Future Direction of Liver Transplantation

Kevork M Peltekian, MD, FRCPC

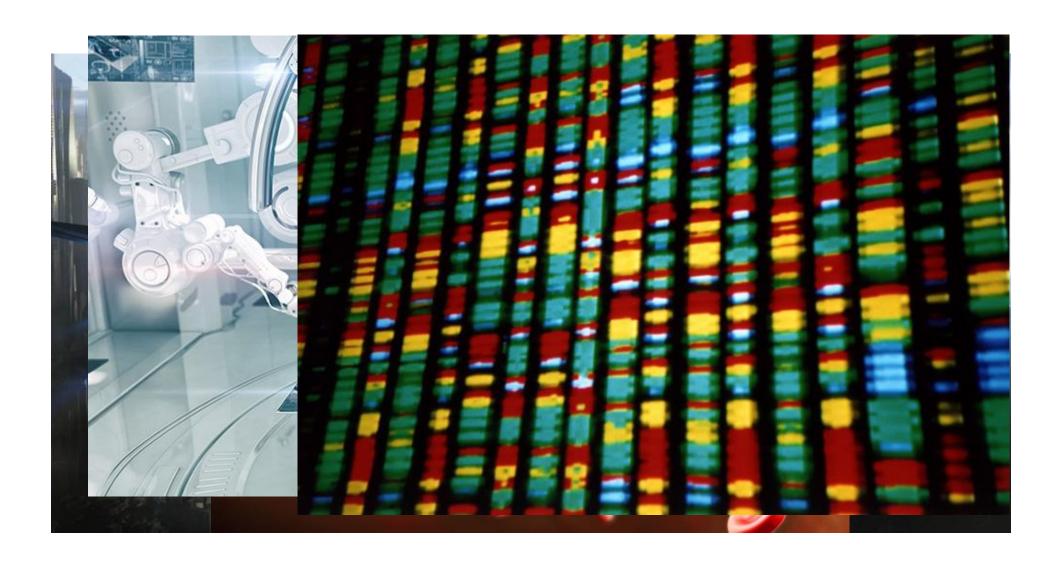
@LiverSensible

Transplant Atlantic November 4, 2016

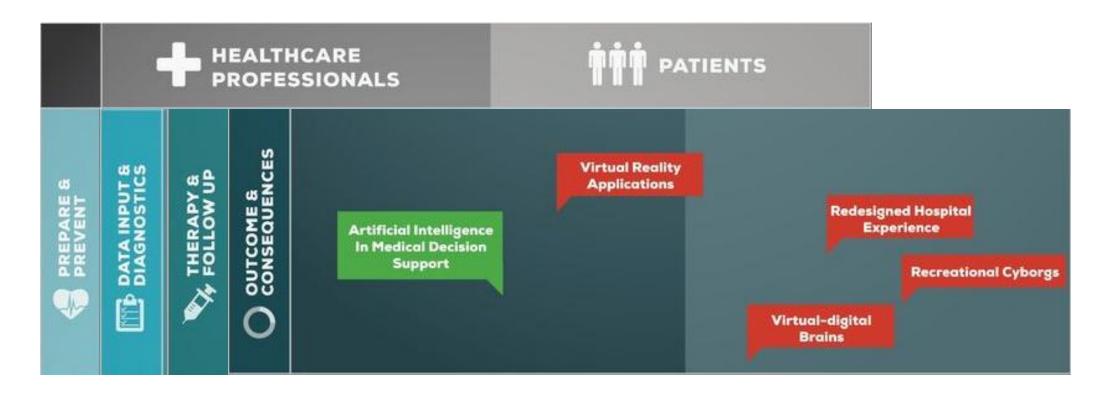
Learning Objectives of the Morning Sessions

- To discover the evolution of the Multi-Organ Transplant Program
- To gain knowledge of future innovations surrounding liver transplantation
- To have an increased understanding of new technologies related to kidney and heart transplantation

