

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

REFERENCES

Albin, J. and Rifkin, H (1982):

Etiologies of diabetes mellitus.

Med. Clin. North. Am. 66:1209.

Babior B.M., and Crowley, C.A. (1983):

A recent review on disorders of oxygen

dependent killing by neutrophils,

including DGD, MPO deficiency and others.

In the metabolic basis of inherited diseases. Ch. 16, P. 1956-1985. 5th ed. by McGraw-Hill Book Company. New York.

Bagdade, John, V., Mary Stewart and Elwanda Walters (1978):

Impaired granulocyte adherence. A reversible defect in Host defense in patients with poorly controlled diabetes.

Diabetes 27:677-81, June.

Bagdade, J.D., Nielson, K.L. and Bulger, R. (1972):

Reversible abnormalities in phagocytic function in poorly controlled diabetic patients. Amer. J. Med. Sci. 263: 441-456.

Bagdade, J.D., J. , Richard, R., Rott and Roger, Bulger, J. (1974):

Impaired leukocyte function in patients with poorly controlled diabetes.

Diabetes, Vol. 23, No. 1.

Bainton, D.F., and Farquhar, M.G. (1968):

Difference in enzyme content of azurophil
and specific granules of PMN leucocytes.

J. cell Biol., 39:286.

Barbosa, J., King, R., Noreen, H., and Younis, E.J. (1977):

The histocompatibility (HLA) system in
juvenile, insulin-dependent diabetic.

J. Clin. Invest. 60:989

Barbosa, J., King, R., Coetz, F.C.H., and Younis, E.J.

(1978):

HLA in maturity-onset-type of hypergly-
caemia in the young.

Arch. Intern. Med. 138:90.

Barbosa, J., Chavers, B., Dunsworth, T. and Michael, A.

Islet cell antibodies and histocompati-
bility antigens (HLA) in insulin-dependent
diabetics

Barrett, J.T. (1978):

Phagocytosis.

In: Text Book of Immunology, An introduction
to immunochemistry and immunobiology.

Third edition, (ed.) Barrett, J.T. The C.V.
Mosby company. Saint Louis, P. 261.

Bellanti, J.A. (1978):

General immunobiology: Diagnostic application
of immunology In: Immunology II. (ed.)

Bellanti, J.A., W.B.S. Saunders company, Philadelphia,
London, Toronto, P. 29. 758.

Belokinitiskii, D.V., Mamaeva, G.G., Gukovskaia, N.N.,

Bokaneva, I.A., Rogunova, I.A. (1984):

Indicator of phagocytic activity of neutrophils in patient with diabetes before and after oral treatment.

Probl-Endokrinol (Mosk) Nov. Dec. 1984.

30 (6) P. 18-22.

Boogaerts, M.A., Nelissen, V., Roelant, C. and Goossens, W.

(1983):

Blood neutrophil function in primary myelodysplastic syndromes. A through study of neutrophil dysfunction in myelodysplasia.

Br. J. Haematol. 55:217.

Bybee, J.D. and Rogers, D.E. (1964):

The phagocytic activity of polymorphonuclear leukocytes obtained from patients with diabetes mellitus.

J. Lab. Clinic. Med. 64: 1-13.

Conn, J.W. and Fajans, S.S. (1961):

The prediabetic state. A concept of dynamic resistance to a genetic diabetogenic influence.

Amer. J. Med. 31:839.

Craighead, J.E. (1978):

Current views on the etiology of insulin dependent diabetes mellitus.

New Engl. J. Med. 299:1439.

Crome, L., Erdohazi, M. and Rivers, R.P.A. (1967):

Fulminating diabetes with lymphocytic
thyroiditis. Arch. Dis. Child 42:677.

Crosby, B., Allison, F. (1966):

Phagocytic and bactericidal capacity of
polymorphonuclear leukocytes recovered
from venous blood of human beings
Proc. Soc. Exp. Biol. Med.. P.123:660-4.

