

Lifepearl loaded with doxorubicin - downstage a patient with HCC to reach liver transplant

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CLINICAL CASE

67 years old male with alcoholic related cirrhosis (abstinent in the last 2 years) and negative HBs antigen and anti-HCV antibody. An elevated level of serum liver enzymes (ALT, AST, ALP and GGT) was present and Child-Pugh score was A. He developed 2 hepatocellular carcinoma with 5.3 cm (IVa segment) and 3.8 cm (VI segment) beyond the Milan and up-to-seven criteria. Tumor board decision was to perform DEB-TACE as a downstaging therapy while waiting on the list of liver transplantation.

PROCEDURE

After local anesthesia of the skin and subcutaneous tissue, a 5F Simmons 2 catheter was placed through a 5 F introducer in the coeliac trunk. Angiography confirmed both lesions and all the feeding arteries were selectively catheterize and embolized by means of a microcatheter Progreat 2.7F.

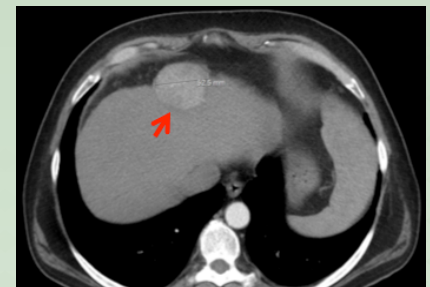
Four vials of LifePearl (200 µm), charged with 75 mg of doxorubicin each, were administered - two vial per lesion in two sessions scheduled with an interval of four weeks - until we got near stasis.

FOLLOW UP/ CONCLUSION

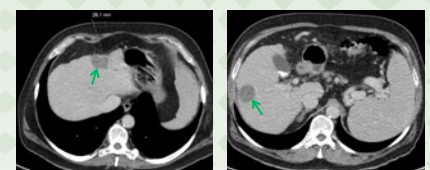
Follow-up CT scan performed 6 months after the procedure demonstrated a complete response with significant intralesional necrosis and shrinkage of both lesions (5.3 to 2.9 cm and 3.8 to 2.8 cm) and the patient became eligible for transplantation that was performed within 7 months after the DEB-TACE session.

PRODUCTS USED

LifePearl 8 mL of microspheres + 300 mg doxorubicin (2 sessions)
5F Simmons-2 catheter, 2.7 F progreat microcatheter and 0.021
GLIDEWIRE[®] GT Guidewire.



CT Images of Pre-TACE



Follow up CT Images

LifePearl[™] Microspheres are indicated for embolization of blood vessels supplying primary-hypervascular tumors or metastases in the liver.

Note: LifePearl[™] Microspheres can be loaded with chemotherapeutic drugs. When used for drug loading, drug loading should be done under a physician's direction, choice and responsibility, based on type and dose of drug most beneficial to the patient. MICROVENTION is a registered trademark of MicroVention, Inc. LifePearl is a trademark of Terumo, Inc.

<https://www.terumo-europe.com/en-emea/Treat-liver-cancer-with-Terumo-2018>

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