Beulter E. (1954):

Bone marrow and liver in iron deficiency anaemia. J. Lab. Clin. Med., 43, 427.

Beulter E. (1957):

Iron enzyme in iron deficiency. Am. J. Med. Sci., 234, 517.

Beutler E. (1978):

Haemolytic anaemia in Disorders of red Cell Metabolism Pleum, New York.

Bindesbal Mortensen H. (1980):

Formation and behaviour of HbA<sub>1c</sub> in children with Juvenil diabetes. Diabetologia 19, 16th annual meeting of European Association for the study of diabetis, Athens, September 24-27, Abstract No. 272, P. 300.

Bloodworth JMD Jr, Engerman R.L. (1973):

Diabetic microangiopathy in the experimentally-diabetic-dog and its prevention by careful control with insulin. Diabetes. 22: 290.

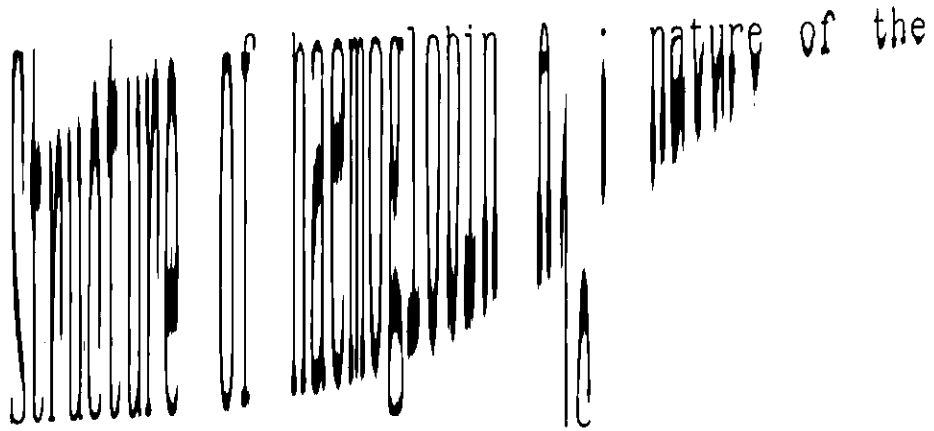
Boordman U.K. and Partridge S.M. (1955):

Separation of neutral protein on ion-exchange resins. Biochemistry 59: 543.

Bolli G., Cartechini G., Compagnucci P., Santeusano F., Benedetti M.M., Calabrese G., Puxeddu A., and Brunetti P. (1980):

Modification of glycosylated hemoglobin concentration during artificial endocrine pancreas treatment of diabetics, *Diabetologia* 18, 125.

Bookchin R.M. and Gallop P.M. (1968):



N-terminal B-chain blocking group. *Biochem. biophys. Res. Comm.* 32(1): 86.

Bothwell T.H. (1966):

The diagnosis of iron deficiency. *New Zeal. Med. J. (Suppl.)*, 65, 880.

Boyed E.M., Thomas D.R. and Horton B.F. (1967):

The quantities of various minor haemoglobin components in old and young human red blood cells. *Clin. Chim. Acta* 16, 333.

Brancoti C., and Baglioni C. (1966):

Homozygous  $\beta$  thalassemia ( $\beta$   $\gamma$ -microcythaemia). *Nature* 212: 262.

Britton C.J.E. (1934):

*N.Z. Med. J.*, 33, 372.

**Bruns, D.E. (1984):**

Clin. Chem. 30 (4) 569-571.

**Bunn, H.F., and Briehl R.W. (1970):**

The interaction of 2,3 diphosphoglycerate with various human haemoglobins. J. Clin. Investig. 49, 1088.

**Bunn H.F., Haney D.M., Gabby K.H. and Gallop P.M.  
(1975):**

Further identification of nature and linkage of carbohydrate in HbA<sub>1c</sub>. Biochem. Biophys. Res. Comm. 67(1): 103.

**Bunn, H.F., Haney D.M., Kanin S. (1976):**

The biosynthesis of human HbA<sub>1c</sub>. J. Clin. Invest. 57: 1652-1659.

**Bunn, H.F., Gabbay K.H. and Gallop P.M. (1978):**

The glycosylation of haemoglobin. Relevance to diabetes mellitus. Science 200:21-27.

