DDW Wrap-Up: Liver 2013

Objectives

- 1. Obesity NAFLD
- 2. ALD

Obesity/NAFLD, metabolic endotoxemia overview

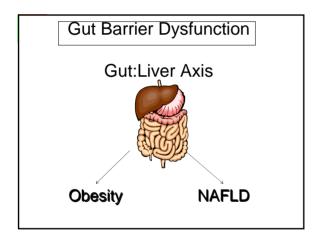


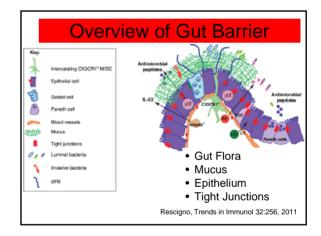
2/3 of U.S. Adults are overweight or obese

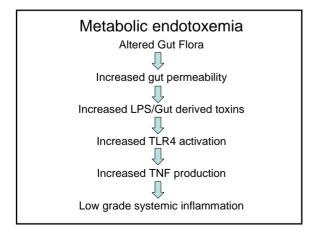
1/3 of U.S. Adults have NAFLD

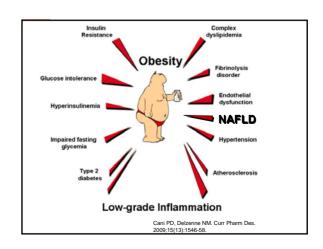
Obesity is a critical health problem in U.S.

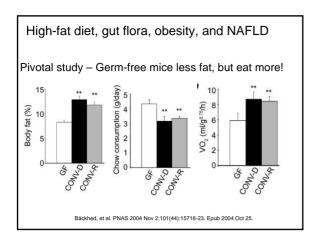
Vastag, Obesity Is Now on Everyone's Plate, JAMA 291:1186, 2004

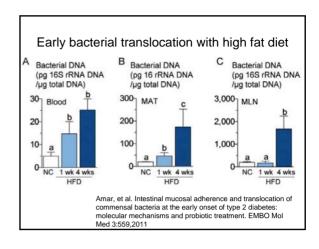


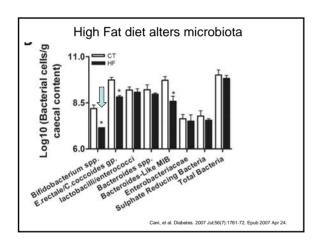


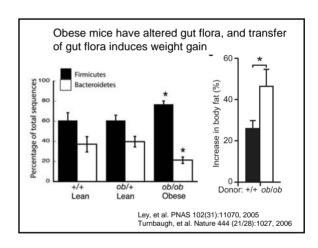


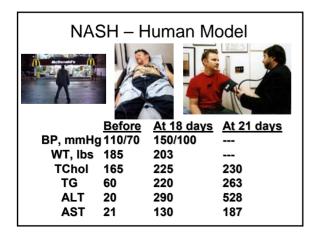


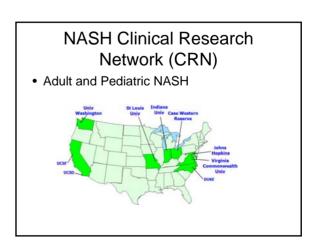








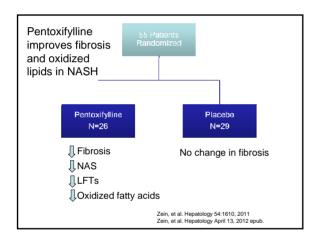




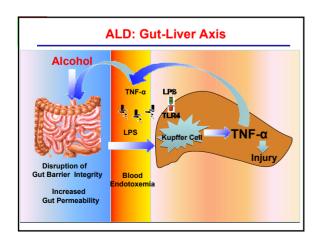
Pioglitazone, Vitamin E, or Placebo for Nonalcoholic Steatohepatitis • 247 adults with NASH -83 placebo -80 pioglitazone 30mg -84 Vitamin E 800 IU

