



## XIII NATIONAL MEETING OF THE MEXICAN ASSOCIATION OF HEPATOLOGY

June 13-16, 2018. Cancun, Quintana Roo, Mexico  
Hotel Gran Fiesta Americana Coral Beach

### I. MOLECULAR AND CELLULAR BIOLOGY

#### 11 ORAL GLOBAL TRANSCRIPTOMIC CHANGES INDUCED BY GROWTH DIFFERENTIATION FACTOR 11 IN HUMAN HEPATOCELLULAR CARCINOMA CELLS

GERARDO-RAMÍREZ M,\* SIMONI-NIEVES A,\*  
MARQUARDT JU,\*\* CASTELLANOS-TAPIA L,\*\*\*  
TEJERO-BARRERA ME,\*\*\* GARCÍA-RUIZ C,\*\*\*\*  
FERNÁNDEZ-CHECA JC,\*\*\*\* GUTIÉRREZ-RUIZ MC,\*  
GÓMEZ-QUIROZ LE\*

\* POSGRADO EN BIOLOGÍA EXPERIMENTAL, DCBS, UNIVERSIDAD  
AUTÓNOMA METROPOLITANA-I, MÉXICO. DEPARTAMENTO CIENCIAS DE LA  
SALUD, UNIVERSIDAD AUTÓNOMA METROPOLITANA-I, MEXICO CITY,  
MEXICO.

\*\* DEPARTMENT OF MEDICINE I, JOHANNES GUTENBERG UNIVERSITY,  
MAINZ, ALEMANIA.

\*\*\* LABORATORIO DE NUTRIGENÓMICA, INSTITUTO NACIONAL DE MEDICINA  
GENÓMICA, MEXICO CITY, MEXICO.

\*\*\*\* DEPARTMENT OF CELL DEATH AND PROLIFERATION, INSTITUTO DE  
INVESTIGACIONES BIOMÉDICAS DE BARCELONA, CSIC; LIVER UNIT,  
HOSPITAL CLINIC, IDIBPAS AND CIBEREHD, BARCELONA, ESPAÑA.

#### 14 CARTEL SERUM LEVELS OF INSULIN-LIKE GROWTH FACTOR BINDING PROTEINS (IGFBP) 1 AND 2 DURING BILE DUCT LIGATION (BDL) IN A MURINE MODEL

BAUTISTA-UBALDO MG,\* ARÉVALO-SÁNCHEZ TA,\*  
RAMÍREZ-MENDOZA A,\* GARCÍA-REBOLLAR J,\*\*  
DÍAZ-HERRERA G,\*\* KERSHENOBICH D,\*\*\*  
GUTIÉRREZ-REYES G,\* GUZMÁN C\*

\* LABORATORIO DE HÍGADO, PÁNCREAS Y MOTILIDAD, UNIDAD DE  
MEDICINA EXPERIMENTAL, FACULTAD DE MEDICINA, UNAM/HOSPITAL  
GENERAL DE MÉXICO. MEXICO CITY, MEXICO.

\*\* INSTITUTO DE INVESTIGACIONES BIOMÉDICAS, UNIDAD DE MODELOS  
BIOLÓGICOS, UNAM. MEXICO CITY, MEXICO.

\*\*\* INSTITUTO NACIONAL DE CIENCIAS MÉDICAS Y NUTRICIÓN "SALVADOR  
ZUBIRÁN." MEXICO CITY, MEXICO.

#### 15 ORAL SERUM LEVELS OF INSULIN-LIKE GROWTH FACTOR-BINDING PROTEINS (IGFBP) 2 AND 7 IN A MURINE MODEL OF HEPATIC FIBROSIS INDUCED BY THIOACETAMIDE (TAA)

BAUTISTA-UBALDO MG,\* ARÉVALO-SÁNCHEZ TA,\*  
RAMÍREZ-MENDOZA A,\* KERSHENOBICH D,\*\*  
GUTIÉRREZ-REYES G,\* GUZMÁN C\*

\* LABORATORIO DE HÍGADO, PÁNCREAS Y MOTILIDAD, UNIDAD DE  
MEDICINA EXPERIMENTAL, FACULTAD DE MEDICINA, UNAM/HOSPITAL  
GENERAL DE MÉXICO. MEXICO CITY, MEXICO.

\*\* INSTITUTO NACIONAL DE CIENCIAS MÉDICAS Y NUTRICIÓN "SALVADOR  
ZUBIRÁN", MEXICO CITY, MEXICO.

#### 27 CARTEL ACUTE HEPATIC TOXICITY CAUSED BY SEVEN EXTRACTS OF HERBAL ORIGIN IN AN EXPERIMENTAL MODEL

ORTIZ-OLVERA NX, BRIZ-SÁNCHEZ MC, MENDOZA-RAMÍREZ J,  
GÓMEZ JIMÉNEZ LM, CALZADA-BERMEJO F  
DEPARTMENT OF GASTROENTEROLOGY, PATHOLOGY AND LABORATORY  
OF PHARMACOLOGY RESEARCH CORCE, UMAE HOSPITAL DE  
ESPECIALIDADES CMN SIGLO XXI, IMSS. MEXICO CITY, MEXICO.

#### 38 ORAL THE DELETION OF ANTIAPOPTOTIC MCL-1 ISOFORM GENERATES AN INCREMENT IN ENERGETIC METABOLISM OF CELLS DERIVED FROM HUMAN HEPATOCARCINOMA WITH CHOLESTEROL OVERLOAD

GONZÁLEZ-RUIZ J,\*†‡§ VERGARA-MENDOZA M,\*†‡§  
HERNÁNDEZ-RIZO S,\*†‡§ VIVEROS-ROGEL M,§  
MIRANDA-LABRA R,\* GUTIÉRREZ-RUIZ M,\*  
COULOUARN CÉDRIC,|| GÓMEZ-QUIROZ L\*

\* DEPARTAMENTO DE CIENCIAS DE LA SALUD, UNIVERSIDAD AUTÓNOMA  
METROPOLITANA-I, MEXICO CITY, MEXICO.

† POSGRADO EN BIOLOGÍA EXPERIMENTAL, DCBS, MEXICO CITY, MEXICO.

‡ LABORATORIO DE MEDICINA EXPERIMENTAL, UNIDAD DE MEDICINA  
TRANSLACIONAL, INSTITUTO DE INVESTIGACIONES BIOMÉDICAS, UNAM/  
INSTITUTO NACIONAL DE CARDIOLOGÍA "IGNACIO CHÁVEZ", MEXICO CITY,  
MEXICO.

§ VIROLOGÍA MOLECULAR, DEPARTAMENTO DE INFECTOLOGÍA, INSTITUTO  
NACIONAL DE CIENCIAS MÉDICAS Y NUTRICIÓN "SALVADOR ZUBIRÁN".  
MEXICO CITY, MEXICO.

|| INSERM, UMR991, LIVER METABOLISMS AND CANCER, F-35033, UNIVERSITY  
OF RENNES 1, F-35043 RENNES, FRANCE.

