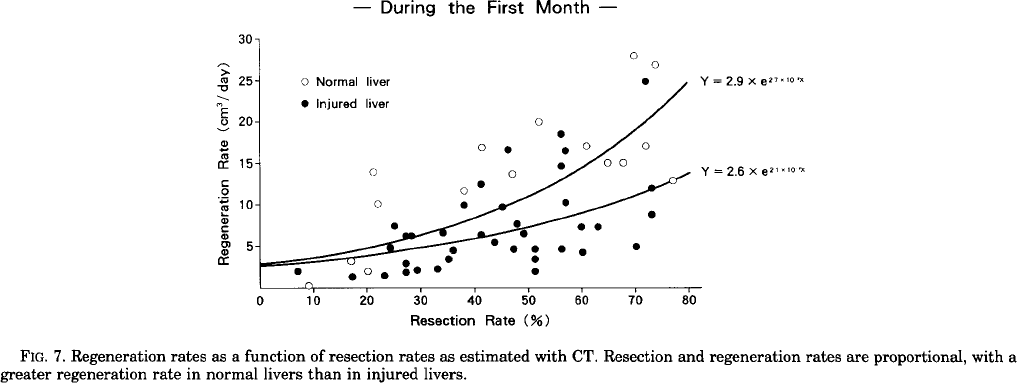
# Partial Hepatectomy, Regeneration & Liver function

Interesting & complex relationship between partial hepatectomy, regeneration and actual liver function.

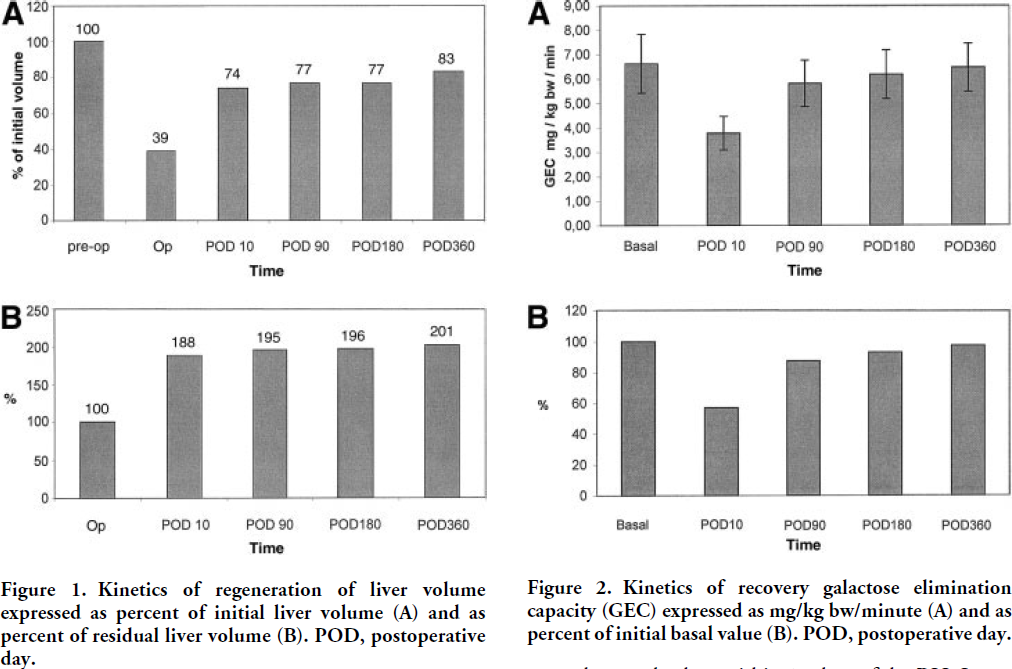
Study in rats showed that liver functions are dissociated in time following 70% hepatectomy, and that GEC is restored before regeneration can compensate for the loss in liver cell mass {Yildrim1981}.

