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## **Histopathological Effects of Alcohol on the Brain of Male White Mice**

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### **ABSTRACT**

This study revealed the presence of histopathological changes of mice brain, through the treatment of alcohol. It is represented by increase in the number of glial cells and congestion of blood vessels of the choroid plexus or thickening of wall of others. Moreover there is infiltratron of monocytes, necrosis and vaculation in neurons and glial cells. In cerebellum the histopathological changes was represented by necrosis and vaculation of astrocytes in the molecular layer and atrophy in granular layer and purkinje's cells.

(Tierney et al., 2004)

(Mckinney and Coyle, 2006)

(Schulteis and Liu, 2006)

Cerebral vasodilation

(Samuels and Feske,1996) Cerebral vasoconstriction

( Acetaldehyde )

.( Paral, 1995 )

(Schulteis and Liu, 2006)

( Adolescent )

( Juvenile )

.(Brasser and Spear, 2002)

(Elimination )

(Encephalopathy)

Good man and ) (Energy fuels)

( ) B

(Beissonnault,1998

( Parasthesia )

(Muscles cramps)

(Anorexia)

(Tierney et al., 2004)

(Irritability)

Wernicke – )

(Korsakoff syndrome

(Fogel et al., 1996)

(Ophthalmoplegia)

(Nystagmus)

.(Macswen and Whaley, 1992 ; Lewis et al., 1996 ; kumar et al., 2003)

.....

.(Holownia et al., 1996)

(3-4) *Mus musculus* (48)  
 24 (25-30)  
 (12) (12)

/ (25%) / (0.015)  
 (Rifas et al., 1997) (95%)

/ 0.015

.(Kronick,1976)

Neutral buffered )%10

( 3 ) °( 60 )

( paraffin wax )

(formanlin 10%

( Impregnated )

(5-6)

(Harris haematoxylin and eosin stain)

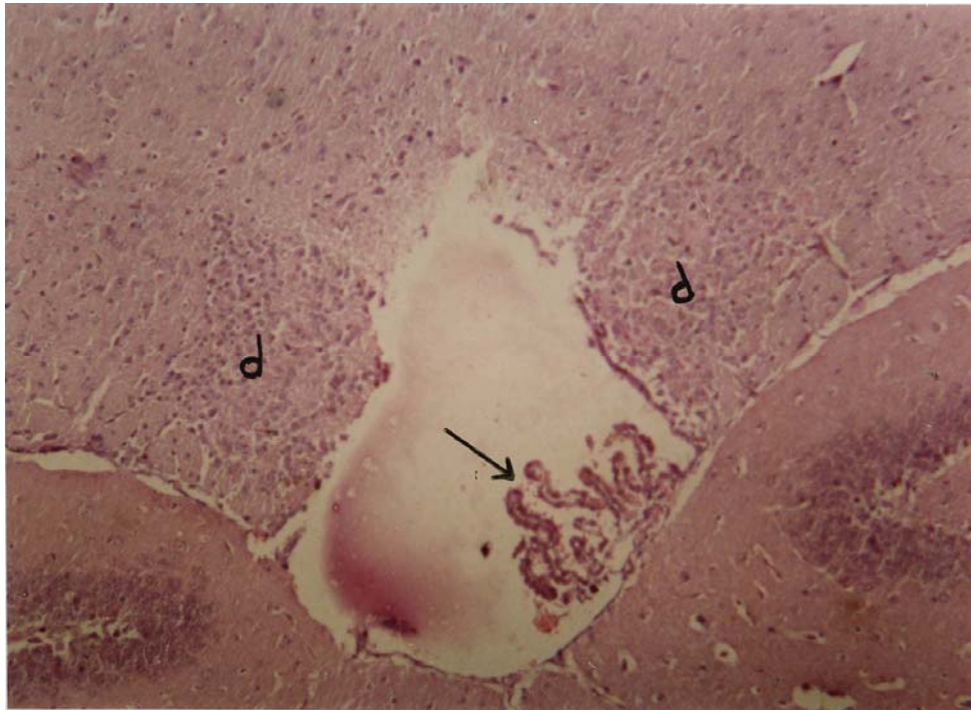
(Bancroft and Stevens, 1983)

(Binocular microscope)

(1)

(3)

(2)