**Bunn H.F. and Cahill G.F. (1981):**

Glycosylated haemoglobins: their role in the control and complications of diabetes, Diabetes 30: 613-617.

**Cale R.A., Bunn H.F. and Sohldner J.S. (1977):**

New rapid assay for HbA<sub>1c</sub> and total fast haemoglobin. Diabetes 26. Suppl. 1:392.

Camitta B.M., Thomas E.D., Nathan D.G. (1976):

Severe aplastic anaemia: A prospective study of the effect of early marrow transplantation on acute mortality. Blood. 48:63.

Gapp G.L., Rigas D.A. and Jones R.T. (1970):

Evidence for a new haemoglobin chain (6 chain) Nature 228: 278.

Caspari A.F., and Miedema K. (1987):

Glycosylated haemoglobin in diabetes and renal failure. Lancet (2) - 8041:758.

Castle W.M. (1977):

Statistics in small doses. 2nd edition Churchill Livingstone, New York.

Chanutine A., Runish R.R. (1967):

Archs. Biophys. 121: 96-102.

Childs B., Zinkham W., Browne E.A., Kimbro E.L., Torbert J.V. (1958):

A genetic study of a defect in glutathion metabolism of the erythrocyte. Johns Hopkins Med. J. 102.

Christensen H.B. (1977):

Statistics step by step. Houghton Mifflin company Boston. First edition.

Clegg M.D. and Schroeder W.A. (1959):

Achromatographic study of the minor components of normal adult human hemoglobin including a comparison of hemoglobin from normal and phenyl ketonuric individuals. J. Am. Chem. Soc. 81, 6065.

Concori F., and Delsenno L. (1974):

Induction of B globin synthesis in B thalassaemia of Ferrara. Ann. NY Acad. Sci., 232:54.

Concori F. (1975):

Appearance of B globin synthesis in erythroid cells of Ferra B<sup>0</sup> thalassemia patients following blood transfusion. Nautre 254:256.

Dacie J.V., Lewis S.M. (1977):

Practical Haematology, fifth edition. Churchill, Livingstone.

Dacie J.V. and Lewis S.M. (1984):

Practical Haematology sixth edition. Churchill Livingstone.

Da Costa J., Hess R., England J. and Peth (1980):

Measurement of glycosylated haemoglobin: comparison of clorimetric and ion-exchange resin chromatographic methods. Diabetes 29 (Suppl. 2) No. 273.

Dagg J.H. (1966):

Value of free erythrocyte protoporphyrin in diagnosis of latent iron deficiency (Sideropenia). Brit. J. Haemat., 12, 326.

Davidson and Markson (1955):

Gastric mucosa in iron deficiency anaemia. Lancet 2, 639.

DeBoer M.J., Medema K., Caspari A.F. (1980):

Glycosylated haemoglobin in renal failure. Diabetologia, 18: 437-440.

Defronzo R.A., Andres R., Edgar P., Walker W.G. (1973):

G. Med. 52, 469.

**De Gruchy G.C. (1977):**

Disorders of hemoglobin structure and synthesis.  
Clinical Hematology in Medical practice.  
Black well scientific publication. Oxford,  
London. p. 281.

**DeMachi S., Cechin E. (1986):**

Nephron 42: 177-178.

**Ditzel J., Andersen J. and Daugaard P.N. (1975):**

Oxygen affinity of hemoglobin and red cell  
2,3 diphosphoglycerate in childhood diabetes.  
Acta Paediatrica. Scand. 64, 355.

**Ditzel J. and Stande E. (1975):**

The oxygen transport system of red blood  
cells during diabetic ketoacidosis and recovery.  
diabetologia 11, 255.

**Dix D., Cohen P., Kingsley S. (1979):**

Interference by lactose in glyco haemoglobin  
analysis. Clin. Chem. 25: 192-195 (letter).

**Dixon H.B.F. (1972):**

A reaction of glucose with peptides. Biochem.  
J. 129: 303-208.

**Dods R.F., and Bolmey G. (1979):**

Glycosylated haemoglobin assay and oral glucose  
tolerance test compared for detection of  
diabetes mellitus. Clin. Chem. 25:764-768.

