

# KANATLI HAYVAN FİZYOLOJİSİ

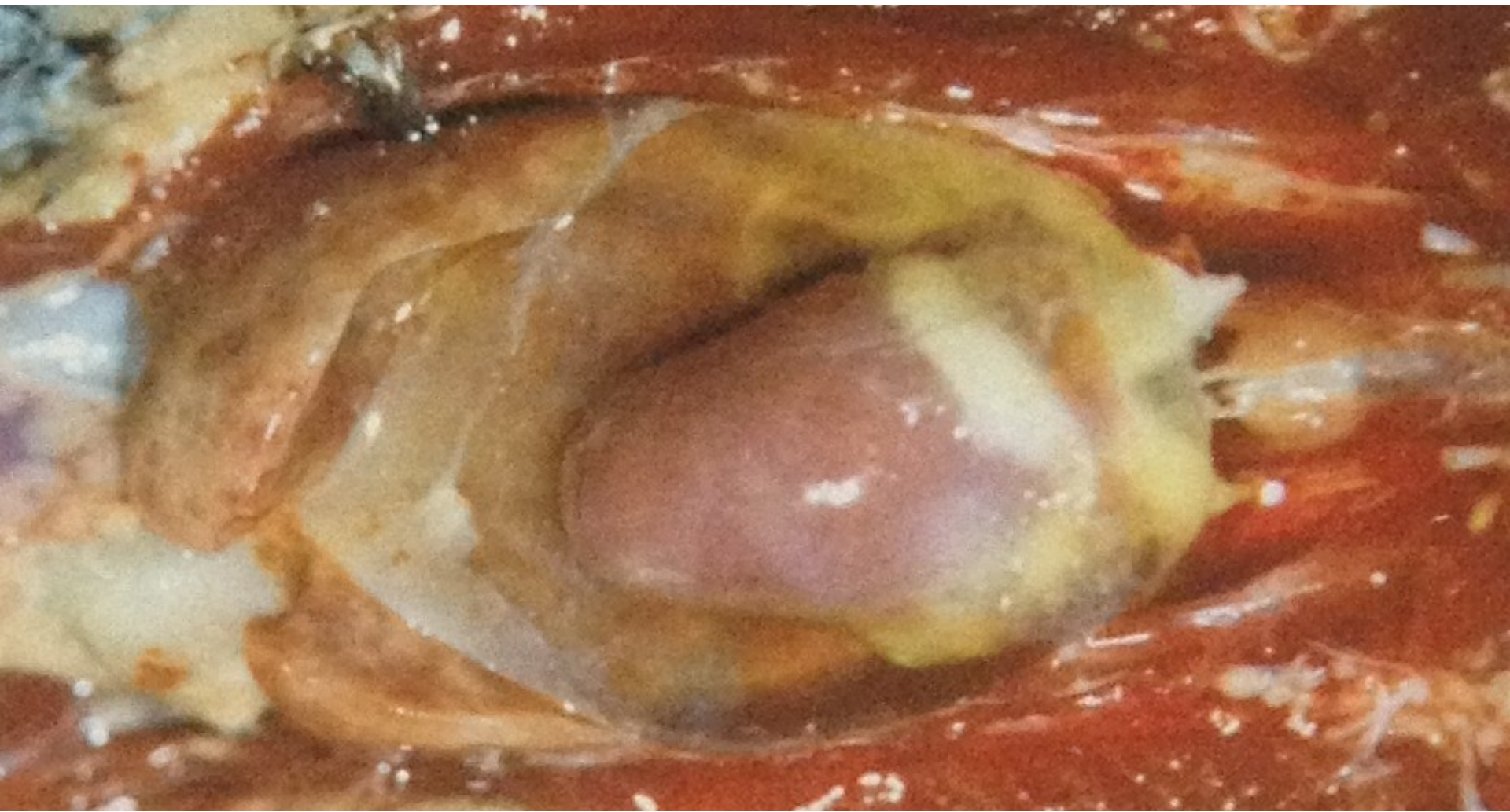
3. HAFTA

Kalp ve Dolaşım Sistemi

Kanatlılarda kalp göğüste ortanın hafifçe solunda yer alır ve gövdeye neredeyse paralel ancak üst tarafı sağa doğrudur.

