Blood-Vessel-System of the Liver

The liver (Hepar) is the biggest gland of the body. It is lying near the diaphragm (Diaphragma) and above the stomach (Ventriculus gaster). The biggest part of it is lying in the right side of the body while the left lobe of the liver is stretching repeatedly to the left side. Its lowest ground is divided by two parallelly running fissures (5 and 6) as well as one transversal fissure, the portal fissure (Porta hepatis, 7) into different single lobes (1, 2, 3 and 4). The gall bladder (Vesica fellea, 9) is lying in the right fossa for the gall bladder (Fossa vesicae felleae, 5); the rest of the embryonic umbilical vein turns out in the left liver fissure (Fissura ligamentum teretis, 6) as a round ligament of the liver (Ligamentum teres hepatis, 8) which is ending in the back of the portal vein (Vena portae, 14). The liver differs from all other organs by being supplied with two different sorts of blood: arterial blood through the hepatic artery (Arteria hepatica communis) and venous blood through the portal vein (Vena portae, 14). Two different substances are taken away: biliary fluid through the hepatic duct (Ductus hepaticus communis, 11), venous blood through the hepatic veins (Venae hepaticae, 15). The portal vein (Vena portae, 14) collects its venous blood from the digestive organs and branches out in the liver up to the finest capillary vessels. It is here where the biliary fluid separates from the blood and is brought to the equally fine hepatic ducts (Ductuli biliferi) which join to the main hepatic duct (Ductus hepaticus communis, 11). The last mentioned together with the cystic duct (Ductus cysticus, 10) are passing on as bile duct (Ductus choledochus, 12) whose biliary fluid is led to the duodenum.

1. Right lobe of the liver, Lobus hepatis dexter
2. Left lobe of the liver, Lobus hepatis sinister
3. Quadrate lobe, Lobus quadratus
4. Caudate lobe, Lobus caudatus
5. Fossa for the gall bladder, Fossa vesicae felleae
6. Left liver fissure, Fissura ligamentum teretis
7. Portal fissure, Porta hepatis
8. Round ligament of the liver, Ligamentum teres hepatis
9. Gall bladder, Vesica fellea
10. Cystic duct, Ductus cysticus
11. Hepatic duct, Ductus hepaticus communis
12. Bile duct, Ductus choledochus
13. Hepatic artery, Arteria hepatica communis
14. Portal vein, Vena portae
15. Hepatic veins, Venae hepaticae

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Vascular architecture of the liver
16. Branches of the left segmental cleft
17. Median vein
18. Branches of the ventral segmental cleft
19. Branches of the dorsal segmental cleft
20. Inferior caval vein

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Segmentum superius
Segmentum basale sinistrum
Segmentum quadratum superius
Segmentum inferior dextrum
Segmentum inferior sinistrum
Segmentum quadratum inferius
Segmentum cysticum

Segmental structure of the liver

Structure segmentaire du foie

Estructura segmentaria del hígado

Gült nur für JS 8/1
Gefäßarchitektur der Leber
For JS 8/1 only
Vascular architecture of the liver
Seulement pour JS 8/1
Architecture vasculaire du foie
Sólo para JS 8/1
Vasijas del hígado