**Dolhofer R., Stadele A., Wieland O.H. (1977):**

Clinical and biochemical studies on the significance and formation of haemoglobin A<sub>1c</sub> and A<sub>1a+1b</sub> in diabetes mellitus. Klin. Wschr. 55: 945-954.

**Dunn P.J., Cole R.A., Soeldner J.S. (1979):**

Temporal relationship of glycosylated haemoglobin concentrations to glucose control in diabetics. Diabetologia 17: 231-220.

**Eddison G.G., Brichl R.W. and Ranney H.M. (1964):**

Oxygen equilibrium of haemoglobin A<sub>2</sub> and haemoglobin Lepore. J. Clin. Invest., 43:2393

**Embury S.H. (1979):**

Organization of the  $\alpha$  globin genes in the Chinese Thalassemia syndromes. J. Clin. Invest., 63: 1307.

**Engle R.L.J., Markey A., Pert J.H. and Woods K.R. (1961):**

Separation of human haemoglobin by starch gel zone electrophoresis. Clin. Chem. Acta 6, 136.

**Fairbank V.F. (1971):**

Is the peripheral blood film reliable for the diagnosis of iron deficiency anaemia? Am. J. Clin. Path. 55, 447.

**Fitzgibbons J.F., Koler R.D., Jones R.T. (1976):**

Red cell age related changes of haemoglobin A<sub>1a+b</sub> and A<sub>1c</sub> in normal and diabetic subjects. J. Clin. Invest. 58: 820.

Flavell R.A., Kooter J.M., Little P.F.R. and Williamson R. (1979):

The structure of human B globin gene in B-Thalassemia. Nucleic Acids Res., 6: 2749.

Flückiger R. and Winterhalter K.H. (1976):

In vitro synthesis of haemoglobin A<sub>1c</sub>. FEBS Lett. 71: 356-360.

Fluckiger R., Harmon W., Meier W., Loo S. and Gabbay K.H. (1981):

Haemoglobin carbamylation. N. Engl. J. Med. 304: 823-827.

Folk E.V., Bennett J.H. Savage P.J. (1979):

Bimodality of glycosylated haemoglobin distribution in Pima Indians. Diabetes; 25: 764-768.

Gabbay K.H., Hasty K., Brestlon J.L. (1977):

Glycosylated haemoglobin and long term blood glucose control. J. Clin. Endocrinol. Metab. 44: 859-864.

Gabbay K.H., Sosenko J.M., Banuehi G.A., Mininsohn M.J. And Fluckiger R. (1979):

Glycosylated hemoglobins: Increased glycosylation of hemoglobin A in diabetic patients. Diabetes 28, 337.

Gerald P.S. and Diamond L.K. (1958):

The diagnosis of thalassemia trait by starch block electrophoresis of the Haemoglobins. Blood 13: 61.

**Glader B., Backer K., Diamond L.K. (1983):**

Elevated erythrocyte adenosine deaminase activity in congenital hypoplastic anaemia. N. Engl. J. Med. 309:1486.

**Goldstein D.E., Petch D.B., England J.D. (1980):**

The effect of acute changes in blood glucose on HbA<sub>1c</sub>. Diabetes 29: 623-628.

**Gonen B., Bechman H., Tanega S.P., and Rubenstein A.H. (1977):**

Correlation between HbA<sub>1c</sub> levels and clinical assessment of diabetic control. Diabetes 26 (Suppl. 1), 368.

**Graf R.J., Halter J.B. and Porte D.J. (1978):**

Glycosylated hemoglobin in normal subjects with maturity onset diabetes. Evidence for a saturable system in man. Diabetes 27, 834.

**Graham J.J., Rgall R.G. and Wise P.H. (1980):**

Glycosylated hemoglobin and relative polycythemia in diabetes mellitus. Diabetologia 18, 205.

**Grass S. (1964):**

Platelet in iron deficiency anaemia. Ped. 34, 315.

Hanney D.N., Bun H.F., Kamen S., Gabbay K. and Gallop P.M. (1975):

Structural and biosynthetic studies on hemoglobin A<sub>1c</sub>. Meeting of Amer. Society of Hematologists. Abst. 151.

Hanney D.N., and Bunn H.F. (1976):

Glycosylation of hemoglobin in vitro: Affinity labeling of hemoglobin by glucose 6 phosphate. Proc. Nat. Acad. Sci. U.S.A. 73, 3534.