**39 CARTEL**  
**GROWTH DIFFERENTIATION FACTOR 11 (GDF11)**  
**RESTRICTS CELL PROLIFERATION IN HEPATIC**  
**TUMOR CELLS THROUGH GLUCOLYSIS AND LIPID**  
**METABOLISM**

HERNÁNDEZ-RIZO S,<sup>\*,\*\*,\*</sup> GERARDO-RAMÍREZ M,<sup>\*,\*\*,\*</sup>  
 GONZÁLEZ-RUIZ J,<sup>\*,\*\*,\*</sup> FUCHO R,<sup>\*\*\*\*</sup>  
 PÉREZ-AGUILAR B,<sup>\*,\*\*,\*</sup> GÓMEZ-QUIROZ LE,<sup>\*,\*\*,\*</sup>  
 FERNÁNDEZ-CHECA JC,<sup>\*\*\*\*</sup>  
 GARCÍA-RUIZ MC,<sup>\*\*\*\*</sup> GUTIÉRREZ-RUIZ MC<sup>\*,\*\*,\*</sup>  
<sup>\*</sup> DEPARTAMENTO DE CIENCIAS DE LA SALUD, UNIVERSIDAD AUTÓNOMA  
 METROPOLITANA-I, MEXICO.  
<sup>\*\*</sup> POSGRADO EN BIOLOGÍA EXPERIMENTAL, DCBS, MEXICO.  
<sup>\*\*\*</sup> LABORATORIO DE MEDICINA EXPERIMENTAL, UNIDAD DE MEDICINA  
 TRANSLACIONAL, INSTITUTO DE INVESTIGACIONES BIOMÉDICAS, UNAM/  
 INSTITUTO NACIONAL DE CARDIOLOGÍA "IGNACIO CHÁVEZ", MÉXICO.  
<sup>\*\*\*\*</sup> DEPARTMENT OF CELL DEATH AND PROLIFERATION, INSTITUTO DE  
 INVESTIGACIONES BIOMÉDICAS DE BARCELONA, CSIC; LIVER UNIT,  
 HOSPITAL CLINIC, IDIBPAS AND CIBEREHD, BARCELONA, SPAIN.

**44 CARTEL**  
**ROLE OF DOXAZOSINE AND CARVEDILOL IN**  
**CELLULAR REGENERATION IN A REVERSION**  
**MODEL OF LIVER CIRRHOSIS IN HAMSTER**

NAVARRO-GONZÁLEZ YD, MUÑOZ-ORTEGA MH,  
 VENTURA-JUÁREZ J, CERVANTES-GARCÍA D  
 DEPARTAMENTO DE CIENCIAS BÁSICAS, UNIVERSIDAD AUTÓNOMA DE  
 AGUASCALIENTES. AGUASCALIENTES, AGUASCALIENTES. MEXICO.

**54 CARTEL**  
**NON-ALCOHOLIC FATTY LIVER DISEASE**  
**PROGRESSION AND ASSOCIATION WITH**  
**CELLULAR SENESCENCE IN AN EXPERIMENTAL**  
**MURINE MODEL**

CAMPOS-ESPINOSA A,<sup>\*</sup> ROMERO-BELLO II,<sup>\*</sup>  
 KERSHENOBICH D,<sup>\*\*</sup> GUTIÉRREZ-REYES G,<sup>\*\*</sup> GUZMÁN C<sup>\*</sup>  
<sup>\*</sup> LABORATORIO DE HÍGADO, PÁNCREAS Y MOTILIDAD, UNIDAD DE  
 MEDICINA EXPERIMENTAL, FACULTAD DE MEDICINA, UNAM/HOSPITAL  
 GENERAL DE MÉXICO, MEXICO CITY, MEXICO.  
<sup>\*\*</sup> INSTITUTO NACIONAL DE CIENCIAS MÉDICAS Y NUTRICIÓN "SALVADOR  
 ZUBIRÁN", MEXICO CITY, MEXICO.

**55 CARTEL**  
**ASSESSMENT OF INSULIN-LIKE GROWTH FACTOR**  
**BINDING PROTEINS (IGFBP) 1 AND 7 IN AN**  
**EXPERIMENTAL MODEL OF NON-ALCOHOLIC**  
**FATTY LIVER DISEASE**

ROMERO-BELLO II,<sup>\*</sup> CAMPOS-ESPINOSA A,<sup>\*</sup>  
 MORENO-GONZÁLEZ J,<sup>\*</sup> KERSHENOBICH D,<sup>\*\*</sup>  
 GUTIÉRREZ-REYES G,<sup>\*</sup> GUZMÁN C<sup>\*</sup>  
<sup>\*</sup> LABORATORIO DE HÍGADO, PÁNCREAS Y MOTILIDAD, UNIDAD DE  
 MEDICINA EXPERIMENTAL, FACULTAD DE MEDICINA, UNAM/HOSPITAL  
 GENERAL DE MÉXICO, MEXICO CITY, MEXICO.  
<sup>\*\*</sup> INSTITUTO NACIONAL DE CIENCIAS MÉDICAS Y NUTRICIÓN "SALVADOR  
 ZUBIRÁN", MEXICO CITY, MEXICO.

**56 CARTEL**  
**ASSESSMENT OF RETICULAR FIBERS AND FAT IN**  
**THE LIVER OF A MURINE MODEL OF INTERACTION**  
**OF HIGH-FAT DIET AND ETHANOL INTAKE**

RAMÍREZ-MENDOZA A,<sup>\*</sup> CAMPOS ESPINOZA A,<sup>\*</sup>  
 GALICIA-MORENO M,<sup>\*</sup> ARÉVALO-SÁNCHEZ T,<sup>\*</sup>  
 LEÓN-MANCILLA B,<sup>\*</sup> MEDINA-ÁVILA Z,<sup>\*</sup> ROSIQUE-ORAMAS D,<sup>\*</sup>  
 PÉREZ-TORRES A,<sup>\*\*</sup> GUZMÁN C,<sup>\*</sup> GUTIÉRREZ-REYES G<sup>\*</sup>  
<sup>\*</sup> LABORATORIO DE HÍGADO, PÁNCREAS Y MOTILIDAD, UNIDAD DE  
 MEDICINA EXPERIMENTAL, FACULTAD DE MEDICINA, UNAM/HOSPITAL  
 GENERAL DE MÉXICO, MEXICO CITY, MEXICO. <sup>\*\*</sup> FSIPYM DEPTO. BIOLOGÍA  
 CELULAR Y TISULAR FACULTAD DE MEDICINA, UNAM. MEXICO CITY,  
 MEXICO.

**58 CARTEL**  
**ACETYLSALICILIC ACID AS A POSSIBLE**  
**THERAPEUTIC OPTION IN THE TREATMENT OF**  
**HEPATIC FIBROSIS**

LOERA-RAMOS J, MARTÍNEZ-CORONILLA G,  
 GALICIA-MORENO M, ARAUZ-CABRERA J  
 DEPARTAMENTO DE FARMACOLOGÍA, FACULTAD DE MEDICINA,  
 UNIVERSIDAD AUTÓNOMA DE BAJA CALIFORNIA, MEXICALI, BAJA  
 CALIFORNIA, MEXICO.

**59 ORAL**  
**EFFICIENT DELIVERY OF SHRNA TO HEPATIC CELLS**  
**AND THEIR INHIBITORY EFFECT ON THE**  
**EXPRESSION OF IFNRI AND ON ADENOVIRUS**  
**TRANSDUCTION**

GUERRERO-RODRÍGUEZ J, ARMENDÁRIZ BORUNDA J,  
 SANDOVAL-RODRÍGUEZ A, GARCÍA-BAÑUELOS J,  
 LUCANO-LANDEROS S, SALAZAR-MONTES A  
 INSTITUTO DE BIOLOGÍA MOLECULAR EN MEDICINA Y TERAPIA GÉNICA,  
 CUCS, UDEG. GUADALAJARA, JALISCO, MEXICO.