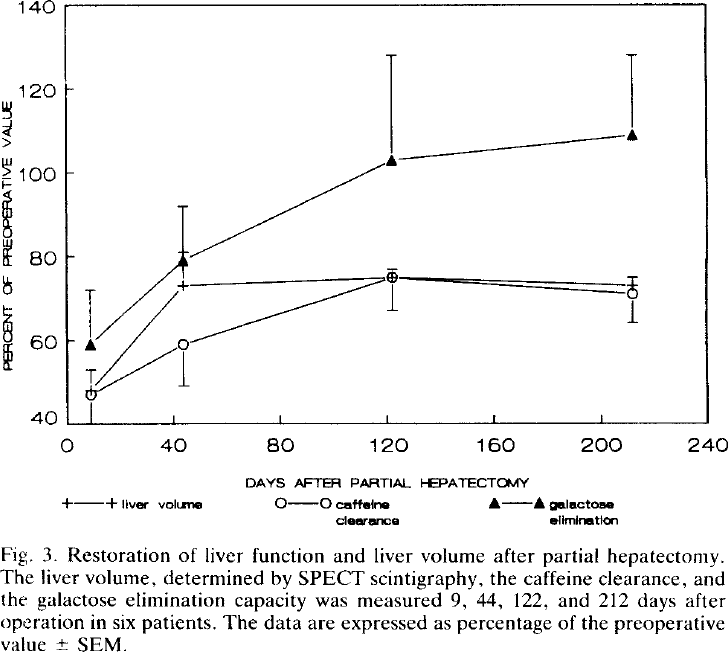
The rapid increase in the activities of the galactose metabolizing enzymes in vitro followin 70% hepatectoy {Bauer1976} led to the hypothesis that GEC *in vivo* is restored to normal due to an increased metabolizing capacity of the surviving hepatocytes {Yildrim1981}.

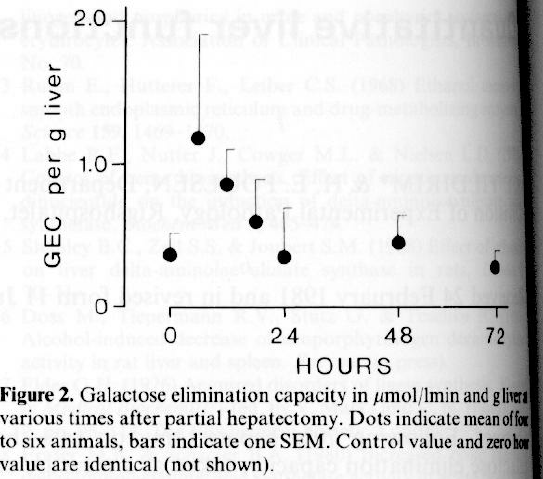
In both clinical and experimental studies, a discrepancy has arisen between volumetric and functional regeneration, from which 2 contradictory theories have emerged. The first theory suggests that hepatocyte prolveration is promoted at the expense of liver function {Jochum2006}. The second theory postulates that hepatocellular function is enhanded after major PHx to compensate for reduced liver mass {Jansen1990, Yildrim1981, } {Graaf2011}.