Hecht F., Motulsky A.G. and Lemire R.J. (1966):

Predominance of haemoglobin Gower I in early human embryonic development. Science, 152: 91-92.

Hecht F., Jones R.T. and Kolar R.D. (1967):

Newborn infants with Hb Portland I: An indicator of chain deficiency. Ann. Haem. Genet., 31, 215.

Heinrich H. (1968):

Iron deficiency without anemia. Lancet 2, 460.

Hicks E.J. and Hughes B.J. (1975):

Comparison of Electrophoresis on citrate Agar cellulose acetate, or starch for Hemoglobin identification. Clin. Chem. Vol. 21 No. 8, P. 1072-1076.

Hill R.S. (1972):

Iron deficient erythropoiesis. Brit. H. Haemat. 23, 507.

**Holmquist W.R. and Schroeder W.A. (1966):**

A new N-terminal blocking group involving a schiff base in haemoglobin A<sub>1c</sub>. Biochemistry 15: 2489.

**Horton B.F. and Huisman T.H.J. (1965):**

Studies on the heterogeneity of haemoglobin: VII Minor haemoglobin components in haematological disease. Brit. J. Haemat., 11, 296. 304.

**Housman D., Skoultschi A., Forget B.G. and Benz E.J. (1974):**

Use of globin C DNA as a hybridisation probe for globin m RNA. Ann. NY Acad. Sci., 241:280.

**Huisman T.H.J. (1960):**

Properties and inheritance of the new fast hemoglobin type found in umbilical cord blood samples of Negro babies. Clin. Chem. Acta 5, 709.

**Huisman T.H.J. and Meyering C.A. (1960):**

Studies on the heterogeneity of haemoglobin. I. The heterogeneity of different human hemoglobin types carboxymethylcellulose and in Amberlite IRC-50 chromatography: quantitative aspects. Clin. Chem. Acta. 5: 103-123.

**Huisman T.H.J. and Dozy A.M.F. (1962):**

Lab. Clin. Med. 60, 202.

**Huisman T.H.J. and Horton B.F. (1965):**

Studies on heterogenicity of haemoglobin: VIII chromatographic and electrophoretic investigations of various minor haemoglobin fractions present in normal and vitro modified red blood cell haemolysates. J. Chromatogr. 18: 116-125.

**Hunt D.M., Higgo D.R., Old J.M., Clegg J.B., and Weatherall D.J. (1980):**

Molecular defects in thalassemia. Br. J. Haematol. 45: 53.

**Javid J., Pettis P.K., Koenig R.J. (1978):**

Immunologic characterisation and quantitation of haemoglobin A<sub>1c</sub>. Br. J. Haematol. 38:329.

**Johnson M., Dobrea G., Bendezu R. and Wieland R. (1980):**

Temperature dependence of the chromatographic assay of hemoglobin A, and application to clinical evaluation of diabetic control. Diabetologia 29, (Suppl. 2) 40th annual meeting, Abst. No. 250, P. 63 A.

**Jonxis T.H.P. and Huisman T.H.J. (1968):**

A laboratory manual on abnormal haemoglobins. Oxford and Edinburgh Second Edition.

**Jovanovic L. and Peterson C. (1981):**

The clinical utility of glycosylated haemoglobin. 70: 331-338. Am. J. Med.

**Jukes T.H.H. (1966):**

Molecules and Evaluations. New York, London,  
columbia University Press.

**Kacian D.L., Gambino R., Dow L.W., Grossbard E., Natta  
G., Ramirez F., Spiegelman S., Marks P.A.  
and Bank A. (1973):**

Decreased globin messenger RNA in Thalassemia  
detected by molecular hybridisation. Proc.  
Natl. Acad. Sci. U.S.A. 70: 1886.

**Kan Y.W., Forget B.G. and Nathan D.G. (1972):**

Gamma beta Thalassemia: A course of hemolytic  
disease of the new born. N. Engl. J. Med.,  
289: 129.

**Kantor J.A. Turners P.H. and Nienhuis A.W. (1980):**

Beta Thalassemia : Mutations which affect  
processing of the B-globin mRNA precursor.  
Cell 21: 149.