**67 CARTEL**  
**S-ADENOSYL METHIONINE (SAM) REGULATES**  
**TRANSCRIPTIONAL EXPRESSION OF GENES**  
**INVOLVED IN ENDOPLASMIC RETICULUM AND**  
**MITOCHONDRIAL STRESS DURING HCV INFECTION**

LOZANO-SEPÚLVEDA SA, SALAS-VILLALOBOS TB,  
 CAMACHO-MORALES A, RIVAS-ESTILLA AM  
 DEPARTAMENTO DE BIOQUÍMICA Y MEDICINA MOLECULAR, FACULTAD DE  
 MEDICINA, UNIVERSIDAD AUTÓNOMA DE NUEVO LEÓN, MONTERREY,  
 NUEVO LEÓN, MEXICO.

**68 CARTEL**  
**INTERACTION AND INTERCELLULAR**  
**COMMUNICATION BETWEEN HEPATOCYTES AND**  
**HEPATIC STELLATE CELLS IN HEPATIC**  
**FIBROGENESIS CONTEXT INDUCED BY HCV**

SALAS-VILLALOBOS TB,  
 LOZANO-SEPÚLVEDA SA, RIVAS-ESTILLA AM  
 FACULTAD DE MEDICINA, UNIVERSIDAD AUTÓNOMA DE NUEVO LEÓN,  
 MONTERREY, NUEVO LEÓN, MEXICO.

### 86 CARTEL

#### HBsAg C107R MUTANT IMPAIRS THE SEROLOGIC DIAGNOSIS BUT NOT THE VIRAL REPLICATION

SÁNCHEZ-OROZCO LV,\* FEUSTEL S,\*  
BARRIENTOS-SALCEDO C,\*\* AYÓN-PÉREZ MF,\*  
GÓMEZ-MEDA B,\* SÁNCHEZ-PARADA MG,\*\*\*  
GARCÍA-BAÑUELOS J,\* ARMENDÁRIZ-BORUNDA J\*  
\* INSTITUTO DE BIOLOGÍA MOLECULAR EN MEDICINA. CENTRO  
UNIVERSITARIO DE CIENCIAS DE LA SALUD, UNIVERSIDAD DE  
GUADALAJARA. GUADALAJARA, JAL. MEXICO.  
\*\* LAB. QUÍMICA MÉDICA Y QUIMIOMIOMÓDICA, FAC. BIOANÁLISIS,  
UNIVERSIDAD VERACRUZANA. VERACRUZ, VER. MEXICO.  
\*\*\* DEPARTAMENTO DE CIENCIAS BIOMÉDICAS, CENTRO UNIVERSITARIO  
DE TONALÁ, UNIVERSIDAD DE GUADALAJARA. GUADALAJARA, JAL. MEXICO.

### 77 CARTEL

#### CHARACTERIZATION OF THE OXIDATIVE DAMAGE IN THE LIVER OF MICE FED WITH DIFFERENT NAFLD-INDUCED DIETS

PEDRAZA I,\*† SIMONI-NIEVES A,\*† BUCIO L,\* SOUZA V,\*  
MIRANDA-LABRA RU,\* GUTIÉRREZ-RUIZ MC,\* COULOARN C,‡  
CALVISI DF,§ MARQUARDT JU,|| COULOARN CÉDRIC,†  
GÓMEZQUIROZ LE\*  
\* DEPARTAMENTO CIENCIAS DE LA SALUD, UNIVERSIDAD AUTÓNOMA  
METROPOLITANA-I. MEXICO. MEXICO CITY, MEXICO.  
† POSGRADO EN BIOLOGÍA EXPERIMENTAL, CBS. MEXICO. MEXICO CITY,  
MEXICO.  
‡ INSERM, UMR991, LIVER METABOLISMS AND CANCER, RENNES, FRANCE.  
§ INSTITUTE OF PATHOLOGY, UNIVERSITY OF GREIFSWALD, GREIFSWALD,  
GERMANY.  
|| DEPARTMENT OF MEDICINE I, JOHANNES GUTENBERG UNIVERSITY,  
MAINZ, GERMANY.  
† INSERM, UMR991, LIVER METABOLISMS AND CANCER, F-35033,  
UNIVERSITY OF RENNES 1, F-35043 RENNES, FRANCE.

### 80 CARTEL

#### MICROBIOME ALTERATIONS IN THE COLON AND MESENTERIC LYMPH NODES ARE ASSOCIATED WITH AN IMBALANCE OF IMMUNE RESPONSE AND BACTERIAL TRANSLOCATION IN EXPERIMENTAL CHOLESTASIS

VEGA-MAGAÑA AN,\*† GARCÍA-BENAVIDES L,§  
DEL TORO-ARREOLA S,\* DELGADO-RIZO V,||  
ZEPEDA-NUÑO S,‡ PEÑA-RODRÍGUEZ M,\* BUENO-TOPETE MR\*  
\* INSTITUTO DE INVESTIGACIÓN EN ENFERMEDADES CRÓNICO-  
DEGENERATIVAS, CUCS, UDG, MEXICO.  
† INSTITUTO DE INVESTIGACIÓN EN INMUNODEFICIENCIAS Y VIH. CUCS,  
UDG, MEXICO.  
‡ LABORATORIO DE PATOLOGÍA, DEPARTAMENTO DE MICROBIOLOGÍA Y  
PATOLOGÍA, CUCS, UDG, MEXICO.  
§ DEPARTAMENTO DE CIENCIAS BIOMÉDICAS, CUTONALÁ, UDG, MEXICO.  
|| LABORATORIO DE INMUNOLOGÍA, CUCS, UDG, MEXICO.

### 85 CARTEL

#### INTERFERON $\beta$ 1a TREATMENT *IN VITRO* ONLY HAS A MILD RESPONSE IN HBV-GENOTYPE A, GENOTYPES C AND H ARE NO-RESPONDERS

SÁNCHEZ-OROZCO LV, FEUSTEL S, AYÓN-PÉREZ MF,  
CAMPOS-VALDEZ M, VERA-CRUZ JM, ARMENDÁRIZ-BORUNDA J  
INSTITUTO DE BIOLOGÍA MOLECULAR EN MEDICINA. CENTRO  
UNIVERSITARIO DE CIENCIAS DE LA SALUD, UNIVERSIDAD DE  
GUADALAJARA. GUADALAJARA, JALISCO, MÉXICO.

### 92 CARTEL

#### OBTAINMENT OF A 3D SCAFFOLD FROM AN EXTRACELLULAR LIVER MATRIX OF WISTAR RAT BY DECELLULARIZATION

MORALES-GUERRERO NA, HERNÁNDEZ-MONTIEL HL,  
SOLÍS-SAINZ JC, HERNÁNDEZ-CHAN NG,  
TAPIA-GARCÍA JA, MENDIOLA-GÓMEZ T, NIÑO-ÁVILA AG  
NERVOUS SYSTEM CLINIC, MASTER IN NEUROMETABOLISM SCIENCES,  
DEPARTMENT OF BIOMEDICAL RESEARCH, SCHOOL OF MEDICINE,  
AUTONOMOUS UNIVERSITY OF QUERETARO, QUERETARO, MEXICO.