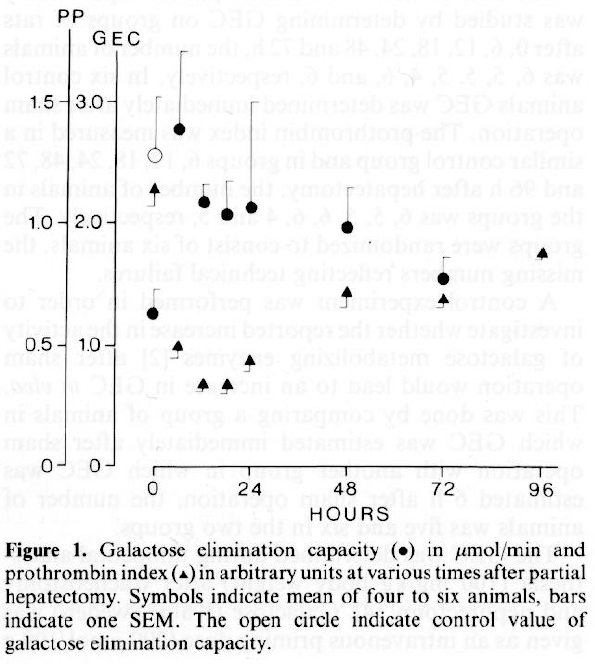


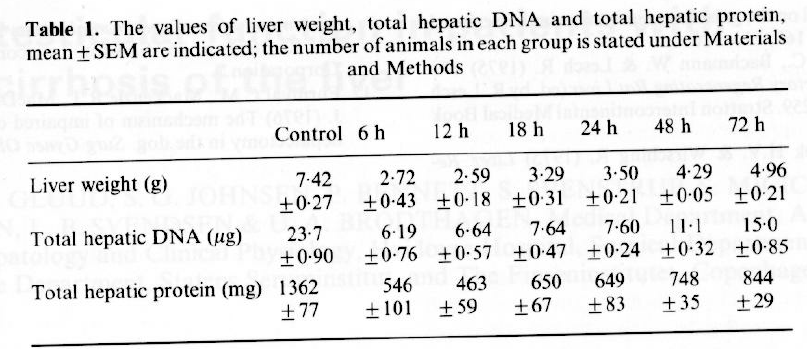
{Yamanaka1993}

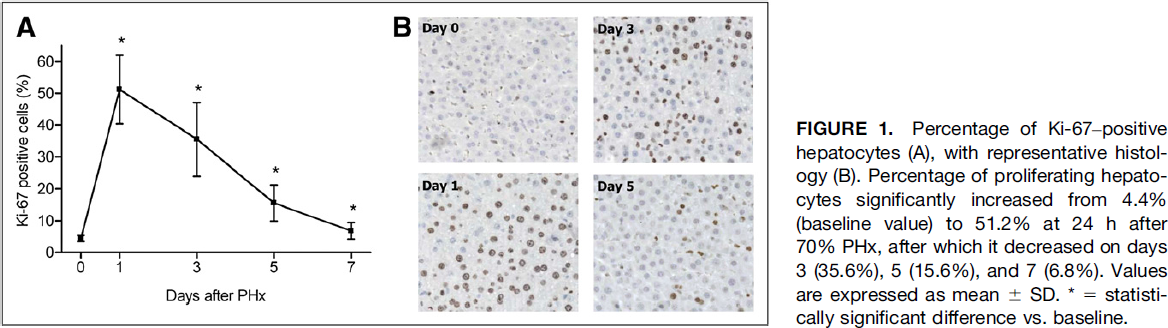
{Nadalin2004}

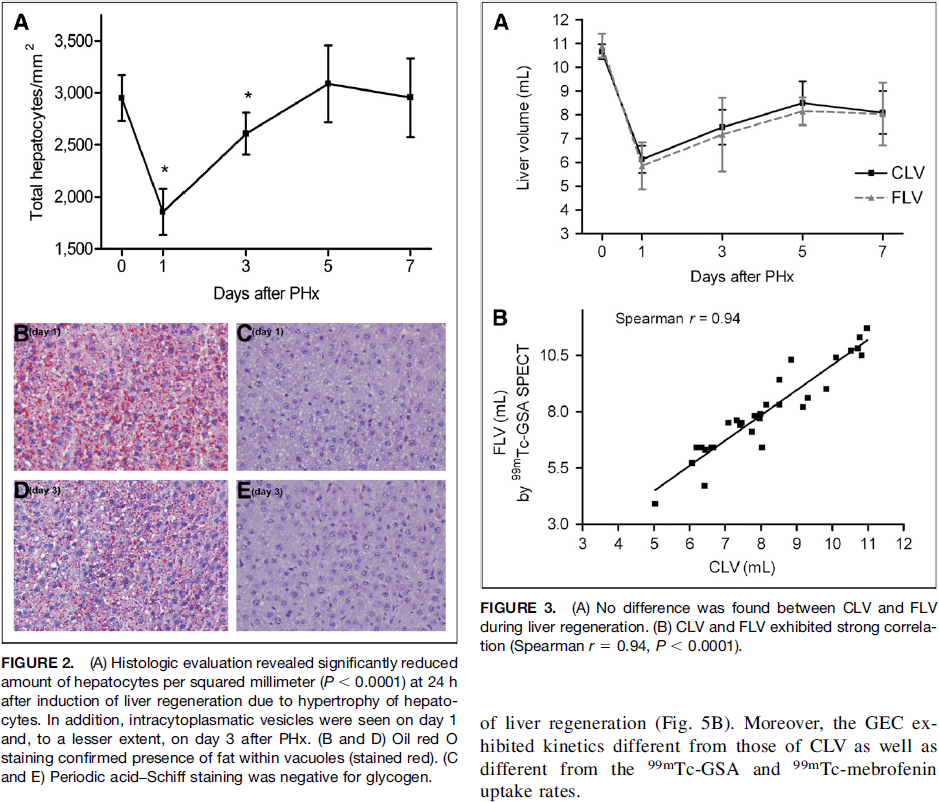
{Jansen1990}