Perikardiyak kese ile çevrelidir.









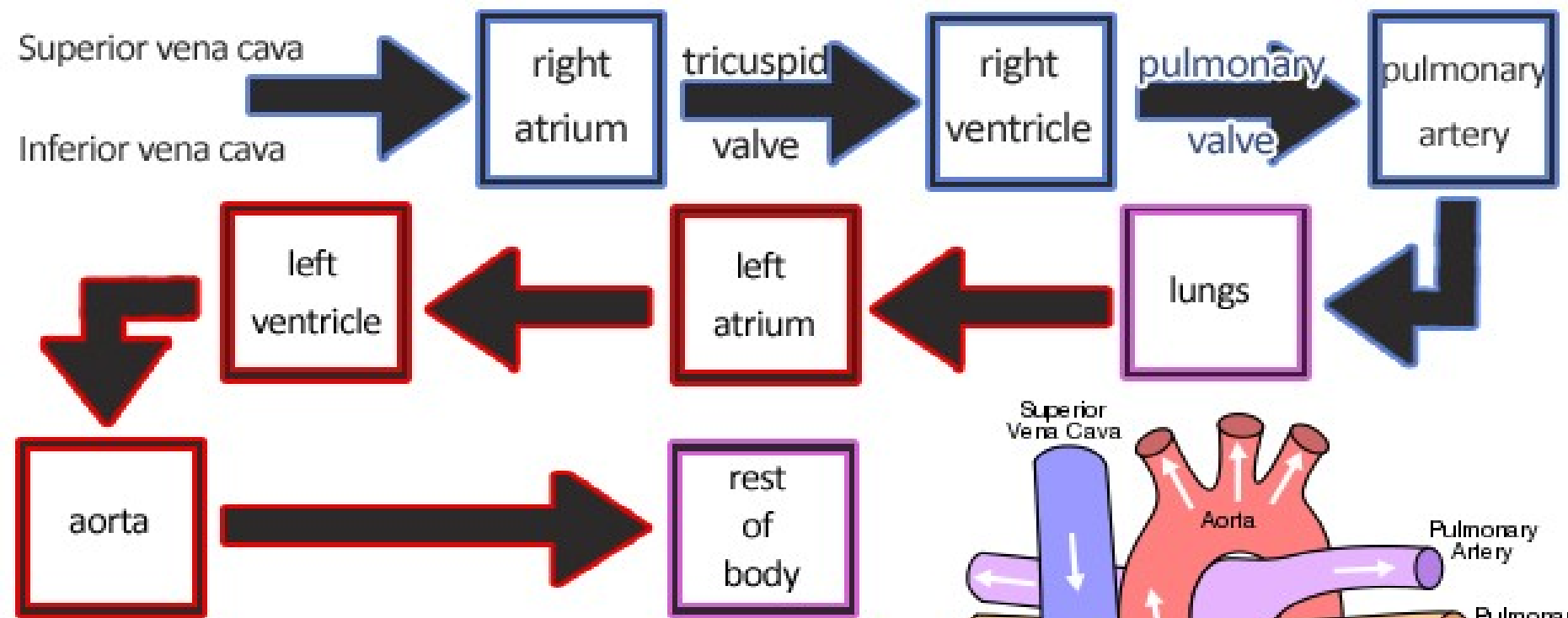
Kanatlı kalbi, memelilerinki gibi dört odacığa;  
iki kulakçık ve iki karıncığa sahiptir.

Sağ kulakçık genelde soldan büyüktür.