### 128 CARTEL

#### THE ROLE OF MIR-149-3P ON THE MODULATION OF TGF- $\beta$ RESPONSE PATHWAYS IN HEPATIC CELLS

YOCUPICIO-MONROY M,\* PÉREZ-FRANCO G,\*  
RODRÍGUEZ-PERALTA V,\* DEL ÁNGEL-NÚÑEZ R,\*\*  
ALCARAZ-ESTRADA S\*\*\*  
\* POSGRADO EN CIENCIAS GENÓMICAS, UNIVERSIDAD AUTÓNOMA DE LA  
CIUDAD DE MÉXICO. MEXICO CITY, MEXICO.  
\*\* DEPARTAMENTO DE INFECCIONICA Y PATOGÉNESIS MOLECULAR,  
CINVESTAV-IPN. MEXICO CITY, MEXICO.  
\*\*\* DIVISIÓN DE MEDICINA GENÓMICA, CENTRO MÉDICO NACIONAL "20 DE  
NOVIEMBRE", ISSSTE. MEXICO CITY, MEXICO.

### 65 ORAL

#### THEORETICAL STRATEGY TO REVERT THE HEPATIC FIBROSIS USING AN ADMMP8 VECTOR ADMINISTERED IN MUSCLE

GARCÍA-BAÑUELOS J,\* OCEGUERA-CONTRERAS E,\*  
GORDILLO-BASTIDAS D,\*\*\* SANDOVAL-RODRÍGUEZ A,\*  
BASTIDAS-RAMÍREZ B,\*\* GÓMEZ-MEDA B,\*  
SALAZAR-MONTES A,\* SÁNCHEZ-OROZCO L,\*  
VERA-CRUZ J,\* ARMENDÁRIZ-BORUNDA J\*,\*\*\*\*  
\* INSTITUTO DE BIOLOGÍA MOLECULAR EN MEDICINA, CUCS, UNIVERSIDAD  
DE GUADALAJARA, GUADALAJARA, JALISCO. MÉXICO.  
\*\* INSTITUTO DE INVESTIGACIÓN EN ENFERMEDADES CRÓNICO-  
DEGENERATIVAS, CUCS, UNIVERSIDAD DE GUADALAJARA, GUADALAJARA,  
JALISCO. MÉXICO.  
\*\*\* TECNOLÓGICO DE MONTERREY, GUADALAJARA, JALISCO, MÉXICO.  
\*\*\*\*

### 73 CARTEL

#### COMPARISON OF THE EXPRESSION OF THE TRANSCRIPTION FACTORS FOXC1 AND SNAI1 IN THE HUH7 AND HUH7 REPLICON CELL LINES

ESTRADA-CÁRDENAS AG, CAMACHO-MORALES A,  
RIVAS-ESTILLA AM  
FACULTAD DE MEDICINA, UNIVERSIDAD AUTÓNOMA DE NUEVO LEÓN,  
MONTERREY, NL, MEXICO.

**06 CARTEL**  
**CHARACTERIZATION OF A DIETILNITROSAMINE-INDUCED HEPATOCARCINOGENESIS MOUSE MODEL: A TOOL FOR THE STUDY OF THE SYNERGIC EFFECT OF DIFFERENT HEPATOTOXIC AGENTS**

FUENTES-HERNÁNDEZ S,\* PÉREZ-HERNÁNDEZ JL,\*\*  
 ALARCÓN-SÁNCHEZ BR,\* MARTÍNEZ-AGUILAR KE,\*  
 MONTES-APARICIO A,\* APARICIO-BAUTISTA DI,\*  
 ROSAS-MADRIGAL S,\* HIGUERA-DE-LA-TIJERA F,\*\*  
 MANJARRÉZ-MARTÍNEZ DA,\*\*  
 PÉREZ-SOTO F,\*\* VILLA-TREVIÑO S,\*\*  
 PÉREZ-CARRIÓN JI,\* ARELLANES-ROBLEDO J\*\*\*\*  
 \* LABORATORIO DE ENFERMEDADES HEPÁTICAS, INSTITUTO NACIONAL DE MEDICINA GENÓMICA (INMEGEN). MEXICO CITY, MEXICO.  
 \*\* DEPARTAMENTO DE BIOLOGÍA CELULAR, CENTRO DE INVESTIGACIÓN Y DE ESTUDIOS AVANZADOS, INSTITUTO POLITÉCNICO NACIONAL. MEXICO CITY, MEXICO.  
 \*\*\* SERVICIO DE GASTROENTEROLOGÍA, HOSPITAL GENERAL DE MÉXICO "DR. EDUARDO LICEAGA". MEXICO CITY, MEXICO.  
 \*\*\*\* LABORATORIO DE ENFERMEDADES HEPÁTICAS, CÁTEDRAS CONACYT-INMEGEN. MEXICO CITY, MEXICO.

**II. CIRRHOSIS AND ITS COMPLICATIONS**

**01 CARTEL**  
**UNCONTROLLED GLYCEMIA IS RELATED TO ALL CAUSES OF MORTALITY AND CARDIOVASCULAR DEATH IN PATIENTS WITH CIRRHOSIS AND DIABETES**

HIGUERA-DE LA TIJERA F,\* SERVÍN-CAAMAÑO A,\*\*  
 NAVARRO-ESTRADA AE,\*\* RÁBAGO-ESCOTO R,\*  
 CRUZ-ESTRADA A,\*\* ALEXANDERSON-ROSAS EG\*\*  
 \* GASTROENTEROLOGY DEPARTMENT,  
 \*\* INTERNAL MEDICINE DEPARTMENT. HOSPITAL GENERAL DE MÉXICO "DR. EDUARDO LICEAGA". MEXICO CITY, MEXICO.

**10 CARTEL**  
**CLIF-SOFA OR CLIF-C-ACLF?, COMPARISON TO PREDICT MORTALITY AT 28 AND 90 DAYS IN MEXICAN PATIENTS WITH ACUTE ON CHRONIC LIVER FAILURE**

MAYORGA-MARÍN T, HIGUERA-DE LA TIJERA F  
 GASTROENTEROLOGY DEPARTMENT, HOSPITAL GENERAL DE MÉXICO "DR. EDUARDO LICEAGA", MEXICO CITY, MEXICO.

**19 CARTEL**  
**QUALITY OF LIFE IN CIRRHOTIC PATIENTS WITH ASCITES WITH OR WITHOUT PARACENTESIS AND COMPARED WITH HEALTHY CONTROLS**

MONTES-DE-OCA-SALINAS FM, MURGUÍA-DOMÍNGUEZ D,  
 HIGUERA-DE LA TIJERA F, CAMACHO-HERNÁNDEZ S  
 DEPARTMENT OF GASTROENTEROLOGY. HOSPITAL GENERAL DE MÉXICO "DR. EDUARDO LICEAGA". MEXICO CITY, MEXICO.

