

**CITELLUS CITELLUS GELENGEUS CINSİ YABANI
KEMİRİCİLERDEN İZOLE EDİLEN
L. DJASIMAN SEROTİPİ ***

Prof. Dr. Şir Ahmet FAZLI **

Leptospiraların rezervuarlığını değişik cins ve türde yabancı kemiricilerin yaptığını araştırmacılar muhtelif zamanlarda bildirmişlerdir (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,13, 14, 15, 16, 17, 18, 19, 20, 21).

Citellus cinsi yabancı kemiricilerde literatürü tarayabildiğimiz kadarıyla leptospira araştırmalarına rastlayamadık. Önemli bir zoonoz ve tabii odağı olan leptospirozda citellusların rolünün olabileceğini araştırmak maksadı ile Türkiye'nin değişik yerlerinden (Ankara, Nevşehir, Konya) canlı ve ölü olarak 174 Citellus citellus gelengeus yakalanarak leptospiroz bakımından araştırmaya tabi tutulmuştur.

Bulgu ve Sonuç

Muayene edilen 174 citellusun birinden leptospira suşu izole edilmiştir. İzole edilen bu suş tiplendirilmek üzere WHO/FAO Leptospira laboratuvarı şefi Prof. Dr. Babudieri'ye gönderilmiştir. Prof. Babudieri gönderilen bu suşu «CROSS - ABSORPTION TESTİ» ile L. djasiman olarak tiplendirilmiştir. Alınan cevabın örneği ilişikte-dir.

Prof. Babudieri bulgunun enteresan ve izole edilen leptospiranın Akdeniz bölgesi için yeni bir serotip olduğu bildirilmektedir (Özel mektup aşağıdadır):

Dear Dr. Fayzi,

Only now, after having performed also the cross absorption tests in both direction, I am able to confirm that the strain L. C. 235, isolated by you fom *Citellus* and sent to me for identification, belongs to the serotype *djasiman*. This finding is very interesting

* Bu çalışma Ankara Tıp Fakültesi Mikrobiyoloji Kürsüsünde yapılmıştır.

** Ankara Tıp Fakültesi fahri doçenti ve Kabul Üniversitesi öğretim üyesi
KABİL/AFGANİSTAN

because this serotype seems to me to be new for the Mediterranean area and, in my opinion, it is worth to be reported in a scientific periodical.

Sincerely yours

My best regards

B. Babudieri M.D.
 Istituto Superiore di Sanita 10th June 1970

ISOLATION OF LEPTOSPIRA DJASIMAN SEROTYPE FROM CITELLUSES

Prof. Dr. Shir Ahmet FAZLY **

Between 1968 - 1970, 174 *Citellus citellus gelingus* were captured from different parts of Turkey such as Ankara and Karapınar (Konya) and examined for leptospirosis.

Trapped animals both living and dead were transported to Ankara in special cages. Living animals were killed and the blood of these animals were collected for micro agglutination test.

Cultures were made from heart blood and kidneys of the inanimate and killed animals in Korthoff-Medium contained 10 % inactivated (heated at 56°C for 30 minutes) rabbit sera. Korthoff-Medium incubated at 28°C for 30 days and examined by dark field microscopy every 3 - 5 days.

A leptospira strain isolated from a citellus which was trapped around Ankara (325 prot. no). The isolated strain was sent to Rome WHO/FAO Leptospirosis reference laboratory for typing. The reply of Prof. Dr. Babudieri is in addition. Prof. Babudieri by cross-absorption test identified the isolated strain as a leptospira djasiman serotype. According to Prof. Babudieri this serotype is new for the Mediterranean area. On the other hand we could not find any observation of leptospirosis in this kind of rodent, which were available. Therefore our observation is interesting in this field.

KAYNAKLAR

- 1 — Abdulla, P. K. et al.: Investigation of Leptospirosis in Wild life animal in Antario. *Can. J. Pub. HLTH.* 53/11, 445 - 451, 1962.
- 2 — Babudieri et al.: The leptospira of the Italian Hedge-Hog. *Exc. Med. Microb.* 1964, 17/11, (1966) *Path. Et. Microb.* 27/1 103 - 116, 1964.

