Liver Transplant at Dow University of Health Sciences (Duhs) Karachi, Pakistan

Keywords: Chronic liver; Acute; Morbidity; Mortality; Liver disease; Poor tolerance; Cardiopulmonary status; Frailty; Morbid obesity; Active infection; Active substance abuse; Poor psychosocial support system; Laboratory; Wait list; Crucial numbers; Candidacy

Abbreviations: LT: Liver Transplant; DUHS: Dow University of Health Sciences Karachi; NILGID: National Institute of Liver & GI Diseases

Mini Review

The evolution of liver transplant has come a long way since the 1980’s when it got internationally recognized as a viable treatment for end-stage liver disease. In 1963, Dr. Thomas Starzl and his team performed the first human liver transplant in the United States. However it was not until the 1980’s that the survival rates improved enough to consider liver transplantation a clinical treatment for acute and chronic liver failure, and not an experimental procedure. Roy Calne, a professor of surgery at Cambridge introduced cyclosporine in 1980s and observed an experimental procedure. The remaining large majority eventually succumbs to acute or chronic liver disease when medical therapy becomes refractory. With fewer restrictions on candidacy, the need to make liver transplantation accessible is even greater.

In Pakistan May 2016, Dow University of Health Sciences Karachi (DUHS) became the first public sector university to offer liver transplant facilities. Our team under supervision has done three consecutive living-donor liver transplants. Post-surgical recovery for all 3 recipients and their donors has been uneventful and they are recovering as per expected parameters. Our overseas mentor who supervised these procedures has successfully performed nearly 2000 liver transplants and has helped the DUHS team along with his other team members. We currently have three patients on the wait list, expecting transplantation in the following month.

Limited data indicates that prevalence of Hepatitis B carrier state and Hepatitis B past exposure is about 10% and 33% respectively amongst Pakistanis. These figures are unfortunately from the 1980’s and later data is at least not searchable on PubMed or Medline even if it exists. Local health bodies agree that actual figures in present time are expected to be drastically higher as risk factors for acquiring hepatitis B or C still prevail and may have worsened. Therefore it can be extrapolated that there is a significant percentage of patient population in need of evaluation for liver transplantation and presently only a limited few have the resources to travel outside Pakistan and afford liver transplant in other countries. The remaining large majority eventually succumbs to acute or chronic liver disease when medical therapy becomes refractory. With fewer restrictions on candidacy, the need to make liver transplantation accessible is even greater.

The most common indication for liver transplantation is viral hepatitis related liver failure, mainly chronic or end-stage. Hepatitis C is the most frequent prevalent culprit. Reliable data on epidemiology of liver disease and its etiologies is from the western hemisphere. Pakistan is particularly lagging behind in collecting basic data on incidence and prevalence of diseases as well as associated mortality rates. This area needs urgent attention as without these crucial numbers, the scope of the problem cannot be defined well and therefore problem-solving efforts will remain inferential.

Published: March 09, 2017

Volume 3 Issue 1 - 2017

Khawar S Jamali*

Pro-Vice Chancellor, Dow University of Health Sciences (DUHS), Pakistan

*Corresponding author: Khawar S Jamali, Dow University Of Health Sciences (DUHS) Karachi, Pakistan, Email: pro-vc@duhs.edu.pk

Received: July 31, 2016
The other facility catering to the liver and GI related ailments was National Institute of Liver & GI Diseases (NILGID). It is functioning since Sept 2010 and daily more than 100 patients are seen in the OPD. Seriously ill patients are admitted to the hospital with availability of intensive care unit. There are two endoscopy suites performing regular and specialized diagnostic and therapeutic procedures. This institute also provides ultrasound guided liver & GI interventions. Radio frequency ablation is available to treat liver and metastatic malignancies. Emergency services for upper or lower gastrointestinal cases are also available round the clock [1-5].

Moreover DUHS is doing its duty to increase public awareness of liver diseases as well as living and cadaveric organ donation. With an expectant large waiting list, development of the services depends on the availability of trained professionals including surgeons and support staff for which places like our unit, which although new and novice, has been built on strong foundations and matches international standards. We now need sincere international collaboration and support from world renowned liver transplantation centers for growth and improvement so we can provide even better patient care.

References