

Diffusion weighted imaging combined with dynamic contrast enhanced magnetic resonance imaging in diagnosis of Hepatocellular carcinoma.

Essay

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أعوذ بالله من الشيطان الرجيم

"قَالُوا سُبْحَانَكَ لَا عِلْمَ لَنَا إِلَّا مَا عَلَّمْتَنَا إِنَّكَ
أَنْتَ الْعَلِيمُ الْحَكِيمُ"

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To my

*Father's soul
Mum,
Husband,
Brother and sisters.*

For

*Their help,
Support,
Great care,
Encouragement,
And Continuous Push.*

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List of abbreviations

AASLD:	American Association for the Study of Liver Disease
ADC:	Apparent diffusion coefficient.
AFP:	Alpha Feto protein.
APF:	Arterio portal fistula.
BB-EPI:	Black-blood echo planar imaging.
CT:	Computed Tomography.
CHA	Common hepatic artery
DCE MRI:	Dynamic contrast enhanced magnetic resonance imaging.
DN:	Dysplastic nodule.
DWI:	Diffusion weighted Imaging.
EASL:	European Association for the Study of the Liver
ELT:	Echo train length.
EPI:	Echoplaner imaging.
FFE:	Fast Field Echo.
FLC	Fibrolamellar carcinoma
FSE:	Fast spin Echo
GA-HP	Gadoxetic acid enhanced hepatobiliary
Gd	Gadolinium
Gd- DTPA	Gadolinium-Diethylene Triamine Penta acetic Acid
Gd-BOPTA	Gadobenate dimeglumine
Gd-EOBDTPA	Gadolinium ethoxy-benzyl-diethylene-triamin-penta acetic acid
GRE:	Gradient echo.
HBV:	Hepatitis C Virus.
HCC:	Hepatocellular carcinoma.
HCV:	Hepatitis C Virus
HV	Hepatic vein
IT:	Injection time.
IVC	Inferior vena cava
MRI:	Magnetic resonance imaging.

NEX:	Number of excitations
NPV:	Negative predictive value.
OP:	Out of Phase.
PES:	Post embolization Syndrome.
PI:	Parallel Imaging.
RES	Reticuloendothelial system
RF:	Radiofrequency.
RN:	regeneration nodule.
ROI:	Region of Interest.
SE:	Spine Echo.
SI	Signal intensity
SNR:	Signal to noise ratio.
SPGR:	Spoiled gradient echo.
SPIO	Superparamagnetic iron oxide particle.
T	Tesla
TACE:	Transcatheter arterial chemoembolization.
TE:	Time of Echo.
TR:	Time of Repetition.
TTP:	time to peak aortic enhancement
US:	Ultrasound.
WI:	Weighted imaging.

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