* Old member of institute of Microbiology Faculty of Med. University of Ankara/Turkey

Present member of Kabul University KABUL/AFGANİSTAN

- 3 — Brownlow, W. J. at al.: Leptospirosis in Animals of upper Egypt. Am. Jour. Trop. Med. HYG 13/2 211 - 218, 1946.
- 4 — Cahill K. M. : Weil's Disease in New York City; N. Y. St. J. Med. 63/8 1207 -1209, 1963.
- 5 — Chermukha Yu. G. : Leptospirosis lara (L. australis group) in The georgian Rep. (Russian); Exc. Med. Microb. 1965, 18/11 1313, (Z. H. Mikrob. Epid. İmmunobiol, 5 77 - 81, 1964.
- 6 — Clark L. G. at al. : Leptospira ballum infection in a sherew, Blaria. bronicauda brevicanda, Am. J. Trop. Med. Hyg. 11/5, 664 - 665, 1962.
- 7 — Duchassin M. at al. : L. icterohaemorrhagiae incidence in Rat at Cyenne. Same. Experimental aspects of Leptospirosis in French Gviana; Bull. Soc. Path. Exot. 58/2 170 -177, 1966.
- 8 — Fazlı, Ş. A. : Türkiye'de Leptospiroz, Mikrob. Derg. 18/3 - 4 23, 1965.
- 9 — Fazlı Ş. A. : Orta ve Güney Doğu Anadolu yabancı kemirici favonasında Leptospira Araştırılması, Mikrob. Bülteni 4/3 111 - 136, 1970.
- 10 — Fazlı, Ş. A. : Türkiye'de İnsan, Evcil hayvan ve yabancı kemirici serumlarında Leptospira yönünden serolojik incelemeler. Tür. Hij. Tec. Biyol. Derg. 30/2, 155 -184, 1970
- 11 — Gorman, G. W. at al. : Leptospirosis in wild Animals from South -Western Georgia. Am. J. Tcop. Med. 11/4, 518 -524, 1960
- 12 — Gorshanova E. N. : Syisthrogic Rodents as carriers of L. tarassoni. : Exc. Med. Microb. 1963, 16/2 -119 (Z. H. Mikrob. Epid. İmmunobiol 4 34 +39), 1962.
- 13 — Özsan, K. : Epidemiology. of plague in Turkey VIII. İnter. Cong. on Trop Med. and Malar. 7 -15, Septem 562, Tehran - İnan 1968.
- 14 — Parnas, J. : Koslak, and Krukowska, M. : Leptospira bataviae viae in Eigerren Unterschungen. ZBL. Bakt. Orog. 108/3, 379 -386, 1960.
- 15 — Parnas, J. at al : Epidemiological control of Endemic Leptospirosis; Exc. Med. Microb 19/2 286, 1966. (Z. Hyg. Infeht. Kr. 150/2, 142 -150, 1964).
- 16 — Parns, J. at al. : Leptospira die bei der Hausmaus (Mus musculus) Auftreten; ZBL. Bakt. I. Abt. (Orig. 182/1, 121 -128, 1961.
- 17 — Popp. L. : Epidemiology of Field Fever in the Brunswich; Exc. Med. Microb, 14/2 132, 1961. (Arch. Hyg. Berl. 144/5 345 - 374, 1960).
- 18 — Rademan J. at al : First Isolation of leptospira in Cap TOWN; Exc. Med. Microb. 18/1, 695, 1965. (S. Afr. Med. J. 38/30, 694 - 696, 1964).
- 69 — WHO : Leptospirosis; Exp. Commit on zoonosis. Tech. Rep. Sc. 378/ 54 - 61, 1967.
- 20 — WHO : Prob. Actuel des Recberches sur la Leptospira Serie d'Rep. Tech. 380, 1967.
- 21 — WHO : Tec. Rep. Ser., 35/2 278 - 279, 1966.