Cudworth, A.G. and Woodrow, J.C. (1975):

Evidence for HLA linked genes in juvenile
diabetes mellitus.
Br. Med. J. 3:133.

Cudworth, A.G. and Woodrow, J.C. (1976):

Genetic susceptibility in diabetes
mellitus:
Analysis of the HLA association.
Br. Med. J. 2: 846.

Dana, N., Todd, R.F., Pitt, J., Springer, T.A. and
Arnaout, M.A. (1984):

Deficiency of a surface membrane
glycoprotein (Mol) in man.
An important study of this newly recogn-
ized disease.
J. Clin. Invest. 73:153.

Davidson, N.J., Sowden, J.M., Fletcher, J. (1984):

Defective phagocytosis in insulin contro-
led diabetics: evidence for a reaction
between glucose and opsonising protein.
J. Clin. Path. July 37 (7), 783-86.

Donabedian, H. and Gallin, J.I. (1983):

The hyperimmunoglobuline recurrent
infection (Job's) syndrome.
A detailed clinical study of Job's syndrome.
Medicine 62:195.

Drash, A.L. (1979):

The etiology of diabetes mellitus.
N. Engl. J. Med. 300:1211.

Fajans, S.S., Cloutier, M.C. and Crowther, R.L. (1978)

Clinical and etiological heterogeneity
of idiopathic diabetes mellitus.
Diabetes 27: 112.

Flier, J.S., Kahn, C.R. and Bar, R.S. (1975):

Antibodies that impair insulin
receptor
binding in an unusual diabetic syndrome
with severe insulin resistance.
Science, 190:63.

Gallin, J.I., Wright, D.G., Malech, H.L. and David, J.M.
(1980):

Disorders of phagocyte chemotaxis.
A brief survey of conditions associated
with defective neutrophil chemotaxis and
motility.
Ann. Intern. Med. 92:520.

Galenok, V.A., Bondar, I.A. (1985):

Characteristic of the functional activity
of leukocytes in diabetes.

Ter. - Arkh. 57 (12) 5-16.

Gamble, D.R., Kinsley, M.L. and Fitz-Gerald, M.G. (1969):

Viral antibodies in diabetes mellitus.

Br. Med. J. 3:627.

Ganz, K. and Kozak, G.P. (1974):

Diabetes mellitus and primary hypothyroidism.

Arch. Inter. Med. 134:430.

Genuth, S.M. (1982):

Classification and diagnosis of diabetes mellitus.

Med. Clin. North. Am. 66: 1192.

Goldman, J.M. and Catovsky, D. (1972):

The function of phagocytic leukocytes
in leukemia.

A description of the functional abnormalities in neutrophils from patients with acute and chronic myelogenous leukemia.

Br. J. Haematol. 23:223.

Goldstein, S., Littlefield, J. and Soeldner, J. (1969):

Diabetes mellitus and aging.

Proc. Nat. Acad. Sci. USA 64:115.

Irvin, W.J., Clark, B.F. and Scarth, L., et al, (1970):
Thyroid and gastric autoimmunity in
patients with diabetes mellitus.
Lancet 2:163.

Irvin, W.J. (1977):
Classification of idiopathic diabetes.
Lancet 2:638.

Irvin, W.J., McCallum, C.J., and Gray, R.S. (1977):
Pancreatic islet cell antibodies in diabetes mellitus correlated with the duration and type of diabetes, Coexistent autoimmune disease and HLA type.
Diabetes 26:138.

Job, D., Eschwege, E., Guyot, Argenton, C. Aubry, J.P. and Tchobroutsky, G. (1976):
Effect of multiple daily insulin injections on the course of diabetic neuropathy Diabetes 25:493-69.

Johansen, K., Soeldner, J.S., and Gleason, R.E. (1974):
Insulin, growth hormone, and glucagon in prediabetes mellitus.
Metabolism 23:1185.

