

## DIFFERENT TYPES OF RESPONSE TO HEPATIC ARTERIAL ISCHEMIA IN RATS WITH CHOLESTASIS

M.A. ALLER, L. LORENTE, S. ALONSO, G. RODRIGUEZ and J. ARIAS

*Surgery Department, Hospital Universitario San Carlos,  
 Universidad Complutense, Madrid, Spain*

*(Accepted for publication December 17th, 1992)*

**Table 1** Survival, type of infection and biliary culture in Groups A, B, C<sub>1</sub>, C<sub>2</sub> and D.

Group	A (n = 21)		B (n = 21)		C (n = 36)				D (n = 22)	
	n	%	n	%	C <sub>1</sub> (n = 19)		C <sub>2</sub> (n = 17)		n	%
Survival rate	21	100	16	76,2	7	36,8	17	100	21	95,5
Death rate	0***	0	5 <sup>+</sup>	23,8	12	63,2	0***	0	1***	4,5
Infection:	1***	4,8	12	57	4*	21,1	5	29,4	2***	9
a. Local	1	4,8	4	19	1	5,3	3	17,6	2	9
b. Systemic	0	0	8	38	3	15,8	2	11,8	0	0
No infection	20	95,2	9	43	15	78,9	12	57,1	20	91
Biliary culture	----		B (n = 16)		C <sub>1</sub> (n = 14)		C <sub>2</sub> (n = 17)		D (n = 21)	
			n	%	n	%	n	%	n	%
(+)	----		9*	56,3	14	100	11*	64,7	10***	47,6
(-)	----		7	43,7	0	0	6	35,3	11	52,4

\*p < 0.05; \*\*p < 0.01; \*\*\*p < 0.001; S.S. value regarding Group C<sub>1</sub>

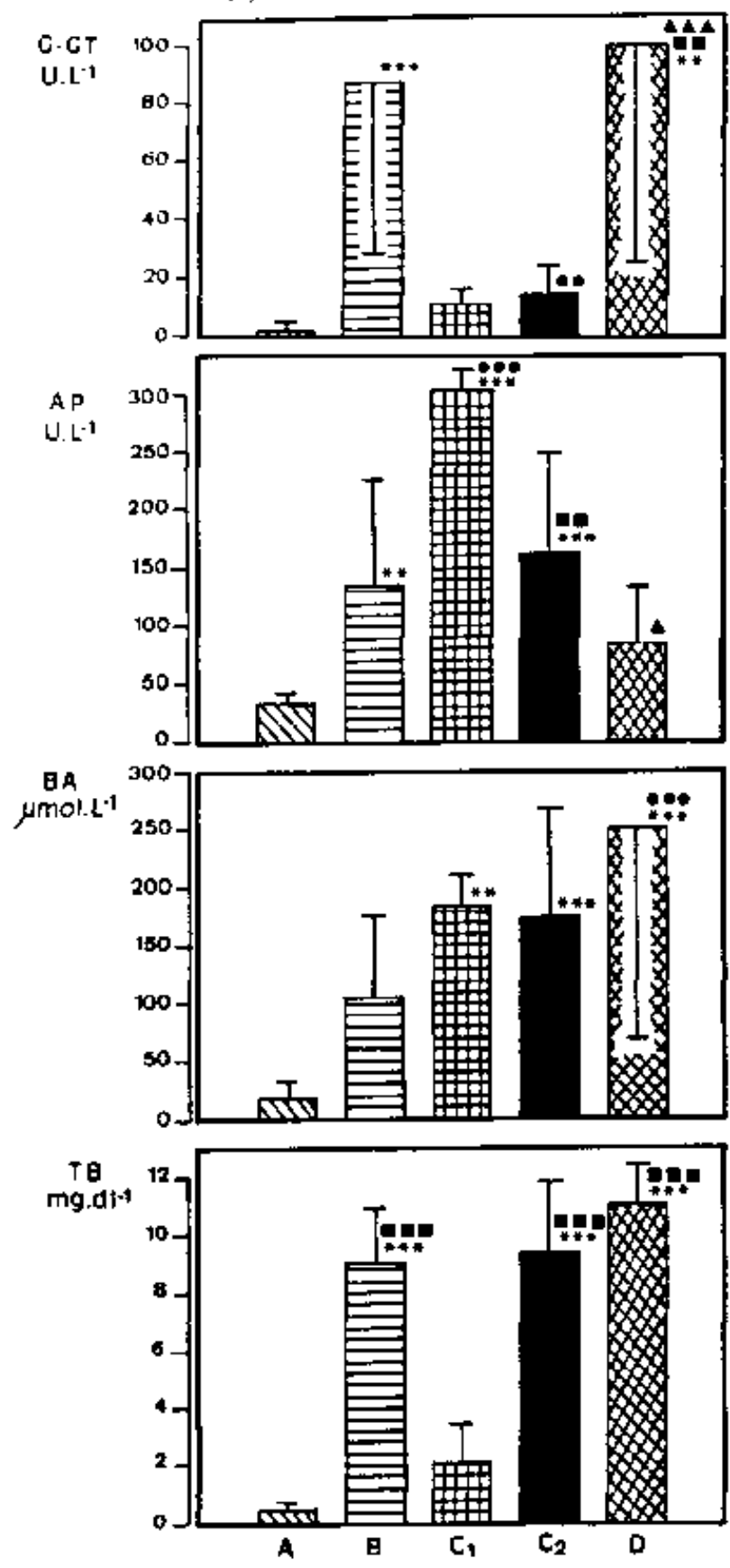
\*p < 0.05; \*\*p < 0.01; \*\*\*p < 0.001; S.S. value regarding Group B

Group A: sham operated rats.

Group B: rats with bile duct ligation and transection.

Group C: rats with bile duct and hepatic artery ligation and transection divided into Group C<sub>1</sub> and C<sub>2</sub> according to if there is a large hilar biliary cyst which includes the cholestatic hepatic parenchyma.

Group D: rats with bile duct ligation and transection and hepatic artery denervation.



**Figure 3** Total bilirubin serum concentrations (TB; mg.dl<sup>-1</sup>), bile acids (BA; μmol.l<sup>-1</sup>), gamma-glutamyl-trans-peptidase (G-GT); U.L<sup>-1</sup>) and alkaline phosphatase (AP; U.L<sup>-1</sup>) in Groups A, B, C<sub>1</sub>, C<sub>2</sub> and D.

\*\*p < 0.01; \*\*\*p < 0.001: S.S. value regarding Group A.

\*\*p < 0.01; \*\*\*p < 0.001: S.S. value regarding Group B.

■p < 0.01; ■■■p < 0.001: S.S. value regarding Group C<sub>1</sub>.

▲▲▲p < 0.001: S.S. value regarding Group C<sub>2</sub>.