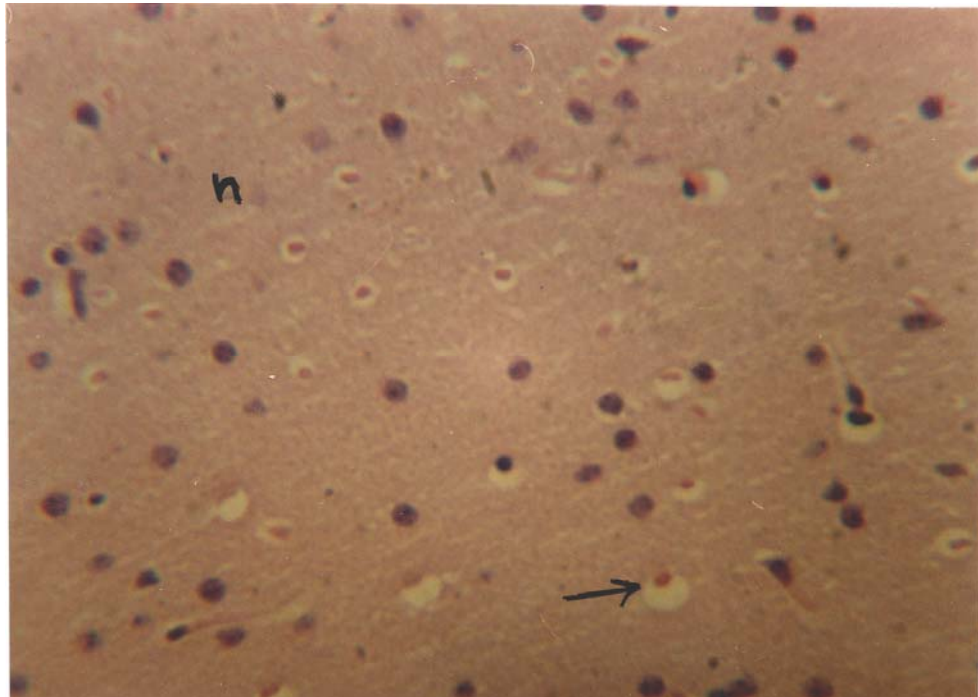
( )

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( )

10x .

( d )



( )

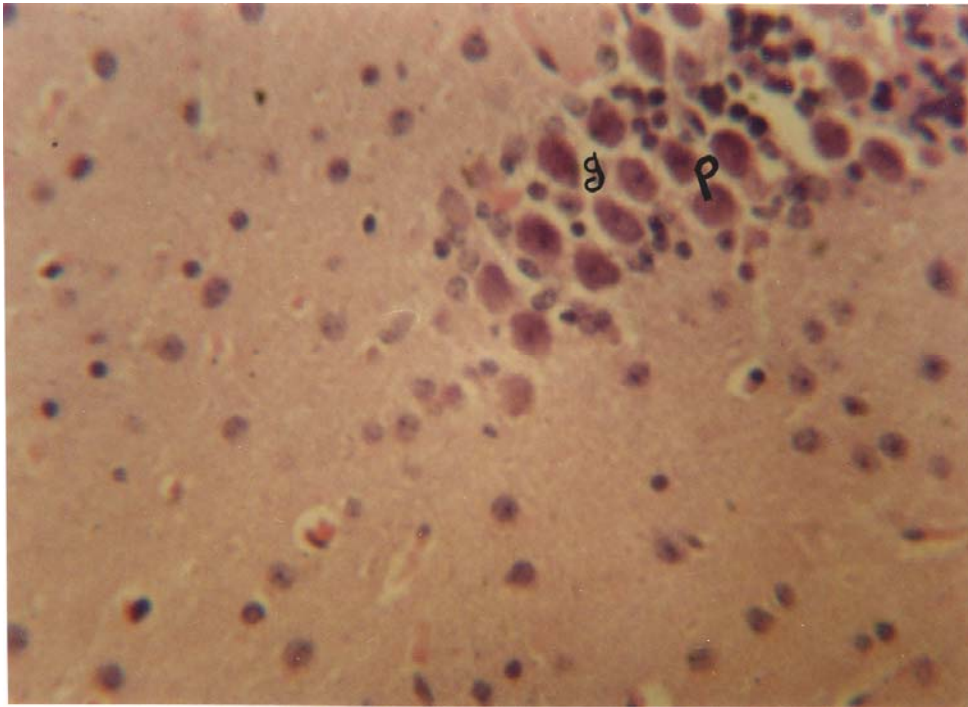
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( )

400x .

( n )

.....



( )

: 3

(g)

400x .