**28 CARTEL**  
**BRIDGE THERAPY USING SENGSTAKEN BLAKEMORE TUBE FOR ACTIVE VARICEAL HEMORRHAGE**

BONILLA-RAMOS A, HIGUERA-DE LA TIJERA F,  
 SOTO-HERNÁNDEZ K, PÉREZ-HERNÁNDEZ J  
 GASTROENTEROLOGY DEPARTMENT, HOSPITAL GENERAL DE MÉXICO "DR. EDUARDO LICEAGA", MEXICO CITY, MEXICO.

**34 CARTEL**  
**DIASTOLIC DYSFUNCTION IN REDUCED 6 MINUTE WALK TEST DISTANCE IN CIRRHOTIC PATIENTS**

MUÑOZ-MARTÍNEZ SG, MÁRQUEZ-GUILLEN M,  
 CHAIRES-GARZA L, CALLE-RODAS DA,  
 TOAPANTA-YANCHAPAXI L, PÁEZ-ZAYAS V,  
 MARROQUÍN-REYES JD, TEPOX-PADRÓN A,  
 PAREDES-MARTÍNEZ DE ARREDONDO H,  
 LIZÁRRAGA-GÓMEZ E, HERNÁNDEZ-REYES P,  
 GARCÍA-JUÁREZ I  
 DEPARTMENT OF GASTROENTEROLOGY, NATIONAL INSTITUTE OF MEDICAL SCIENCE AND NUTRITION "SALVADOR ZUBIRÁN", MEXICO CITY, MEXICO.

**40 CARTEL**  
**IMPACT OF INFECTIONS ON THE MORTALITY OF HOSPITALIZED PATIENTS WITH LIVER CIRRHOSIS**

VÁZQUEZ-ANAYA G, DÍAZ-HERNÁNDEZ HA,  
 CASTRO-NARRO GE  
 DEPARTMENT OF GASTROENTEROLOGY, NATIONAL INSTITUTE OF MEDICAL SCIENCE AND NUTRITION "SALVADOR ZUBIRÁN", MEXICO CITY, MEXICO.

**41 CARTEL**  
**CIRRHOTIC CARDIOMYOPATHY IN HOSPITAL JUÁREZ DE MÉXICO**

VELASCO-SANTIAGO YM,\* MEJÍA-LOZA MIS,\*  
 LÓPEZ-GÓMEZ LM,\*\* ELIZALDE-BAUTISTA CI,\*\*  
 FERNÁNDEZ-MARTÍNEZ NC,\* AGUILAR-MORENO RU,\*  
 BARRAZA-ORTIZ DA,\* LLORENTE-RAMÓN A,\*  
 RAMOS-AGUILAR GA,\* ZAMARRIPA-DORSEY F\*  
 \* SERVICIO DE GASTROENTEROLOGÍA, HOSPITAL JUÁREZ DE MÉXICO, MEXICO CITY, MEXICO.  
 \*\* SERVICIO DE CARDIOLOGÍA, HOSPITAL JUÁREZ DE MÉXICO, MEXICO CITY, MEXICO.  
 \*\*\* SERVICIO DE MEDICINA INTERNA, IMSS HGZ 30 IZTACALCO, MEXICO CITY, MEXICO.

**42 CARTEL**  
**VALUATION OF CONTROLLING NUTRITIONAL STATUS (CONUT) IN CIRRHOTIC PATIENTS AND MORTALITY AT 28 DAYS OF HJM (PRELIMINARY RESULTS)**

RAMOS AGUILAR GA  
 HOSPITAL JUÁREZ DE MÉXICO. MEXICO CITY, MEXICO.

**45 CARTEL**  
**DEMOGRAPHIC CHARACTERISTICS, ASSOCIATED AUTOIMMUNE DISEASES AND MORTALITY IN PATIENTS WITH PRIMARY BILIARY CIRRHOSIS (PBC) IN THE SPECIALTY HOSPITAL LA RAZA NATIONAL MEDICAL CENTER**

VARGAS-ÁNGELES MR, DEL REAL-CALZADA CM  
 SERVICIO DE GASTROENTEROLOGÍA, HOSPITAL DE ESPECIALIDADES "DR. ANTONIO FRAGA MOURET" CENTRO MÉDICO NACIONAL LA RAZA. MEXICO CITY, MEXICO.

#### 46 CARTEL IMPAIRMENT OF MYOKINES EXPRESSION IN PATIENTS WITH CIRRHOSIS AND ITS MODULATION THROUGH PHYSICAL EXERCISE

ESPIN-NASSER M,\* RUIZ-MARGAIN A,\*  
FERNÁNDEZ DEL RIVERO G,\* ROMÁN CALLEJA BM,\*  
MORENO-TAVÁREZ EA,\* CHI-CERVERA L,\*  
MÉNDEZ-GUERRERO O,\* TREBICKA J,\*\*  
MACÍAS-RODRÍGUEZ RU\*

\* DEPARTMENT OF GASTROENTEROLOGY, INSTITUTO NACIONAL DE CIENCIAS MÉDICAS Y NUTRICIÓN "SALVADOR ZUBIRÁN", MEXICO CITY, MEXICO.

\*\* DEPARTMENT OF INTERNAL MEDICINE I, UNIVERSITY OF BONN, BONN, GERMANY. EUROPEAN FOUNDATION FOR THE STUDY OF CHRONIC LIVER FAILURE, BARCELONA, SPAIN. FACULTY OF HEALTH SCIENCES, UNIVERSITY OF SOUTHERN DENMARK, ODENSE, DENMARK. INSTITUTE FOR BIOENGINEERING OF CATALONIA, BARCELONA, SPAIN.

#### 52 CARTEL LIMITATIONS OF HAND-GRIP STRENGTH FOR MUSCLE FUNCTION ASSESSMENT IN PATIENTS WITH CIRRHOSIS

MÉNDEZ-GUERRERO O, GONZÁLEZ-ARELLANO MF,  
RAMÍREZ-SOTO K, ROMÁN-CALLEJA B,  
FERNÁNDEZ-DEL RIVERO G, GARCÍA MATA-VÁZQUEZ D,  
TORRE A, MACÍAS-RODRÍGUEZ RU, RUIZ-MARGAÍN A  
DEPARTMENT OF GASTROENTEROLOGY, INSTITUTO NACIONAL DE CIENCIAS MÉDICAS Y NUTRICIÓN "SALVADOR ZUBIRÁN", MEXICO CITY, MEXICO.

#### 69 ORAL CORRELATION OF PLATELET COUNT/SPLEEN DIAMETER RATIO WITH ENDOSCOPIC FINDINGS IN CIRRHOTIC PATIENTS WITH PORTAL HYPERTENSION

AGUILAR-OLIVOS NE,\* RAMÍREZ-PÉREZ OL,\*\*  
CRUZ-RAMÓN VC,\*\* RODRÍGUEZ-MARTÍNEZ OF,\*  
ALTAMIRANO-BARRERA A,\*\* MÉNDEZ-SÁNCHEZ N\*\*

\* DEPARTMENT OF GASTROINTESTINAL ENDOSCOPY, MEDICA SUR CLINIC & FOUNDATION, MEXICO CITY, MEXICO.

\*\* LIVER RESEARCH UNIT, MEDICA SUR CLINIC & FOUNDATION, MEXICO CITY, MEXICO.