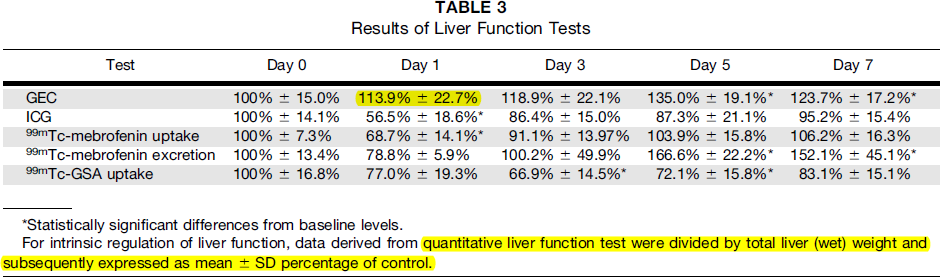
{Yildrim1981}

{Yildrim1981}

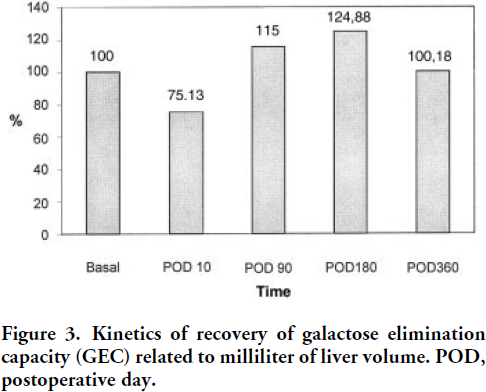
{Yildrim1981}

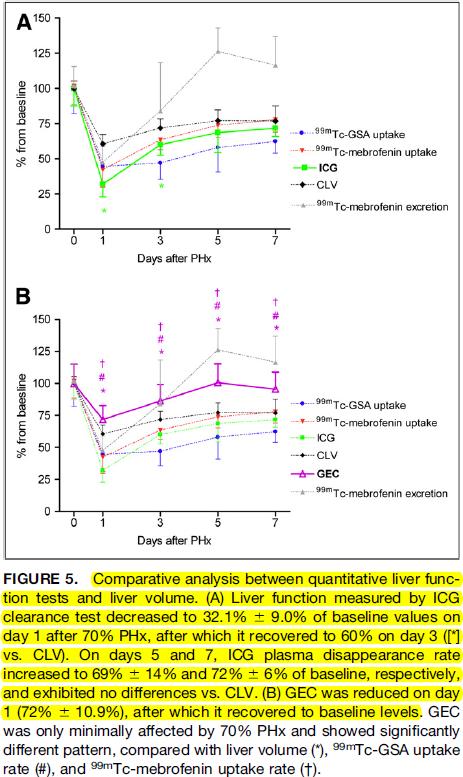
{Graaf2011}

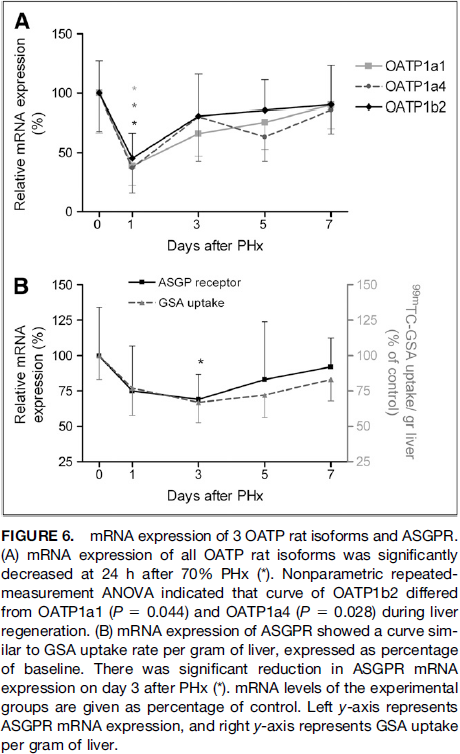