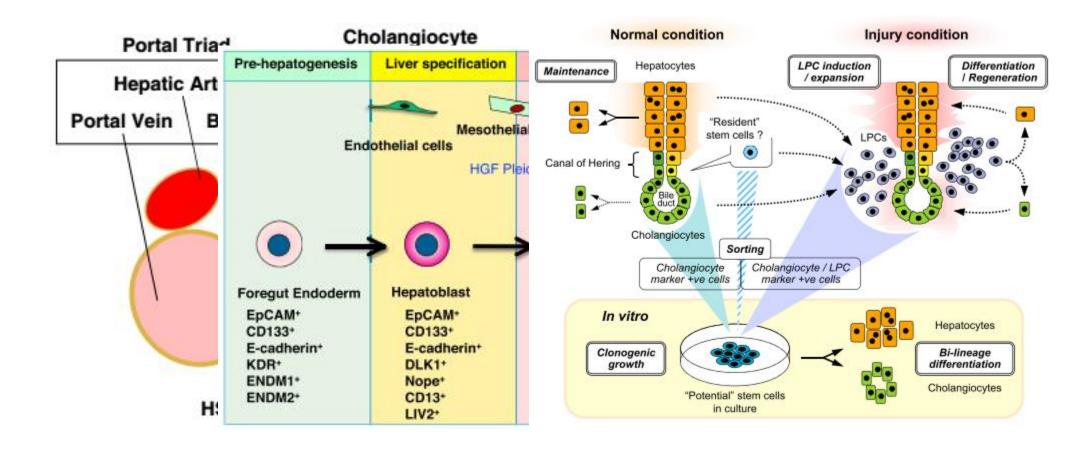
What I See In The Future



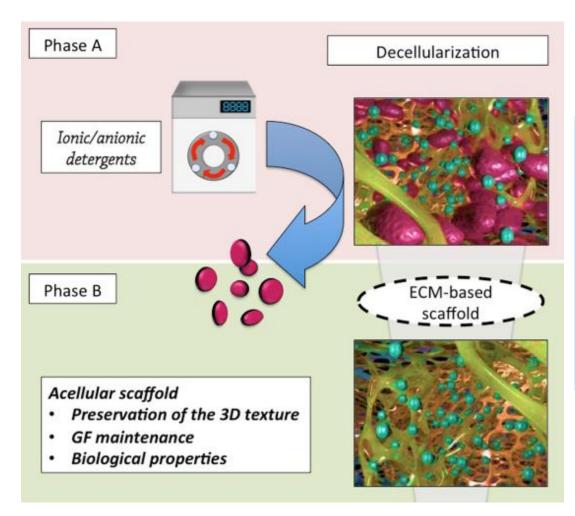
The Future of Medicine

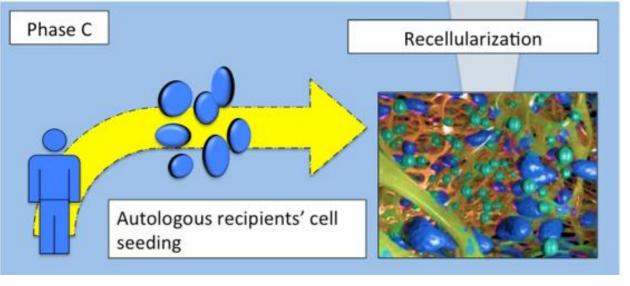


Stem/Progenitor Cells in Liver Development, Homeostasis, Regeneration, and Reprogramming



Current achievements and future perspectives in whole-organ bioengineering





Current Status of Hepatocyte Transplantation

TABLE 1. Liver conditions where hepatocyte transplantation has been used clinically