Kahn, C.R., Flier, J.S., and Bar, R.S. (1976):
The syndromes of insulin resistance and acanthosis nigricans.
N. Engl. J. Med. 294:739.

Kahn, C.R. (1982):

Autoimmunity and etiology of insulin
dependent diabetes mellitus.

Nature 299:13.

Kissane, J.M. and Anderson, W.A.D. (1985):

Inflammation and healing.

In Anderson's Pathology Vol. 1, ch.2, P. 34
35, 8th ed. by the C.V. Mosby Company.

ST. Louis. Toronto. Princeton.

Klebanoff, S.J. (1975):

Antimicrobial mechanisms in leukocytes
Semin. Hematol. 12:117-42.

Kobberling, J. (1971):

Studies on the genetic heterogeneity of
diabetes mellitus.

Diabetologia 7:46.

Kolb, H., Schernthaner, G. and Gries, F.A. (1983):

Immunological aspects of type 1 (insulin
dependent).

Diabetes: pathogenesis and therapy.

Diabetologia 24:394.

Lendrum, R. Walker, C. and Cudworth, A.G. (1976):

Islet cell antibodies in diabetes mellitus.

Lancet 2:1273.

- Lehmann, A. and Baekkeskov, S. (1981):
Islet cell antibodies-Theoretical and
practical implications.
Diabetologia 21:431.
- Medalie, J.H., Papier, C. and Herman, J.B. (1974):
Diabetes mellitus among 10.000 adult
men I. Five year-incidence and associated
variable.
Isr. J. Med. Sci. 10:681.
- Menser, M.A., Forrest, J.M., and Bransby, R.D. (1978):
Rubella infection and diabetes mellitus.
Lancet 1:57.
- Miescher, R.A., and Mueller, E.H. (1969):
Idiopathic hypoparathyroidism: a probable
autoimmune disease.
In *Text-book of Immunology* vo. 2, P. 47,
by Grune and Stratton. New York.
- Miller, M.E., and Baker, L. (1972):
Leukocyte functions in Juvenile diabetes
mellitus Humoral and cellular aspects.
J. Pediatr. 81:979-82.
- Mowat, A.G. and Baum, J. (1971):
Chemotaxis of polymorphonuclear leukocytes
from patients with diabetes mellitus.
N. Engl. J. Med. 284:621-627.

Najjar, V.A. (1975):

Defective phagocytosis due to deficiencies involving the tetrapeptide tuftsin.

J. Pediat., 89:1121.

Nelson, P.G. and Pyke, D.A. (1975):

Histocompatibility antigens in diabetic identical twins.

Lancet 2:193.

Nerup, J. Anderson, O.O. & Christy, M. et al., (1976):

HLA autoimmunity, virus and the pathogenesis of juvenile diabetes mellitus.

Acta Endocrinol. 205:157.

O'Donnel, M.J., Jabs, A.D., Horita, M. et al, (1979):

The application of antibody coated polyacrylamide gel (Immunobead) in the N.B.T. test for the detection of ingestion and killing functions of human neutrophils
Immunol. Commun. 8:539.

O'Flaherty, J.T. and Ward, P.A. (1979):

Chemotactic factors and the neutrophil.
Semin. Haematol., 16(2):163.

Olefsky, J.M. and Reaven, G (1976):

Insulin binding to monocytes and total mononuclear leukocytes from normal and diabetic patients.

J.Clin. Endocrinol. Metab. 43:226.

O'Sullivan, J.B. and Mahan, C.M. (1968):

Prospective study of 352 young patients
with chemical diabetes.

N.Engl. J.Med, 278,

Perlman, L.V. (1961):

Familial incidence of diabetes in
hyperthyroidism.

Ann. Intern. Med. 55: 796.

Platz, P., Jakobsen, B.K. & Morling, N. et al., (1981):

HLA-D and DR antigens in genetic analysis
of insulin-dependent diabetes mellitus.

Diabetologia 21:108.