#### 57 CARTEL BACTERIAL RESISTANCE AND CAUSAL AGENTS IN CIRRHOTIC PATIENTS WITH URINARY TRACT INFECTION (UTI)

OVIEDO MAGLIONE MA, LOZA MEJÍA SM,  
SOSA HERNÁNDEZ O, RIVERA FLORES A,  
RUIZ GARCÍA E, ZAMARRIPA DORSEY F  
HOSPITAL JUÁREZ DE MEXICO, MEXICO CITY, MEXICO.

#### 64 CARTEL IMPORTANCE OF THE IDENTIFICATION OF 25 HYDROXY VITAMIN D3 AND ERLY INTERVENTION IN PATIENTS WITH CHRONIC LIVER DISEASE WITH OR WITHOUT CIRRHOSIS AND LIVER TRANSPLANT

MUÑOZ-ESPINOSA L,\* CHÁVEZ-AGUILAR G,\*  
GARCÍA-HERNÁNDEZ P,\*\* TORRES-GONZÁLEZ L,\*  
CORDERO-PÉREZ P\*

\* DEPARTAMENTO DE MEDICINA INTERNA, UNIDAD DE HÍGADO, HOSPITAL UNIVERSITARIO "DR. JOSÉ ELEUTERIO GONZÁLEZ", UNIVERSIDAD AUTÓNOMA DE NUEVO LEÓN, MONTERREY, NL, MEXICO.

\*\* SERVICIO DE REUMATOLOGÍA, HOSPITAL UNIVERSITARIO "DR. JOSÉ

ELEUTERIO GONZÁLEZ", UNIVERSIDAD AUTÓNOMA DE NUEVO LEÓN, MONTERREY, NUEVO LEÓN, MÉXICO.

#### 78 CARTEL RED BLOOD CELL DISTRIBUTION WIDTH AS MORTALITY MARKER AND HOSPITAL RE-ENTRY IN PATIENTS WITH DECOMPENSATED HEPATIC CIRRHOSIS FROM THE HOSPITAL JUÁREZ DE MÉXICO

BARRAZA ORTIZ DA, MEJÍA LOZA SM, LLORENTE RAMÓN A,  
RAMOS AGUILAR G, FERNÁNDEZ MARTÍNEZ NC,  
VELASCO SANTIAGO YM, ZAMARRIPA DORSEY F  
GASTROENTEROLOGY SERVICE, HOSPITAL JUÁREZ DE MÉXICO, MEXICO CITY, MEXICO.

#### 79 CARTEL EFFECT OF PHYSICAL EXERCISE IN PATIENTS WITH CIRRHOSIS ON THE EXPRESSION OF GENES INVOLVED IN AMMONIA METABOLISM

ESPIN-NASSER M, GARCÍAMATA-VÁSQUEZ AD,  
FERNÁNDEZ DEL RIVERO G, ROMÁN-CALLEJA BM,  
TORRE A, MÉNDEZ-GUERRERO O, MORENO-TAVAREZ EA,  
RUIZ-MARGAIN A, MACÍAS-RODRÍGUEZ RU  
\* DEPARTMENT OF GASTROENTEROLOGY, INSTITUTO NACIONAL DE CIENCIAS MÉDICAS Y NUTRICIÓN "SALVADOR ZUBIRÁN", MEXICO CITY, MEXICO.

#### 81 CARTEL EVALUATION OF LYSOSOMAL ACID LIPASE ACTIVITY IN CIRRHOTIC PATIENTS FROM DIFFERENT ETIOLOGIES AFTER LIVER TRANSPLANTATION

DÍAZ-HERNÁNDEZ HA, JOANICO-AGUILAR R,  
CASTRO-NARRO GE  
DEPARTMENT OF GASTROENTEROLOGY, NATIONAL INSTITUTE OF MEDICAL SCIENCE AND NUTRITION "SALVADOR ZUBIRÁN", MEXICO CITY, MEXICO.

#### 82 CARTEL POTENTIAL USE OF URSOLIC ACID TO PREVENT FATTY LIVER DISEASE IN AN *IN VIVO* MODEL OF DIET-INDUCED OBESITY

BASTIDAS-RAMÍREZ BE,\* GONZÁLEZ-GARIBAY AS,\*  
LÓPEZ-VÁZQUEZ A,\* GARCÍA-BAÑUELOS JJ,\*\*  
GONZÁLEZ-HITA ME,\*\*\* SÁNCHEZ-ENRÍQUEZ S,\*\*\*  
ARMENDÁRIZ-BORUNDA J,\*\* BUENO-TOPETE M,\*  
DEL TORO-ARREOLA S\*

\* INSTITUTO DE INVESTIGACIÓN EN ENFERMEDADES CRÓNICO-DEGENERATIVAS. MEXICO.

\*\* INSTITUTO DE BIOLOGÍA MOLECULAR EN MEDICINA. MEXICO.

\*\*\* LABORATORIO DE BIOQUÍMICA DEL CENTRO UNIVERSITARIO DE CIENCIAS DE LA SALUD DE LA UNIVERSIDAD DE GUADALAJARA. MEXICO.

#### 87 CARTEL CLINICAL CHARACTERISTICS AND OUTCOMES OF PNEUMONIA IN PATIENTS WITH SEVERE COMORBIDITIES: IMPACT ON LIVER CIRRHOSIS

CUEVAS-CASTILLEJOS JE,\* PÁEZ-ZAYAS VM,\*  
HOYO-ULLOA I,\*\* GARCÍA-JUÁREZ I\*

\* GASTROENTEROLOGY DEPARTMENT, INSTITUTO NACIONAL DE CIENCIAS MÉDICAS Y NUTRICIÓN "SALVADOR ZUBIRÁN", MEXICO CITY, MEXICO.

\*\* INTERNAL MEDICINE AND INFECTIOUS DISEASES DEPARTMENT, AMERICAN BRITISH COWDRAY MEDICAL CENTER, MEXICO CITY, MEXICO.



**89 CARTEL**  
**EFFECT OF RELATIVE SUPRARRENAL**  
**INSUFFICIENCY IN THE MORTALITY OF**  
**HOSPITALIZED CIRRHOTIC PATIENTS OF**  
**HOSPITAL JUÁREZ DE MÉXICO: CASES CONTROL**

RIVERA-FLORES AG, MEJÍA MIS, GARCÍA-RUIZ E,  
 OVIEDO-MAGLIONE MA, DURÁN-ROSAS C,  
 GODOY-ARISTA K, ZAMARRIPA-DORSEY F  
 DEPARTMENT OF GASTROENTEROLOGY, HOSPITAL JUÁREZ DE MÉXICO,  
 MEXICO CITY. MEXICO.

**90 CARTEL**  
**TERLIPRESSIN FOR 24 H AS AN ADJUVANT**  
**THERAPY IN ACUTE VARICEAL BLEEDING:**  
**COMPARISON AGAINST A HISTORIC**

RIVERA-FLORES AG, MEJÍA MIS, GARCÍA-RUIZ E,  
 OVIEDO-MAGLIONE MA, DURÁN-ROSAS C, GODOY-ARISTA K,  
 ZAMARRIPA-DORSEY F  
 DEPARTMENT OF GASTROENTEROLOGY, HOSPITAL JUÁREZ DE MÉXICO,  
 MEXICO CITY. MEXICO.

