

## تأثير العجز الكلوي المزمن (CRF) على بعض الخواص الفسلجية للدم

( $p < 0.05$ )

( $P < 0.05$ )

### Abstract

The results of this study about effect of chronic renal failure (CRF) on some physiological properties to the blood cells tha were significant decreasing ( $P < 0.05$ ) in the number of red blood corpuscles , hemoglobin concentration (Hb) and the rate of the packed cell volume (PCV) to the (CRF) patients as compared with control . Also there was significant increasing ( $P < 0.05$ ) in the estimate sedimentation rate (EsR) and the number of white blood cells (WBC) to the (CRF) patients as compared with control .

Chronic renal failure

Diabetes

Mellitus (DM)

. (National Kidney Foundation,2006).

(Tonelli, *et.al.*2006)

(Goult,*et.al.*1992)

(Levey,*et.al.*;2006)(Goldman and Ausilla;2007)

erythropoietin

. (Singh,*et.al.*2006).

(Edmund,*et.al.*2004)

. (Hsu,2002)

:

(Xue,et.al.2002)

( 12 18) (30)  
 (15)  
 (70-40) . ( 5 10)  
 ( 5)  
 (EDTA)  
 -:  
 Red blood corpuscles count (RBC) -  
 ( Coles,1986 ). Haemocytometer  
 .Haemoglobin concentration (HB) : -  
 ( Coles,1986 ). Sahli's system  
 Packed cell volume (PCV) -  
 Capillary tubes  
 (Sood,1986).  
 Erythrocyte Sedimentation Rate (ESR) -  
 (Coles,1986). Westergren method  
 ( Coles,1986 ) .Total Leucocytes Count -  
 . Turk's fluid Haemocytometer  
 Complete Randomized  
 Least Significant Difference (L.S.D) Design (CRD)  
 . (Scheffler,1980)  
 (P<0.05)  
 (<sup>3</sup> 3.11 ± 0.4) (<sup>3</sup> 3.11 ± 0.82 )  
 (Besarab and Levin,2000 ; Edgar, . (1)  
 . V.;Lerma;MD.;2009)  
 (Lim,et.al;1989) . (Lameire,et.al;2006).

Erythropoietin (EPO)

. (Tiffert,*et.al.*;2000 and Nemoto,2001).

. ( 100/ 14.5 ± 2.1) ( 100/ 10.5 ± 3.93)

. (Poggio,*et.al.*2005)

( %30.23 ± 2.98) (Pcv) ( %41.23 ± 2.62)

. (Besarab,Levin,2000).

(ESR)

( / 7.23 ± 2.69) ( / 17.91 ± 2.18)  
 . (1 ) ( / 5.81 ± 2.11) ( / 5.82 ± 1.97)  
 (ESR)

. (Singh,*et.al.*,2006). (120)

(WBC)

. (Bethesda,2008).

(Edgar,Lerma,2009) (Singh, *et.al.*2006)

(1)

4.32 ± 0.4	*3.11 ± 0.82	R.B.C ( <sup>3</sup> /10 <sup>6</sup> x)
14.5 ± 2.1	*10.5 ± 3.83	Hb 100/
40.23 ± 2.6	*30.23 ± 2.98	PCV(%)
5.82 ± 1.97	*17.91 ± 2.18	ESR /
5.81 ± 2.11	2.69 ± *7.23	WBC ( <sup>3</sup> /10 <sup>3</sup> x)

±

(P<0.05)

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