**Kattamis C.A., Kyriazakou M., and Chaidas S. (1969):**

Favim. Clinica and Biochemical data. J. Med. Genet.  
6:34.

**Kenk D.C., Hermanson G.T., Krohn R.I. (1982):** Deter-

mination of glycosylated haemoglobin by affinity  
chromatography: Comparison with colorimetric  
and ion - exchange methods and effects of  
common interferences. Clin. Chem. 28:110:  
2088-2094.

**Koeing R.J. Araujo D.C. and Cerami A. (1976):**

Haemoglobin A<sub>1c</sub> as an indicator of the degree of glucose intolerance in diabetes. Diabetes 25(3): 230.

**Koenig R.J., Peterson C.M., Jones R.L., Saudek C., Lehrman M., Cermai A. (1976):**

Correlation of glucose regulation and haemoglobin A<sub>1c</sub> in diabetes mellitus. N. Engl. J. M. 295: 417.

**Kovarik J., Stummovll H.K., Graf H., Muller M.M. (1981):**

Glucose intolerance and HBA<sub>1c</sub> in Chronic renal insufficiency. Nephron 28: 209.

**Krause J.R., Stole V. and Campbell E. (1982):**

The effect of haemoglobin upon glycosylated haemoglobin determinations. Brief Scientific Report 78 (5): 767-769.

**Kunek H.G. (1958):**

Zone electrophoresis and minor hemoglobin components of normal human blood. Proc. Conference on hemoglobin, National Acad. of Science 157.

**Kunkel H.G. and Wallenius G. (1955):**

New haemoglobin in normal adult blood. Science 122: 228.

**Kunkel H.G. and Bearn A.G. (1957):**

Minor haemoglobin components of normal human blood. Federation Proceedings 16: 760-762.

**Leonard B.I. (1966):**

Gastric acid in iron deficiency anaemia. Lancet 2, 190.

**Lie-Injo, L.E. (1974):**

Homozygous state for Hb constant spring. Blood 43: 251.

**Lind, Y.T., Billiwicz, W.Z. and Brown G.J. (1973):**

Obstet. Gynaecol. Brit. Common W. 80, 1033.

**Lund L., Mourits - Adnerson T., Sorenson P.J. (1987):**

Haemoglobin A<sub>1c</sub> and ureamia. Department of clinical Nephrol and Clin. Chem. Letters to the editor.

**Makarem A. (1974):**

Haemoglobin, haemoglobin derivatives and haemoglobin binding proteins. The clinical chemistry. Principles and technics, 2nd edit.

**Mallia A.K., Hermanson G.T., Krohn Q.T. (1981):**

Preparation and use of boronic acid support for separation and quantitation of glycosylated haemoglobins. Anal. Lett. 14: 649-661.

**Marcia S., and David J.H. (1982):**

Effect of sample instability on glyco-haemoglobin Clin. Chem. 2811: 195-198.

**Marder V.J., Conley C.L. (1959):**

Electrophoresis of Hemoglobins on Agar gel. Johns Hopkins Hosp., 105, 77.

**Maquat, L.E. (1980):**

Processing of human B globin m RNA. Precursor, m RNA is defective in three patients with B thalassemia. Proc. Natl. Acad. Sci. U.S.A., 77: 4287.

**Megahed G.E., Moussa M., Khalafalla A. and Abul Fadl, M.A. (1975):**

The effect of liver disease on serum iron, T.I.B.C. and percentage transferrin saturation in iron deficiency anaemia. J. Egypt. Med. Assoc., 58, 3-4.

**McFarland K.F. (1981):**

Glycosylated haemoglobin: what is its value ? Arch. Intern. Med. 141: 712.

**McKee (1968):**

Experimental iron deficiency in rat. Brit. J. Haemat., 14, 87.

**McMillan D.E., Utterback N.G., and Lapuma J. (1977):**

Reduced erythrocyte deformability in diabetes. J. Am. Diab. Assoc. 26 (Suppl. I), 37th annual meeting, Abst. No. 65, P. 369.

**Mollin, D.L. (1965):**

Sideroblasts and Sideroblastic anaemia. Brit. J. Haemat. 11, 41.

**Naiman (1964):**

G.I.T. effects of iron deficiency anaemia. Pediatric., 33, 83.