**100 CARTEL**  
**INFECTIOUS COMPLICATIONS AND**  
**MICROBIOLOGICAL ISOLATES IN HOSPITALIZED**  
**PATIENTS WITH LIVER CIRRHOSIS**

VÁZQUEZ-ANAYA G, DÍAZ-HERNÁNDEZ HA,  
 CASTRO-NARRO GE  
 DEPARTMENT OF GASTROENTEROLOGY, NATIONAL INSTITUTE OF  
 MEDICAL SCIENCE AND NUTRITION "SALVADOR ZUBIRÁN", MEXICO CITY,  
 MEXICO.

**102 ORAL**  
**SHEAR WAVE ELASTOGRAPHY PREDICTS RISK**  
**CATEGORIES IN PATIENTS WITH CIRRHOSIS.**  
**PANDORA STUDY 2**

POO JL,\* MUÑOZ L,\*\* HERNÁNDEZ L,\*\* GASCA F,\*  
 ZAPATA C,\*\* IZAGUIRRE JR,\*\* CORDERO P,\*\*  
 CASTILLO C, LIZARDI J,\* RIVERA JF,\* AGUILAR JR\*  
 \* MEXICAN GROUP FOR THE STUDY OF LIVER DISEASES, MEXICO CITY,  
 MEXICO.  
 \*\* UNIVERSITY HOSPITAL, MONTERREY, NUEVO LEON. MEXICO.

**103 CARTEL**  
**PIRFENIDONE AND STANDARD OF CARE IN**  
**PATIENTS WITH LIVER CIRRHOSIS. BASELINE**  
**DATA OF A DOUBLE-BLIND CLINICAL**  
**CONTROLLED TRIAL**

MUÑOZ L,\* TORRE A,† CISNEROS L,‡ MALÉ R,§  
 MONTALVO I,|| AGUILAR JR,¶ LIZARDI J,¶ ZUÑIGA J,\*  
 CORDERO P,\* ICAZA ME,|| HERNÁNDEZ L,\* GASCA F,†  
 TORRES L,§ TAPIA G,¶ POO JL¶  
 \* HOSPITAL UNIVERSITARIO, MONTERREY. MEXICO.  
 † INSTITUTO NACIONAL DE CIENCIAS MÉDICAS Y NUTRICIÓN "SALVADOR  
 ZUBIRÁN", MEXICO CITY. MEXICO.  
 ‡ HOSPITAL SAN JOSÉ, ITESM DE MONTERREY, MEXICO.  
 § INSTITUTO DE SALUD DIGESTIVA Y HEPÁTICA, GUADALAJARA, MEXICO.  
 || CLÍNICA DE HÍGADO, MÉRIDA, MEXICO.  
 ¶ GRUPO MEXICANO PARA EL ESTUDIO DE LAS ENFERMEDADES  
 HEPÁTICAS, MEXICO CITY, MEXICO.

**105 CARTEL**  
**EFFECTIVENESS OF DIRECT ORAL**  
**ANTICOAGULANTS IN NON-CIRRHOTIC PORTAL**  
**VEIN THROMBOSIS TREATMENT**

ASTUDILLO-ROMERO B,\* MUÑOZ-MARTÍNEZ SG,\*\*  
 PIÑA-OLGUÍN L,\*\* LÓPEZ-MÉNDEZ E\*\*  
 \* DEPARTMENT OF INTERNAL MEDICINE, INSTITUTO NACIONAL DE  
 CIENCIAS MÉDICAS Y NUTRICIÓN "SALVADOR ZUBIRÁN", MEXICO CITY,  
 MEXICO.  
 \*\* DEPARTMENT OF GASTROENTEROLOGY, INSTITUTO NACIONAL DE  
 CIENCIAS MÉDICAS Y NUTRICIÓN "SALVADOR ZUBIRÁN", MEXICO CITY,  
 MEXICO.

**106 CARTEL**  
**COMPARISON OF L-ORNITIN L-ASPARTATE DOSES**  
**vs. CONTINUOUS INFUSION IN HEPATIC**  
**ENCEPHALOPATHY III AND IV GRADES**

RODRÍGUEZ-PÉREZ PA, RODRÍGUEZ-ATEMIS A,\*  
 MARTÍNEZ-LÓPEZ H,\*\* AGUILAR-RAMÍREZ JR,\*\*  
 CERDA-REYES E\*\*  
 \* RESIDENT GASTROENTEROLOGY SPECIALITY, CENTRAL MILITARY  
 HOSPITAL. MEXICO CITY. MEXICO.  
 \*\* ATTACHED GASTROENTEROLOGY SERVICE. CENTRAL MILITARY  
 HOSPITAL. MEXICO CITY. MEXICO.

**109 ORAL**  
**NEW COGNITIVE FUNCTIONS FOR DETECTION OF**  
**MINIMAL HEPATIC ENCEPHALOPATHY**

JIMÉNEZ-JIMÉNEZ A,\*\* SANTANA-VARGAS AD,\*\*  
 DURÁN-MEZA H,\*\* ALCÁNTARA-ORTIZ C,\*\*  
 HIGUERA-DE LA TIJERA F,\* PÉREZ-HERNÁNDEZ JL\*  
 \* SERVICIO DE GASTROENTEROLOGÍA, HOSPITAL GENERAL DE MÉXICO.  
 \*\* DIRECCIÓN DE INVESTIGACIÓN, HOSPITAL GENERAL DE MÉXICO.

**112 CARTEL**  
**SENSITIVITY AND SPECIFICITY OF TWO VARIANTS**  
**OF POTENTIAL EVOKED P300 IN THE DIAGNOSIS OF**  
**MINIMAL HEPATIC ENCEPHALOPATHY**

SANTANA-VARGAS AD,\*\* DURÁN-MEZA H,\*  
 JIMÉNEZ-JIMÉNEZ A,\*\* ALCÁNTARA-ORTIZ C,\*\*  
 HIGUERA-DE LA TIJERA F,\* PÉREZ-HERNÁNDEZ JL\*  
 \* SERVICIO DE GASTROENTEROLOGÍA, HOSPITAL GENERAL DE MÉXICO.  
 MEXICO CITY, MEXICO.  
 \*\* DIRECCIÓN DE INVESTIGACIÓN, HOSPITAL GENERAL DE MÉXICO.  
 MEXICO CITY, MEXICO.

**118 CARTEL**  
**PROCALCITONIN AS A PREDICTOR OF MORTALITY**  
**AT 28 DAYS IN HEPATIC CIRRHOSIS, IN THE**  
**DEPARTMENT OF GASTROENTEROLOGY OF**  
**HOSPITAL JUÁREZ DE MEXICO**

AGUILAR-MORENO RU, CANO-CONTRERAS AD,  
 FERNÁNDEZ-MARTÍNEZ NC, VELASCO-SANTIAGO YM,  
 MEJÍA-LOZA SMI, ZAMARRIPA-DORSEY F  
 DEPARTMENT OF GASTROENTEROLOGY, HOSPITAL JUÁREZ DE MÉXICO,  
 MEXICO CITY. MEXICO.

### 119 CARTEL CORRELATION OF LYSOSOMAL ACID LIPASE ACTIVITY LEVELS WITH CHILD PUGH SCALE IN PATIENTS WITH LIVER CIRRHOSIS OF CRYPTOGENIC ORIGIN

SOLANO URRUSQUIETA A,\* RÍOS PARADA D,\*\*  
CERDA REYES E\*\*\*

\* FELLOW OF INTERNAL MEDICINE IN CENTRAL MILITARY HOSPITAL.