(p)

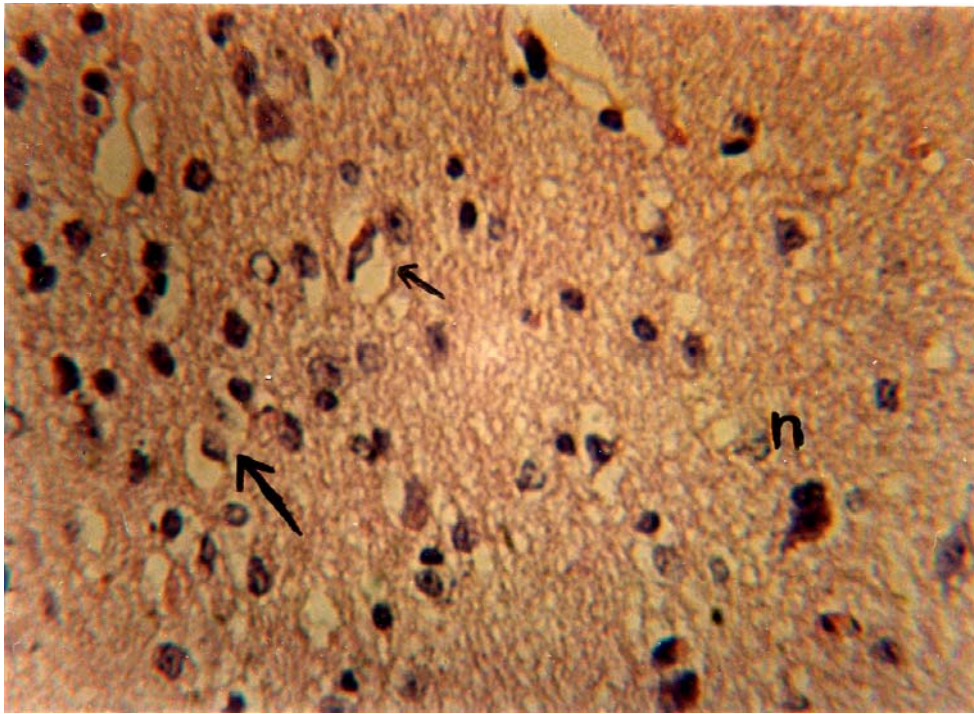
.(4)

.(5)

(6) (Perivascular cuffing)

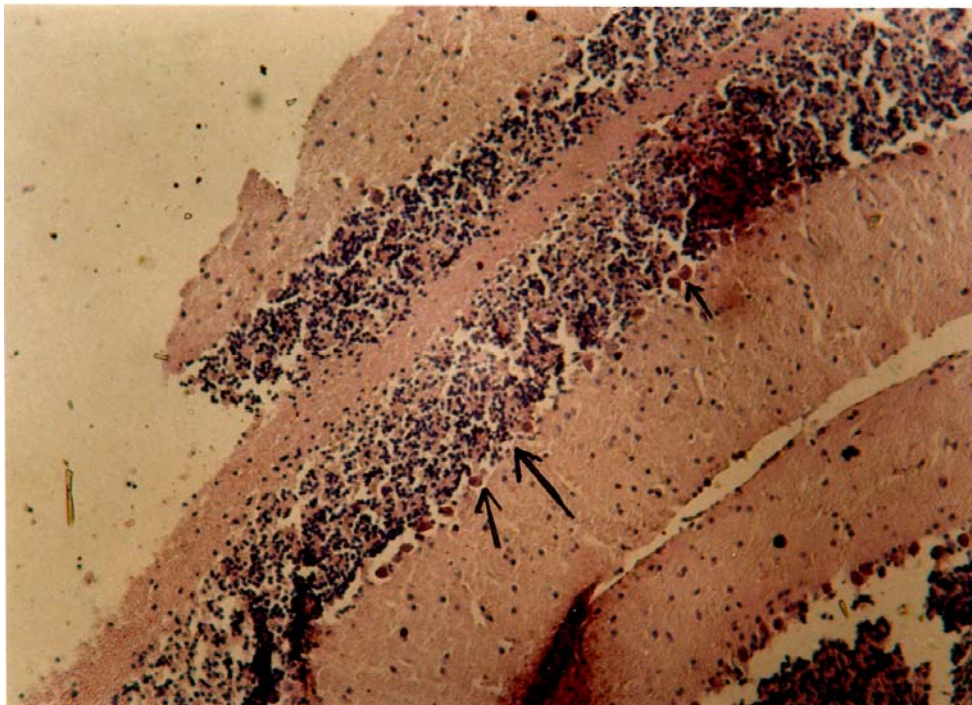
.(8)

.(9)