Nathan D.M., Ayazano B.J. and Palmer J.C. (1982):

A rapid method for eliminating labile glycosylated haemoglobin. Clin. Chem. 23: 512-513.

Nayak, S.S. and Pattabiraman, T.N. (1981):

A new colorimetric method for the estimation of glycosylated haemoglobin. Clin. Chim. Acta 109: 247-274.

Nelson W.E., Vaughana, V.C. and Makay R.J. (1975):

Textbook of Paediatrics: Diseases of the blood haemoglobin W.B. Saunders Company, Philadelphia, London, Toronto 10th edition, pp. 1106-1107.

Old J.M., Proutfoot N.J., Wood W.G. Longley J.I.,

Clegg J.B. and Weatherall D.J. (1978):

Characterization of B globin mRNA in the B<sup>0</sup> thalassemias. Cell 14: 289.

Orkin S.H., Kolonder R., Michelson A. and Husson R. (1980):

Cloning and direct examination of a structurally abnormal human B<sup>0</sup> thalassemia globin gene. Proc. natl. Acad. Sci. U.S.A. 76: 2886.

Ottolenghi S., Comi P., Giglioni B., Tolstoshev P., Lanyon W.G., Mitchell G.Y., Williamson R., Russo G., Musumeci S., Schiliron G., Tsitstrokis G.A., Charache S., Wood W.G., Clegg J.B. and Weatherall D.J. (1976):

B thalassemia is due to gene deletion. Cell 9:71.

Panzer S., Kronik G., Lechner K., Bettelheim P., Neuman E. Dudczak R. (1982):

Glycosylated haemoglobins: An index of red cell survival. Blood, Vol. 59. No. 2 (June).

Parker K.M., England J.D., Costa J.D. (1981):

Improved colorimetric assay for glycosylated haemoglobin. Clin. Chem. 2715: 669-672.

Paulsen E.P. (1973):

Haemoglobin A<sub>1c</sub> in childhood diabetes. Metabolism 22: 269.

Paulsen E.P., and Koury M. (1976):

Hemoglobin A<sub>1c</sub> levels in insulin dependent and independent diabetes mellitus. Diabetes 25, (suppl. 2): 890.

Pecoraro R.E., Graf R.J., Halter J. (1979):

Comparison of a colorimetric assay for glycosylated haemoglobin with exchange chromatography. Diabetes 28: 1120-1122.

Peterson C.M., Loenig R.J., Jones R.L. (1977):

Correlation of serum triglyceride levels and HA<sub>1c</sub> concentrations in diabetes mellitus. Diabetes, 26: 507-509.

Phelps R.L., Honig G.R., Green D., Metzger B.E., Fredrikksen M.C. and Frinkel N. (1983):

Amer. J. Obstet. Gynaecol. 147, 651.

**Pritchard J., Clegg J.B., Weatherall D.J. and Ongley J. (1974):**

The translation of human messenger RNA in heterologous assay systems. Br. J. Haematol., 28: 141.

**Rachmilewitz E.A., Harari E., and Winterhalter K.H. (1974):**

Separation of  $\alpha$  and  $\beta$  chains of hemoglobin A by acetylphenylhydrazine. Biochim. Biophys. Acta 371: 402.

**Rahbar S. (1968):**

An abnormal hemoglobin in red cells of diabetics. Clin. Chim. Acta 22, 296.

**Rai B.K., Kumar A. and Pattabiraman T.N. (1988):**

Glycated albumen and glycatid aemoglobin levels in normal pregnancy. Biochem. Medi. and Met. Biolo. 39, 5-10.

**Ramsay W.N.M. (1958):**

Adv. Clin. Chem., I:1.

**Reeves J.D., Vichinsky E., Addiego J. Jr. (1983):**

Iron deficiency in health and disease. Adv. Pediatr. 30: 281.

**Roads C.P. (1934):**

Observation on aetiology and treatment of anemia associated with hook worm infestation. Ped. Med. 13, 317.

Robertson P.P., Maclean D.W. (1970):

Iron deficiency without anemia, the M.C.H.C screening. J. Chronic Dis., 23, 191.

Saibene V., Brembilla L., Bertoletti A. (1976):

Chromatographic and colorimetric detection of glycosylated haemoglobins: a comparative analysis of two different methods. Clin. Chem. Acta 93: 199-205.