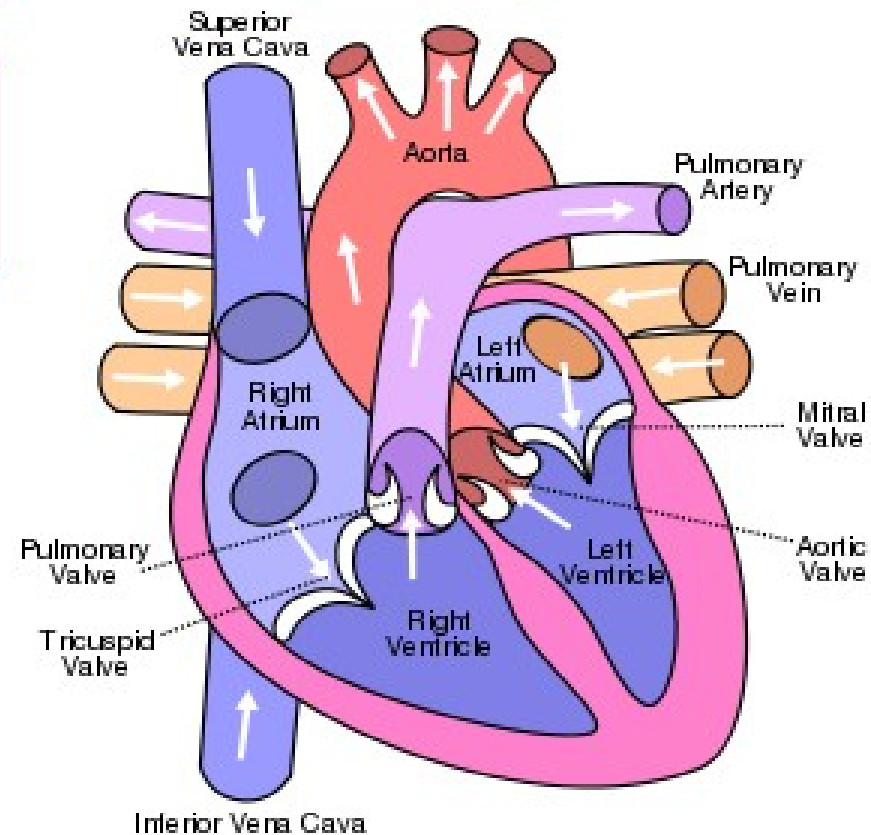
Sol karıncık genellikle sağ ventrikülden üç veya  
daha fazla kat büyüktür.