{Graaf2011}

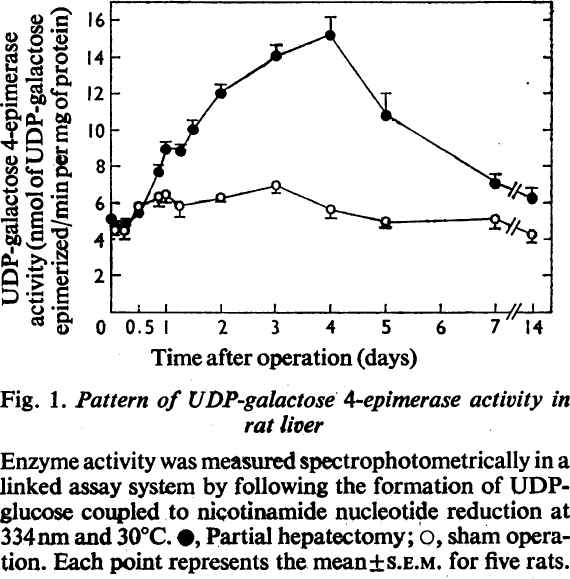


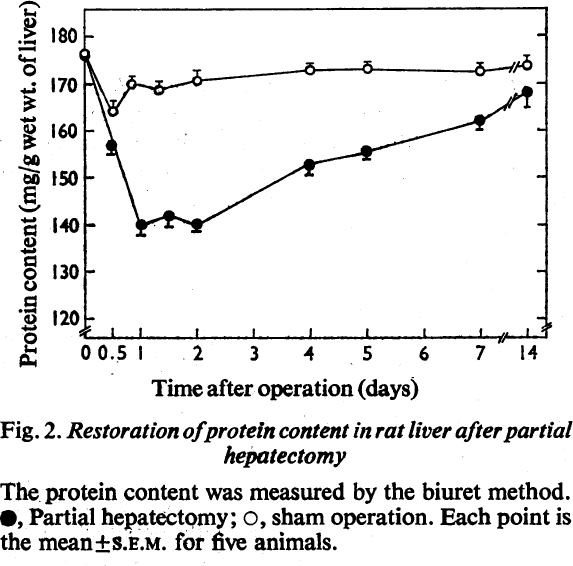
{Graaf2011}

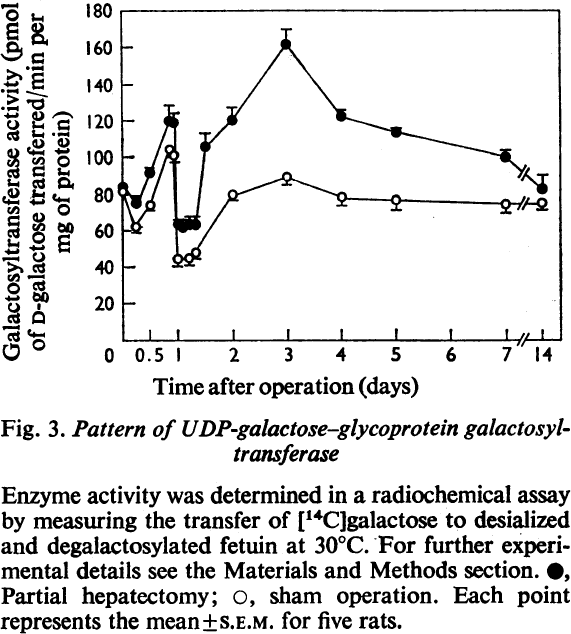
{Nadalin2004}

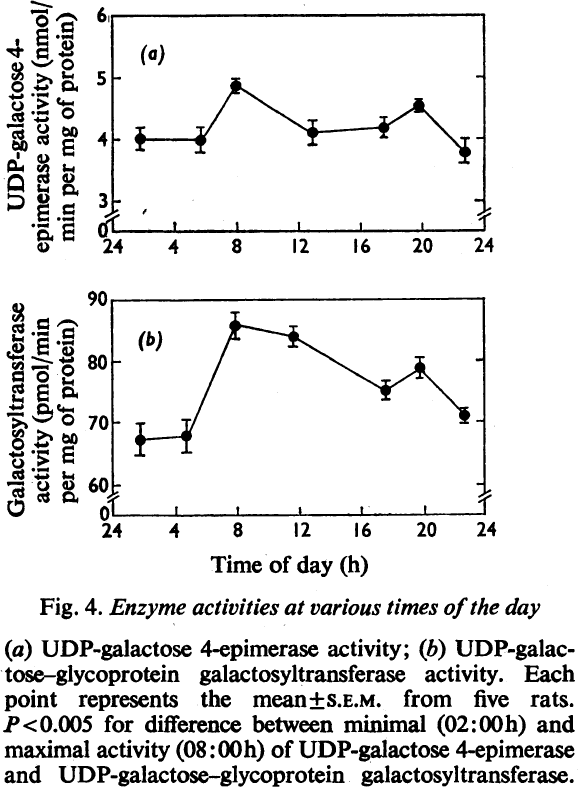