Inborn errors of metabolism

Crigler-Najjar syndrome type 1

Familial hypercholesterolemia

FVII deficiency

Glycogen storage disease type I

Infantile Refsum's disease

Progressive familial intrahepatic cholestasis type 2 PFIC2

Urea cycle defects

Ornithine transcarbamylase deficiency

Argininosuccinate lyase deficiency

Carbamoylphosphate synthase type 1 deficiency

Citrullinemia

Acute liver failure

Drug

Viral

Idiopathic

Mushroom poisoning

Postsurgical

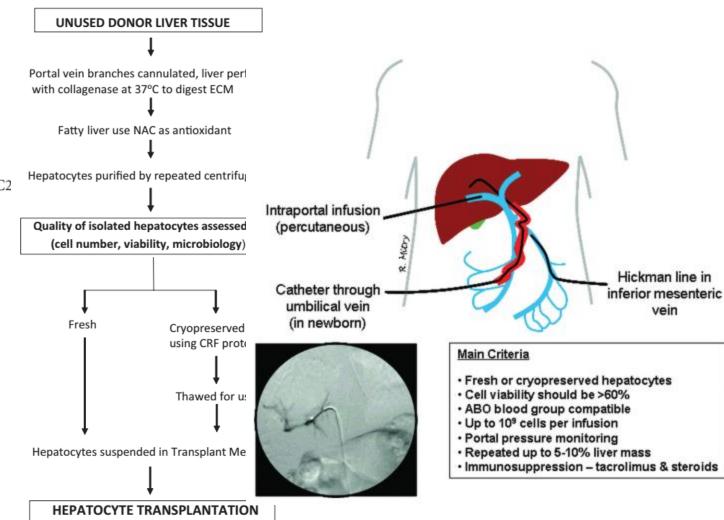
Acute fatty liver of pregnancy

Acute on chronic liver failure

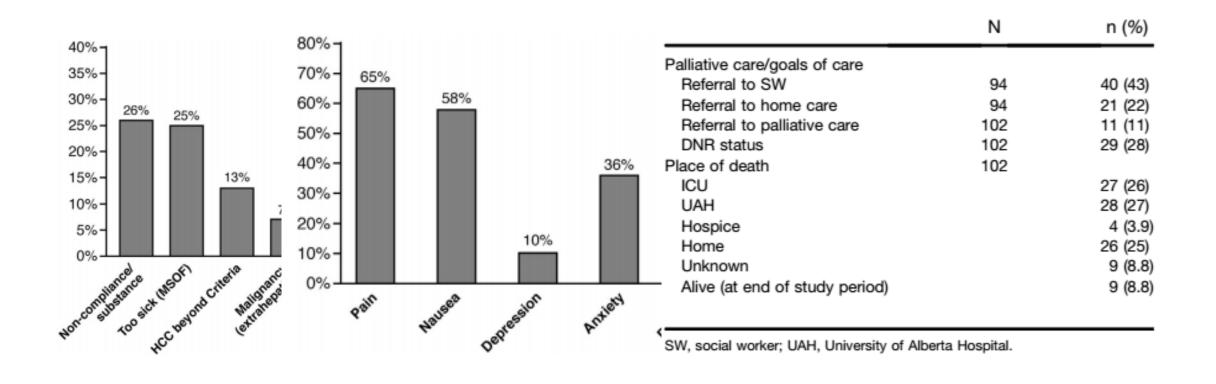
Alpha 1 antitrypsin deficiency

Viral

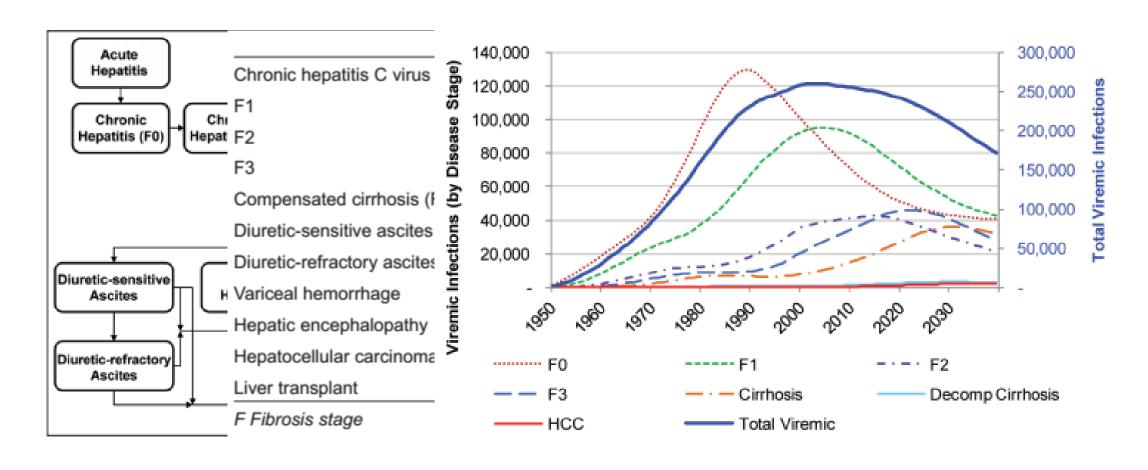
Alcohol



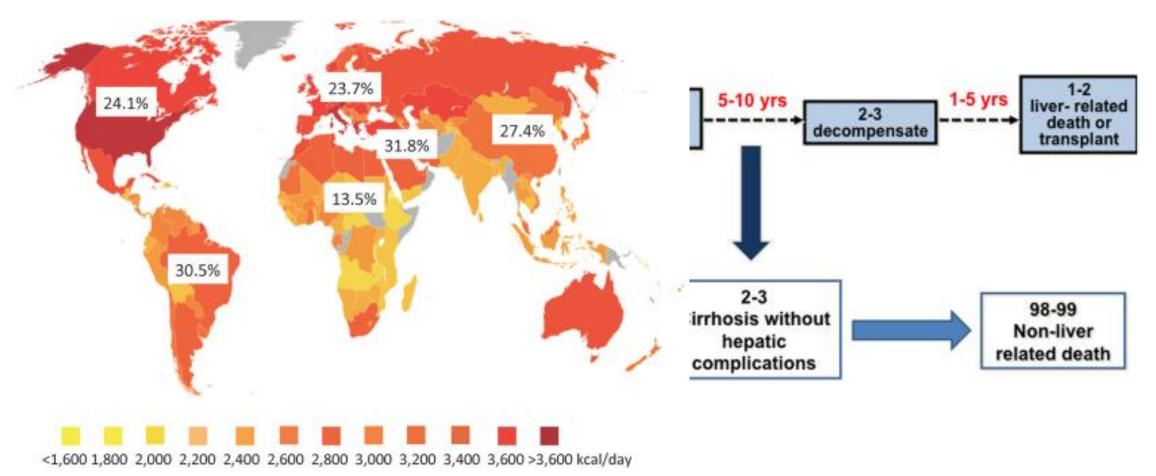
Patients With Cirrhosis and Denied Liver Transplants Rarely Receive Adequate Palliative Care



Burden of Disease and Cost of Chronic Hepatitis C Virus Infection in Canada



The Globalization of Fatty Liver Disease Prevalence and Impact on World Health



Questions



#CoffeeGoodForLiver