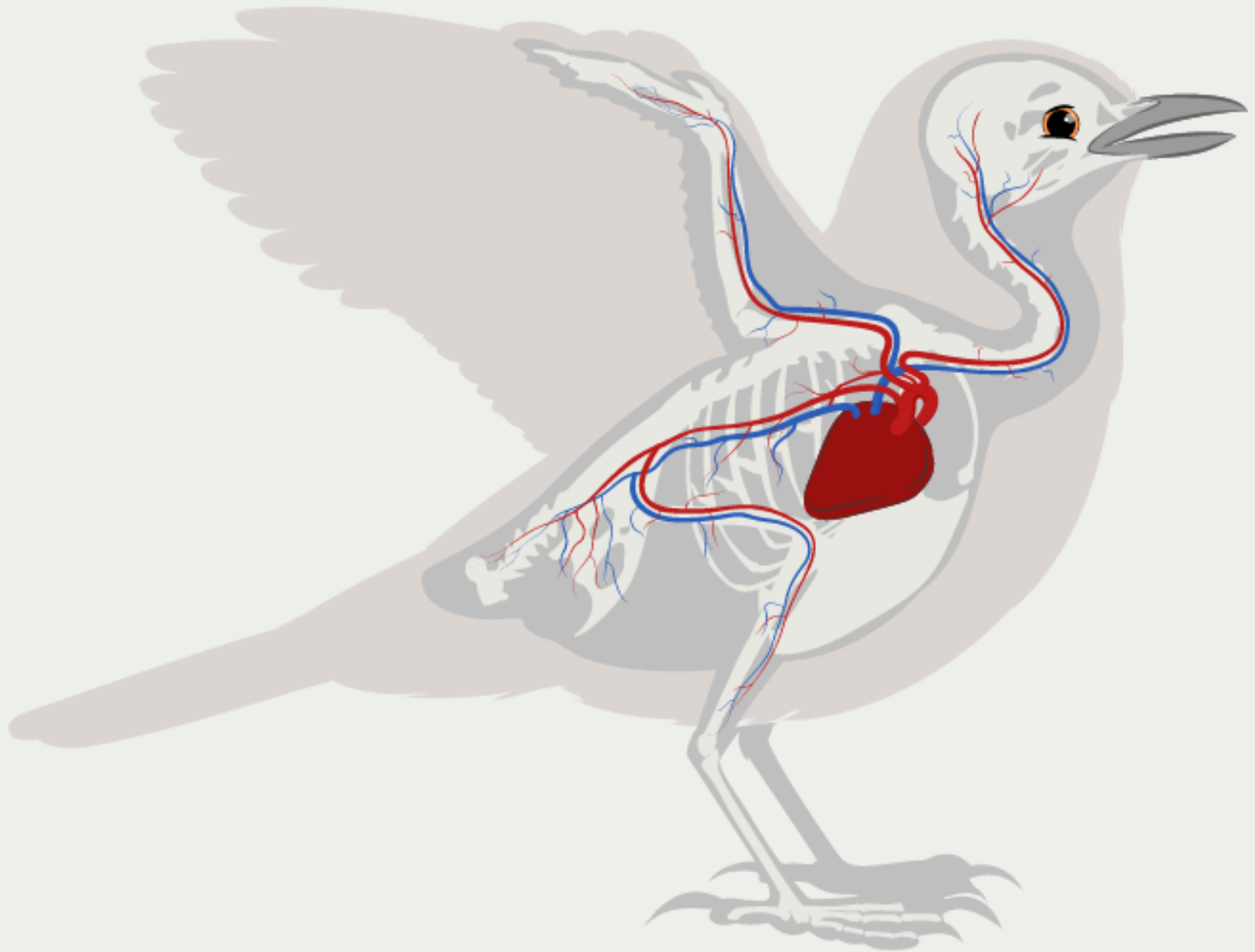




# Circulation of Blood Through the Heart:











bin çapraz bölümler, 5-6 tane

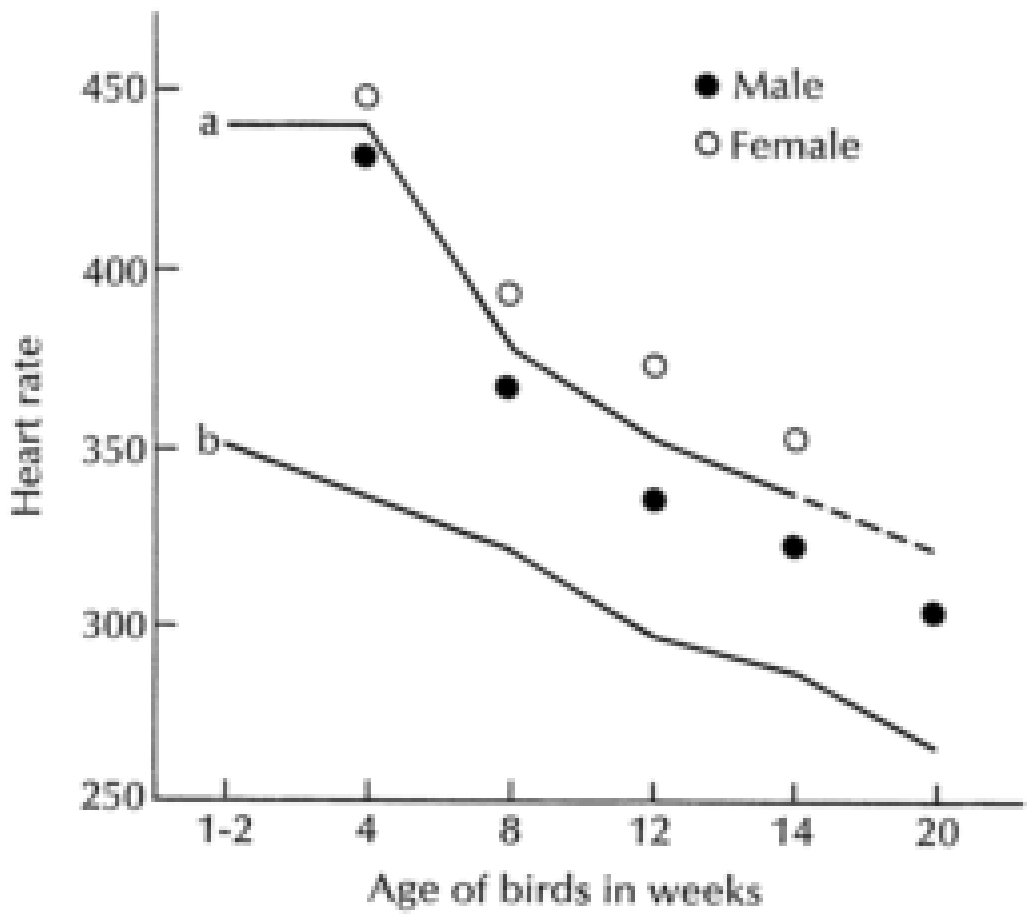


# Kalp Atış Hızı (Heart Rate)

Table 5-1 Heart rates of birds

Species	Age	Sex	Mean heart rate (beats/min)	Reference
White Leghorn chicken	1 day	—	286	Ringer <i>et al.</i> (1957)
	1 week	—	474	Ringer <i>et al.</i> (1957)
	7 weeks	Male	422	Ringer <i>et al.</i> (1957)
	7 weeks	Female	435	Ringer <i>et al.</i> (1957)
	7 weeks	Capon	425	Ringer <i>et al.</i> (1957)
	7 weeks	Poulard	452	Ringer <i>et al.</i> (1957)
	13 weeks	Male	367	Ringer <i>et al.</i> (1957)
	13 weeks	Female	391	Ringer <i>et al.</i> (1957)
	22 weeks	Male	302	Ringer <i>et al.</i> (1957)
	22 weeks	Female	357	Ringer <i>et al.</i> (1957)
	22 weeks	Capon	350	Ringer <i>et al.</i> (1957)
	22 weeks	Poulard	354	Ringer <i>et al.</i> (1957)
	White Leghorn chicken restrained unrestrained	Adult	Male	304
Adult		Male	191	Cain and Abbott (1970)
Bronze turkey	8 weeks	Male	288	Ringer and Rood (1959; cited in Chapter 2)
	8 weeks	Female	283	Ringer and Rood (1959)
	12 weeks	Male	234	Ringer and Rood (1959)
	12 weeks	Female	230	Ringer and Rood (1959)
	18 weeks	Male	198	Ringer and Rood (1959)
	18 weeks	Female	212	Ringer and Rood (1959)
	22 weeks	Male	198	Ringer and Rood (1959)