Podolsky, S. and Ferguston, B.D. (1970):

Fatal systemic Candidiasis following
treatment of Addisonian crisis in a
juvenile diabetic.

Diabetes 19:438.

Pujol-Borrell, R. , Khoury, E.L. and Bottazzo, G.F. (1982):

Islet cell surface antibodies in type 1
diabetes mellitus: Use of human fetal
pancreas cultures as substrate.

Diabetologia 22:89.

Rodman, H.M., Olszewski, M., Hittle, V. and Bulter, T.

(1977):

Diabetes, 26 (Suppl 1): 369.

- Rowe, D.W., Starman, B.J., Fujimoto, W.Y. and Williams, R.H.
(1977):
Abnormalities in proliferation and protein
synthesis in skin fibroblast cultures
from patients with diabetes mellitus.
Diabetes 26:284.
- Sbarra, A.J.; Selvara, R.J.; Paul, P.P.; Poskitt, P.K.F.;
Zgliczynski, J.M.; Mitchel, G.W. Jr. and
Louis, F. (1976):
Biochemical, functional, and Structural
aspects of phagocytosis.
International Review of Experimental
Pathology, Vol. 16.
- Sliva, J. and Fekety, F.R. Jr. (1976):
Acute complication of the Diabetic state.
In FaFajans, S.S. ed. Diabetes Mellitus.
Washington D.C.U.S.
Government Printing office. 154-170.
- Stormorken, H. (1969):
The release reaction of secretion.
Scand. J. Haematol., 9:1.
- Stossel, T.P. (1975):
Phagocytosis: Recognition and Ingestion.
Semin. Haematol., 12:83.
- Sultz, H.A., Hart, B.A. and Zielezny, M. (1975):
Is mumps virus an etiologic factor in
juvenile diabetes mellitus.
J. Pediatr. 86:654.

- Tan, J.S., Anderson, J.L., Watranakunakorn, C. and Phair, J.P. (1975):
Neutrophile dysfunction in diabetes Mellitus.
J. Lab. Clin. Med. 85 : 26-33.
- Tattersall, R.B. and Pyke, D.A. (1972):
Diabetes in identical twins.
Lancet 2:1120.
- Toniolo, A., Onodera, T. and Tordan, G., et al., (1982):
Virus induced diabetes mellitus.
Diabetes 31:496.
- Van Furth, R. (1970):
Origin and Kinetics of monocytes and macrophages.
Semin. Haematol., 7:125.
- Vanoss, C.V. (1971):
Influence of glucose levels on the invitro phagocytosis of bacteria by human neutrophils.
Infect. Immuno. 4:51-59.
- Weirusz-Wysocka, B. and Wysocki, H. (1985):
Phagocytosis, bactericidal capacity and superoxide anion (O₂⁻) production by PMN from patient with diabetes mellitus.
Folia-Haematol. (leipz) 112 (5) 658-668.

Wilkinson, P.C. (1977):

Non specific cells: Granulocytes, Mononuclear phagocytes and Mast cells.

In: Immunology in Medicine: A comprehensive guide to clinical immunology. edited by:

E.J. Holborow and W.G. Reeves. Academic Press, London, Grune and Stratton.

New York, P.231.

Winkelstein, J.A. (1973):

Opsonins, their function, identity and clinical significance.

J. Pediat., 82:747.

Wolff, S.M., Dale, D.C.; Clak, R.A. and Kimball, H.R. (1972):

The Chediak-Higashi syndrome.

A discussion of Chediak-Higashi disease emphasizing the abnormalities in neutrophil function seen in this condition. Ann. Intern. Med. 76:293.

Wyngaarden, J.B. and Smith, L.A. (1985):

Function of neutrophils and mononuclear phagocytes.

Disorders of neutrophil function.

in CECIL Textbook of Medicine Ch. 148 and 149, P. 942-953, 17th ed. by Saunders, W. Company. Philadelphia, London and Tokyo.