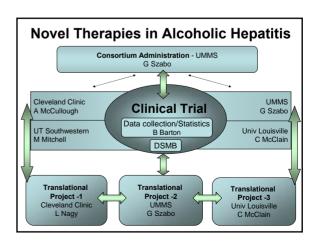
New Agents

- Pentoxifylline
- Probiotics
- Anti-LPS
- Bile Acid Transport Modulation









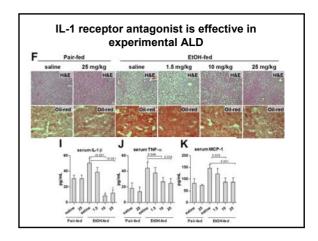
UO1 Clinical Trial Specific Aims

Aim 1: Evaluation of the effects of corticosteroids versus a combination of interleukin-1 inhibitor plus pentoxifylline plus zinc supplements in patients with MELD \geq 21.

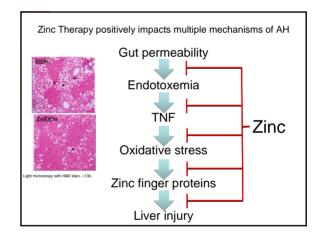
Aim 2: Evaluation of the effects of probiotic supplements versus standard care on improvement in MELD score and gut mucosal integrity in patients with MELD < 21.

Aim 3: Develop new clinical trials for patients with alcoholic hepatitis using lead compounds identified by the translational science components of the U-01 consortium.

Aim 4: Create a data and tissue biorepository

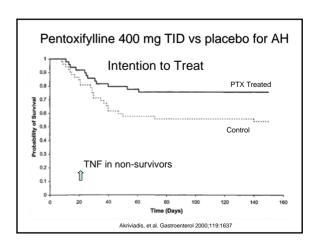


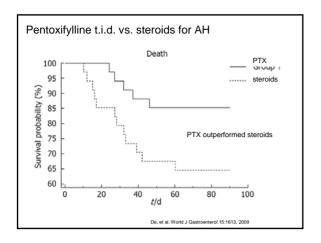
Zinc improves experimental ALD Total Serum ALT activities were measured using a Sigma Diagnostic kit. Significant differences (p<0.05) are identified by different letters.

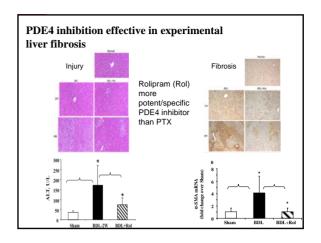


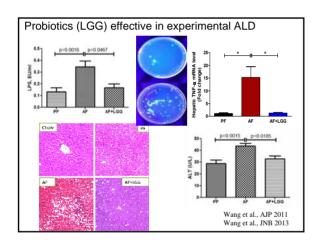
Pentoxifylline is a nonspecific phosphodiesterase
(PDE) inhibitor

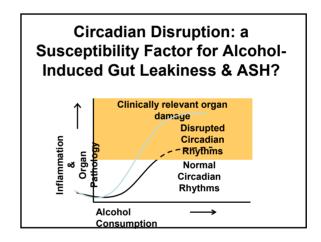
PDE4 inhibition → ↑CAMP→ ↑proinflammatory
cytokines

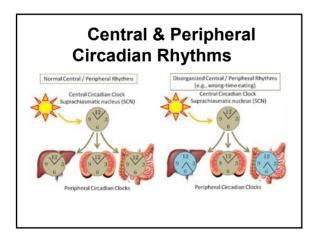


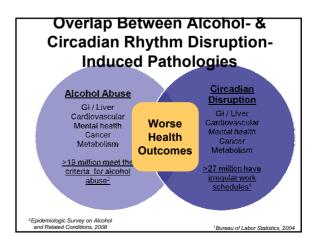




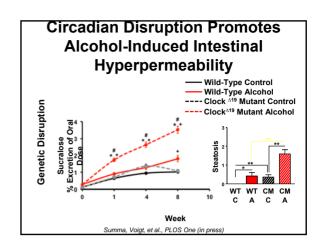


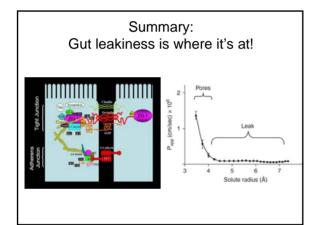












Questions?