Saloranta C., Groop L., Ylin K., Teramo K., Tolppanen E.M. and Tallgrans L.G. (1986):

Clinical nephrology vol. 25 No.4.

Santiago J.V., Davis, J.E., Fisher F. (1978):

Haemoglobin A<sub>1c</sub> levels in a diabetes detection program. J. Clin. Endocrinol. Metab. 47: 578-580.

Schellinkens A.P.M., Sander G.T.B., Thornton W. (1981):

Sources of variation in the column chromatographic determination of haemoglobin A<sub>1</sub>: Clin. chem. 27: 94-99.

Schernthaner G., Stummvoll, K.H., Muller M.M. (1979):

Glycosylated haemoglobin in chronic renal failure. Lancet: 774.

Schitt H., Rudloff E., Schmitt P., Roychoudhury R. (19 ):

Clin. Chem. 30: 896:898.

**Schmidt R.M., and Holland S. (1974):**

Standardization in abnormal haemoglobin detection. An evaluation of haemoglobin Electrophoresis kits. Clin. Chem., 20: 591.

**Schmidt R.M., Brosious E.M., and Holland S. (1974):**

Quantitation of foetal haemoglobin by Densitometry. J. Lab. and Clin. Med., 84: 740.

**Schnek A.G. and Schroeder W.A. (1961):**

The relation between the minor components of whole normal human adult hemoglobin as isolated by chromatography and starch block electrophoresis. J. Am. Chem. Soc. 83, 1472.

**Schroeder W.A., Jakway J. and Pawars D. (1973):**

Detection of haemoglobin S and C at birth: A rapid screening procedure by column acromatography. J. Lab. Clin. Med. 82: 303.

**Schreoder W.A. and Nelson N.C. (1975):**

Micro chromatography of haemoglobin: V thin layer chromatography of some haemoglobins on. Cm-Cellulose. J. Chromatog. 115: 527.

**Schwartz H-C., King K.C., Schwartz A.L., Edmunds D. and Schwartz R. (1976):**

Effects of pregnancy on hemoglobin A<sub>1c</sub> in normal gestational diabetic, and diabetic women. Diabetes 25, 1118.

**Seater G.A. and Freeman D.H. (1970):**

Rapid desorption of chromiun (111) from Cation-exchangen with hydrogen peroxide solutions. Anal. Chem. 42: 1666.

**Shapiro R., Mc Manus M.J., Zalut C. and Bunn H.F. (1980):**

Sites of non enzymatic glycosylatin of haemoglobin A.J. Biol. Chem. 225: 3120-3127.

**Simon M. and Eissler J. (1980):**

Critical factors in the chromatographic measurement of glycohaemoglobin. Diabetes 29: 467-474.

**Singer K., Chernoff A.I., and Singer L. (1951):**

Studies on abnormal haemoglobins. Their demonstration in sickle cell anemia, and other Haematological disorders by means of alkali denaturation. Blood 6: 413.

**Spicer K.M., Allen R.C. and Buse M.G. (1978):**

A simplified assay of haemoglobin A<sub>1c</sub> in diabetic patients by use of isoelectric focusing and quantitative microdinsometry. Diabetes 27: 384-388.

**Spicer K.M., Allen R.C., Hallet D., Buse M.G. (1979):**

Synthesis of haemoglobin A<sub>1c</sub> and related minor haemoglobins by erythrocytes. In vivo study of regulation. J. Clin. Invert. 64:40.

**Spiro R.G. (1976):**

Search for biochemical basis of diabetic microangiopathy. Diabetologia 12:1.

**Spitzer R.H. (1976):**

Fundamentals of clinical chemistry (Ed. by N.W. Tietz). W.B. Saunders Copmpany. Phildelfia. London, Toronto, P: 157.

**Srivastava S.K. and Beutler E. (1970):**

glutathione metabolism of the erythrocyte.  
The enzymatic cleavage of glutathione-haemoglobin preparations by glutathione reductase.  
Biochem. J. 119:353.

**Stargent D.T., Achtenberg J. and Davis J.E. (1980):**

Increased hemoglobin A<sub>1c</sub> in insulin dependent diabetics during puberty. Diabetes 29. (Suppl.)  
40th annual meeting, Abst. No. 177, p. 45A.