	22 weeks	Female	232	Ringer and Rood (1959)
	22 weeks	Adult male	160	Ferguson <i>et al.</i> (1969)
22 weeks	Adult female	219	Ferguson <i>et al.</i> (1969)	
Pekin duck	4 months	Male	194	Ringer <i>et al.</i> (1955)
	4 months	Female	190	Ringer <i>et al.</i> (1955)
	12-13 months	Male	189	Ringer <i>et al.</i> (1955)
	12-13 months	Female	175	Ringer <i>et al.</i> (1955)
White king pigeon	Adult	Male	202	Ringer <i>et al.</i> (1955)
	Adult	Female	208	Ringer <i>et al.</i> (1955)
Robin	Adult		570	Woodbury and Hamilton (1937; cited in Chapter 4)
	Adult		384	Lewis (1969)
Canary	Adult		795	Woodbury and Hamilton (1937; cited in Chapter 4)
Blue-winged teal	Adult		1000	Tigerstedt (1921)
Blue jay	Adult		165	Owen (1969)
Cat bird	Adult		307	Lewis (1967)
Brown thrasher	Adult		465	Lewis (1967)
Wood thrush	Adult		303	Lewis (1967)
			363	Lewis (1967)
<i>Coturnix</i> (Japanese quail) restrained unrestrained (telemetry)	Adult	Male	445	Cogger <i>et al.</i> (1974)
	Adult	Male	368	Cogger <i>et al.</i> (1974)

# Kalp Atış Hızı (Heart Rate)



5-4 Normal resting heart rates: (a) of chickens males and females at 2, 4, 8, 12, 16, and 20 weeks of age. (b) Intrinsic heart rates resulting from administration of propranolol and atropine (PA). (After Sturkie and Chillseyzn, 1972.)

# **Kalp Atıř Hızına Etki Eden Faktörler**

Yař

Aydınlatma ve Ortam Sıcaklığı