WILEY Supplements More Likely than Medications to Lead to Death or Liver Transplantation

New research shows that liver injury caused by herbals and dietary supplements increased from 7% to 20% in a U.S. study group over a ten-year period. According to the study published in *Hepatology*, a journal of the American Association for the Study of Liver Diseases, liver injury caused by non-bodybuilding supplements is most severe, occurring more often in middle-aged women and more frequently resulting in death or the need for transplantation than liver injury from bodybuilding supplements or conventional medications."

Nearly half of all adult Americans consume herbal and dietary supplements with prior reports suggesting that is on the rise. Medical evidence shows that supplements are used more often by women, non-Hispanic whites, those over 40 years of age and those with more advanced education. Data from the National Health and Nutrition Examination Survey (NHANES) III indicate that multivitamins, minerals, calcium and fish oils are the most commonly used supplements.

Liver Injury Caused by Herbals, Dietary Supplements Rises in Study Population

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"While many Americans believe supplements to be safe, government regulations (Dietary Supplement Health and Education Act of 1994) require less safety evidence to market products than what is required for conventional pharmaceuticals" explains lead author Dr. Victor Navarro, from Einstein Medical Center Philadelphia. "With less stringent oversight for herbals and dietary supplements, there is greater potential for harmful consequences including life-threatening conditions."

In response to the need for research in this area, the National Institutes of Diabetes and Digestive and Kidney Liver Injury Caused by Herbals, Dietary Supplements Rises in Study Population

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Diseases (NIDDK) supported the establishment of the Drug-Induced Liver Injury Network (DILIN) in 2003 to track cases of liver injury caused by medications (excluding acetaminophen (Tylenol®)), herbals, and dietary supplements. Herbals and dietary supplements were identified as the second most common cause of liver injury in the first DILIN report.

The present study examines hepatotoxicity due to supplements compared to medications, enrolling 839 patients with liver injury from 8 U.S. DILIN referral centers between 2004 and 2013. Liver injury cases included

45 caused by bodybuilding supplements, 85 attributed to non-bodybuilding supplements, and 709 due to medications.

The research team determined that among cases enrolled, liver injuries from herbal and dietary supplements rose to 20% during the study period. While bodybuilding supplements caused prolonged jaundice (median 91 days) in young men, no fatalities or liver transplantations occurred. Death or liver transplantation occurred more frequently among cases of injury from non-bodybuilding supplements, 13%, than from conventional medications,

## 3%. Liver injury from non-bodybuilding supplements was more common in middle aged women.

Dr. Navarro said, "Our study group is specific to DILIN centers and therefore we cannot conclude that liver injury due to herbals and dietary supplements in on the rise in the U.S. Further population-based study of liver injury due to herbal products and dietary supplements is needed." The authors want to inform the public of potential dangers of using dietary supplements and advise that supplement producers, government agencies, healthcare providers and consumers work together Liver Injury Caused by Herbals, Dietary Supplements Rises in Study Population

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## to improve safety.