**Subramaniam C.V., Radhakrishnamurthy, B. and Berenson G.S. (1980):**

Photometric determination of glycosylation of haemoglobin in diabetes mellitus. Clin. chem. 26: 1683-1687.

**Svendsen P.A., Christiansen J.S., Welinder B. and Soegard U. (1982):**

Diabetologica 23: 403-405. Haemoglobin F and the assessment of glucose control by chromatographically determined HbA<sub>1c</sub> levels. Scand. J. Clin. Lab. Invest. 42: 535-537.

**Tegos C. and Beutler E. (1980):**

Glycosylated haemoglobin A<sub>2</sub> components. Blood. 56(3): 571.

**Temperly I.J. and Sharp A.A. (1962):**

J. Clin. path., 15, 346.

**Trinder P. (1956):**

J. Clin. Path. 9: 170.

**Trivelli L.A., Ranney H.M. and Lai H.T. (1971):**

Hemoglobin components in patients with diabetes mellites.. N. Engl. J. Med. 234: 353-357.

**Tswett M.S. (1906):**

Ber. Deut. Bot. Ges. 24: 316. English translation by Strain H.A. and Sherma (1967): J. Chem. Educ. 44: 235.

**Vaerley H., Gowenlock A.H. and Bell M. (1980):**

Practical clinical Biochemistry 5th edition, Vol. II William Heineman Medical Books Ltd, London.

**Van der Ploeg L.H.T., Koningo A., Oort M., Roos D., Bernine L., and Flavell R.A. (1980):**

γB thalassemia: Studies showing that deletion of the γ and δ gene influences B globin gene expression in man. Nature 283: 637.

**Weatherall D.J., Clegg J.B., Na-Nakorn S., and Wasi P. (1969):**

The pattern of disordered haemoglobin synthesis in homozygous and heterozygous B thalassemia. Br. J. Haematol., 16: 251.

**Weatherall D.J., Clegg T.B. and Wong H.B. (1970):**  
The haemoglobin constitution of infants with  
the haemoglobin Bart's hydrops foetalis syndrome.  
Brit. J. Haemat., 18: 357.

**Weatherall D.J. and Hardisty R.M. (1974):**  
Foetal haemoglobin and its disorders. Edition  
Publisher pp. 561-568.

**Weatherall D.J. and Clegg J.B. (1981):**  
The thalassemia syndromes. Third Edition.  
Blackwell Scientific Publication. Oxford.

**Weipple G. (1973):**  
Blood 27, 376.

**Whitbey and Britton (1969):**  
Disorders of the blood.

**Williams W.J., Beutler E., Erslev A.J., and Lichtman  
M.A. (1983):**  
Hematology 3rd ed. New York, McGraw-  
Hill Book Co.

**Wintrobe M., Lee R., Boggs D., Bithell T., Foerster  
J., Athens J.W., and Leukens J.N. (1974):**  
Clinical hematology 7th edition. Lea and  
Febiger Philadelphia.

**Wood W.G., Clegg J.B., and Weatherall D.J. (1979):**  
Hereditary persistence of fetal haemoglobin  
(HPFH) and  $\gamma$ B thalassemia. Br. J. Haematol.,  
43: 509.

Worth R., Linda A., Ashworth (1980):

Column assay of haemoglobin A<sub>1c</sub> critical effect temperature. Clinica chimica Acta 104: 401- 403.

Worth R., Potter J.M., Drury J., Fraser R.B. and Cullen D.R. (1985):

Diabetologia 28, 76.

Yatscoff, R.W. and Braidwood, J.L. (1982):

Comparison of column chromatographic, colorimetric and electrophoretic methods for determination of glycosylated haemoglobin. Clin. Biochem. Progress.

Yatscoff R.W. Tevaarwerk J.M., Clarson C.L. (1983):

Interference of fetal haemoglobin and labile glycosylated haemoglobin with measurements of glycosylated haemoglobin. Clin. Chem. 29(3): 543-545.

Ylinen K., Hekali R., and Teramo K.J. (1981):

Obstetric Gynaecol. 1, 223.

Youssef M.S. (1979):

Study of the effect of different anticoagulants on the red blood cell indices. Coulter Counter Model S, P. 27. M.Sc. Thesis (Cairo University).