{Graaf2011}

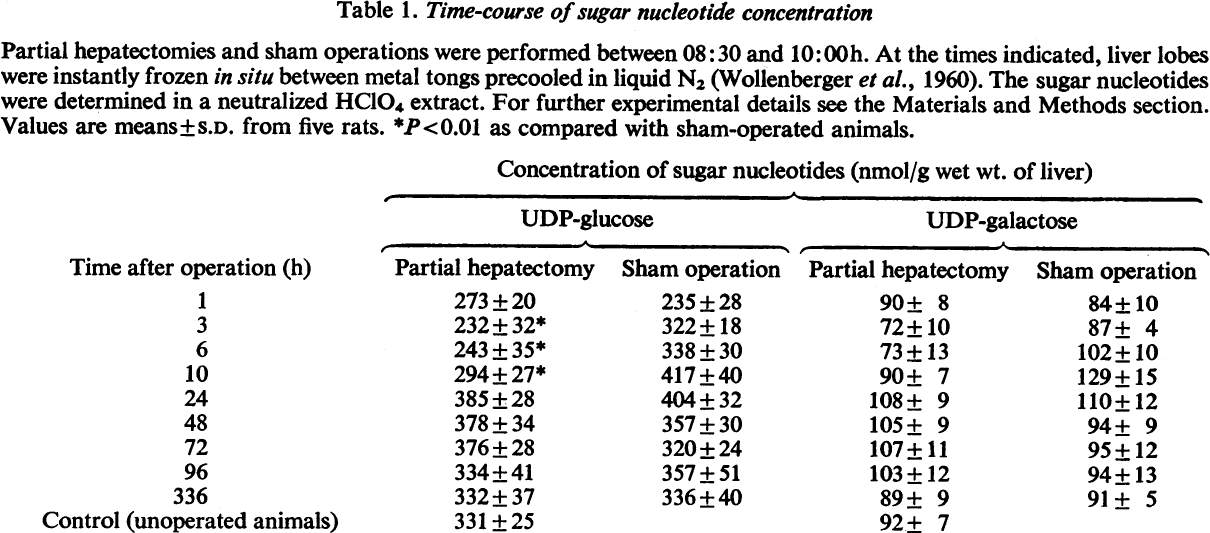
{Graaf2011}

{Bauer1976}

{Bauer1976}

{Bauer1976}

{Bauer1976}



{Bauer1976}

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