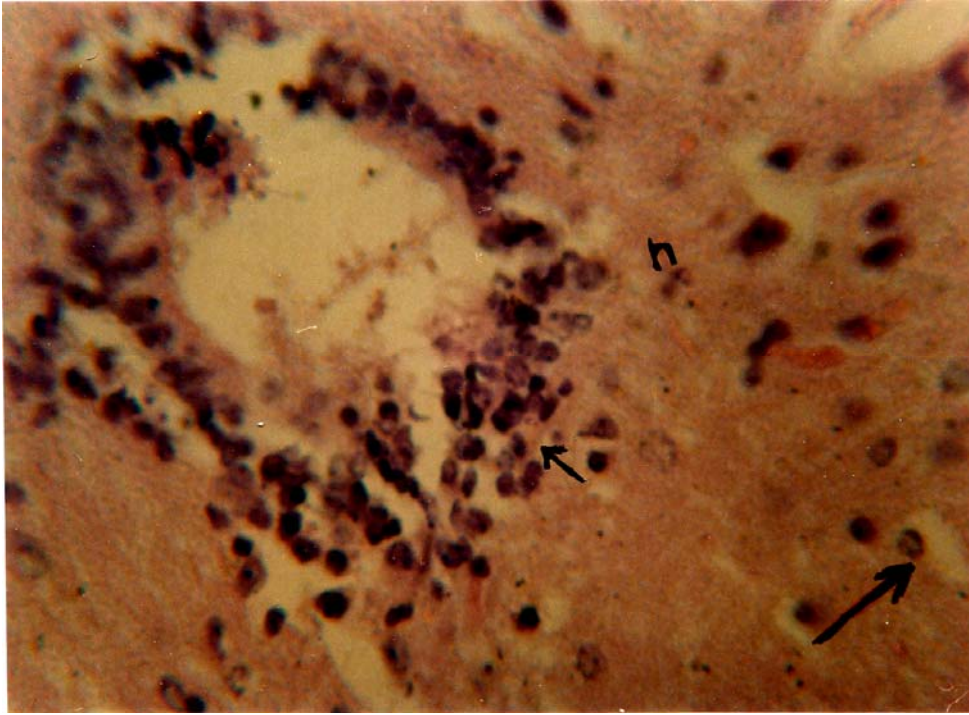
( ) ( ) : 4  
( )

(n)  
400x



( ) ( ) : 5  
( )  
100x .

.....



( )

: 6

( ) ( )

400x .

( )

(n)



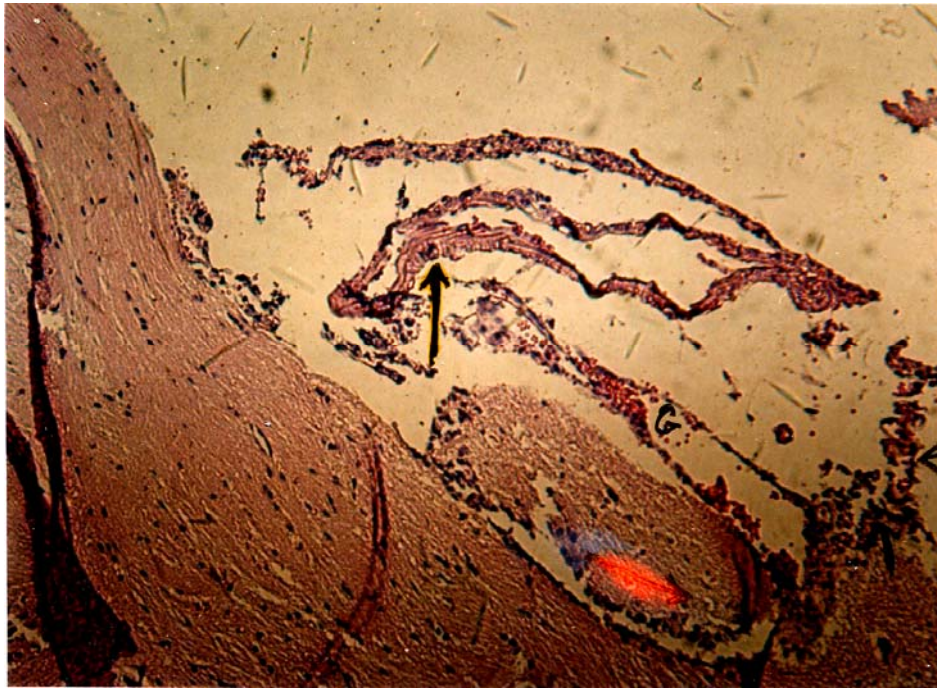
( )

: 7

( )

( )

100x



( )

: 8

(G)

.( )

100x .

( )



: 9

(m)

(w)

.( )

100x .



(Krishna, 2004 ; Kumar et al., 2005)  
 (Damage) (Macswen and waley, 1992) Gliosis  
 astrocytosis ) (Hypertrophy and Hyperplasia)  
 (orgliosis

(Kumar et al., 2005) (Metaplasia)  
 (Endothelial) (Proliferation)  
 (Vacculation)  
 (Macswen and waley, 1992)  
 ( Ischmia ) (Hypoxia)

(Samuel and Feske, 1996 ; Goodman and Boissnault,1998)

(Krishna,2004; Kumar et al.,2005)

(Macswen and waley, 1992) (Macrophage)

(Kumar et al., 2005)

.( Samuel and Feske, 1996 )

(Acetaldehyde)

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