

**Anastomosis of the hepatic artery for right lobe graft segmental liver
transplantation**

(Application of Varioscope and Microvascular double clamp type A-II)

Presented by:

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When we perform anastomosis of the hepatic artery for segmental liver transplantation,
we usually use 'Varioscope' instead of a conventional microscope.

Varioscope is a loupe-type magnifier with special function of non-step zoom and focus.

'Microvascular double clamp type A-II', which has been developed by Dr. Ikuta of Hiroshima University, is used to grasp hepatic artery. We will introduce our unique way of hepatic artery reconstruction with application of combination of these two excellent products.

The first 7 out of total 40 cases of anastomosis of the hepatic artery for right lobe graft segmental liver transplantation were carried out with conventional Microscope, and Varioscope was used for the rest of 33 cases. Time used to anastomose hepatic artery were 68.3 ± 30.9 min. for Microscope, and 44.0 ± 11.6 min. for Varioscope, which resulted in effectively reducing the time for anastomosis.

Being loupe type, Varioscope realize the highest mobility of surgeon and device, which eventually results in less effect on the operative view due to the respiratory variation of patients. Another advantage was that it did not require temporary breathing restriction when performing suturing.

Microvascular double clamp type A-II has two bulldog clamps fixed on the sliding bar, which can grasp and suture small vascular with diameter of 0.5-5.0mm without damaging.

No thrombosis of hepatic artery was observed in all 40 cases.