ARABIC

SUMMARY

الملخص العربى

عنوان البحث : دراسة عن وظائف كرات الدم البيضاء الملتهممة
متعددة النوايا فى مرض البول السكرى المصحوب
بعدوى المجارى البولية .

الغرض من البحث : دراسة قدرة الكرات البيضاء متعددة النوايا على
التهام الاجسام الغريبة فى مرضى السكر المنضبط
وغير المنضبط المصحوب وغير المصحوب بعدوى
المجارى البولية مقارنة بالاشخاص الطبيعىين
والاشخاص غير المصابين بمرض السكر ويعانئون
من عدوى المجارى البولية .

طريقة البحث : اجرى البحث على ٥٠ شخصا مقسمين الى :-
١٥ مريضا بالسكر المنضبط .
١٥ مريضا بالسكر غير المنضبط
١٠ حالات اصابة بعدوى المجارى البولية
١٠ حالات سلبية .

وقد تمت دراسة* الوظائف البلعية والقدره على بلع
الاجسام الغريبة والميكروبات وكذلك تأثير
مرض السكر على العدد الجزئى لكرات الدم البيضاء
الملتهممة .

النتائج والاستنتاجات لقد وجد ان هناك خلا واضحا فى وظائف الكرات
البيضاء الملتهممة بالنسبة للمرض المضابيىين
بمرض البول السكرى ويزيد هذا الخلل بانعدام
انضباط نسبة السكر فى الدم وكذلك بوجسود
المضاعفات الاخرى مثل عدوى المجارى البولية
ويقل هذا الخلل بانضباط نسبة السكر فى الدم

كذلك وجد ان قدرة الخلايا الملتزمة تزداد فى حالة عدوى المجارى البولية فى الاشخاص الطبيعىين نظرا لعدم وجود خلل فى الجهاز المناعى ومن هذا يتضح تاثير الجهاز المناعى فى الجسم بارتفاع نسبة السكر فى الدم .

ولهذا فانه من الواجب عند علاج حالات التهاب

المجارى البولية عند مرضى السكر التحكم فى نسبة السكر بالدم حتى يقوم الجهاز المناعى فى الجسم بأداء وظائفه بالمساعدة فى القضاء على العدوى بالجسم .

١٨٧
دراسة عن كرات الدم البيضاء الملتصبة



متعددة النوايا في مرض البول

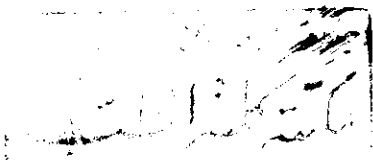
السكري البسيط بعطوي الهجاري البولية

دراسة

مقدمة توطئة للحصول على درجة الماجستير
في العلوم الطبية الأساسية (ميكرو بيولوجي)

مقدمة من

الطبيب ياسر حاتم بدوي



تحت إشراف

الأستاذ الدكتور

عماد كامل فالح

أستاذ ورئيس قسم البكتريولوجي

كلية طب أسيوط



الأستاذ الدكتور

محمد وجدوي محمد عطيه

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كلية طب بنها

الأستاذ الدكتور

محمد أحمد مصطفى

أستاذ ورئيس قسم الباطن العام

عميد كلية طب بنها

**دراسه عن كرات الدم البيضاء الملتصقه
متعددة النوايا في مرضى البول
السكري المصنوب بعطوي المجاري البولية**

دراسه

مقدمة توطئه للحصول على درجة الماجستير
في اللولم اللبية الأساسية (ميكرو بيولوجيا)

مقدمة من

الطبيب ياسر حافظ بدوي

تحت إشراف

الأستاذ الدكتور	الأستاذ الدكتور
عماد كامل نافع	محمد وجددي محمد عطيه
أستاذ ورئيس قسم البكتريولوجي	أستاذ ورئيس قسم البكتريولوجي
كلية طب أسيوط	كلية طب بنها

الأستاذ الدكتور
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عميد كلية طب بنها