\*\* PHYSICIAN OF MILITARY CENTRAL HOSPITAL.

\*\*\* LEADER OF THE GASTROENTEROLOGY SECTION OF THE CENTRAL MILITARY HOSPITAL. MEXICO CITY.

### 129 CARTEL PREVALENCE AND RISK FACTORS FOR DYSGEUSIA IN PATIENTS WITH HEPATIC CIRRHOSIS

CHÁVEZ-VELÁZQUEZ JH, CHÁVEZ-TAPIA NC,  
URIBE-ESQUIVEL M, JUÁREZ-HERNÁNDEZ E  
TRANSLATIONAL RESEARCH UNIT, MEDICA SUR CLINIC & FOUNDATION,  
MEXICO CITY, MEXICO.

### 137 CARTEL PREIMMUNIZATION STATUS AND TRANSIENT IMMUNOSUPPRESSION WITH CYCLOSPORINE A AFFECTS TRANSDUCTION EFFICIENCY OF ADENOVECTORS IN CIRRHOTIC RATS

SANDOVAL A,\* GARCÍA-BAÑUELOS J,\*  
SALAZAR-MONTES A,\* ARMENDÁRIZ-BORUNDA J\*\*  
\* INSTITUTE OF MOLECULAR BIOLOGY IN MEDICINE AND GENE THERAPY,  
CUCS, UNIVERSITY OF GUADALAJARA. MEXICO.  
\*\* TECNOLÓGICO DE MONTERREY, CAMPUS GUADALAJARA. MEXICO.

### 140 CARTEL CORRELATION BETWEEN RELATIVE SUPRARRENAL INSUFFICIENCY, MORTALITY AND ACUTE VARICEAL BLEEDING IN CIRRHOTIC PATIENTS OF THE JUAREZ HOSPITAL IN MEXICO: CASE SERIES CONTROL

RIVERA-FLORES AG, MEJÍA MIS, GARCÍA-RUIZ E,  
OVIEDO-MAGLIONE MA, DURÁN-ROSAS C,  
GODOY-ARISTA K, ZAMARRIPA-DORSEY F  
DEPARTMENT OF GASTROENTEROLOGY OF THE HOSPITAL JUÁREZ DE  
MÉXICO, MEXICO CITY, MEXICO.

## III. LIVER DISEASE, CHOLESTATIC AND CHRONIC

### 37 CARTEL PROGNOSTIC FACTORS ASSOCIATED TO SURVIVAL IN PATIENTS WITH DIAGNOSIS OF PRIMARY BILIARY COLANGITIS OF HOSPITAL JUÁREZ DE MÉXICO

LLORENTE-RAMÓN A,\* ROBLEDO-PASCUAL JC,\*\*  
MEJÍA-LOZA SMI,\* BARRAZA-ORTIZ DA,\*  
RAMOS-AGUILAR GA,\* VELASCO-SANTIAGO YM,\*  
FERNÁNDEZ-MARTÍNEZ NC,\* ZAMARRIPA-DORSEY F\*  
\* DEPARTMENT OF GASTROENTEROLOGY, HOSPITAL JUÁREZ DE MÉXICO,  
MEXICO CITY, MEXICO.  
\* DEPARTMENT OF PNEUMOLOGY REGIONAL HOSPITAL OF HIGH  
SPECIALTY "DR. JUAN GRAHAM CASASUS" VILLAHERMOSA, TABASCO,  
MEXICO.

### 115 CARTEL FREQUENCY OF HEPATIC DISEASE DURING PREGNANCY IN THE HOSPITAL JUÁREZ DE MÉXICO

CANO-CONTRERAS AD,\* DURÁN-ROSAS C,\*  
GARCÍA-RUIZ E,\* MEJÍA-LOZA S,\* PÉREZ-LÓPEZ N,\*  
GONZÁLEZ-ANGULO A,\* ZAMARRIPA-DORSEY F\*  
\* HOSPITAL JUÁREZ DE MÉXICO, MEXICO CITY, MEXICO.

### 117 CARTEL USEFULNESS OF THE MEASUREMENT OF ESR AND CRP IN ACUTE ON CHRONIC LIVER FAILURE (ACLF), IN THE DEPARTMENT OF GASTROENTEROLOGY OF HOSPITAL JUÁREZ DE MÉXICO

AGUILAR-MORENO RU, CANO-CONTRERAS AD,  
FERNÁNDEZ-MARTÍNEZ NC, VELASCO SANTIAGO-YM,  
MEJÍA-LOZA SMI, ZAMARRIPA-DORSEY F  
DEPARTMENT OF GASTROENTEROLOGY, HOSPITAL JUÁREZ DE MÉXICO,  
MEXICO CITY, MEXICO.

## IV. VIRAL HEPATITIS

### 24 CARTEL MANAGEMENT WITH PENTOXIFYLLINE IN FULMINATING HEPATITIS, PILOT STUDY

JIMÉNEZ-LUÉVANO MA, RAMÍREZ-FLORES S,  
RODRÍGUEZ-VILLA P, JIMÉNEZ-PARTIDA MA,  
JIMÉNEZ-PARTIDA AE, CORTÉS-AGUILAR Y,  
BRAVO-CUÉLLAR A  
HOSPITAL REGIONAL "VALENTÍN GÓMEZ FARÍAS", ISSSTE, GUADALAJARA,  
JALISCO, MEXICO.

### 02 CARTEL CURRENT DISTRIBUTION BY GENOTYPES OF HEPATITIS C IN MEXICO

HIGUERA-DE LA TIJERA F,\* FLORES-TORRES A,\*  
SOTO-MARTÍNEZ K, \*\* PÉREZ-HERNÁNDEZ JL,\*\*\*\*  
ESPINOSA-LÓPEZ FR,\*\*\* NAVARRETE-PRIDA MA,\*\*\*  
SERVÍN-CAAMAÑO A,\*\*\*\* ALEXANDERSON-ROSAS EG\*\*\*\*  
\* DEPARTMENT OF GASTROENTEROLOGY, HOSPITAL GENERAL DE  
MÉXICO  
"DR. EDUARDO LICEAGA". MEXICO.  
\*\* SUPERIOR SCHOOL OF MEDICINE, IPN. MEXICO.  
\*\*\* CENTRAL SOUTH HOSPITAL OF HIGH SPECIALTY PEMEX PICACHO,  
MEXICO.  
\*\*\*\* INTERNAL MEDICINE DEPARTMENT. HOSPITAL GENERAL DE MÉXICO "  
DR. EDUARDO LICEAGA", MEXICO CITY, MEXICO.

### 03 CARTEL FREQUENCY OF EXTRAHEPATIC MANIFESTATIONS IN A GROUP OF PATIENTS WITH DIAGNOSIS OF CHRONIC HEPATITIS C

HIGUERA-DE LA TIJERA F,\* FLORES-TORRES A,\*  
SOTO-MARTÍNEZ K,\*\* PÉREZ-HERNÁNDEZ JL\*  
\* GASTROENTEROLOGY DEPARTMENT FROM HOSPITAL GENERAL DE  
MÉXICO  
"DR. EDUARDO LICEAGA". MEXICO.  
\*\* SUPERIOR SCHOOL OF MEDICINE, INSTITUTO POLITÉCNICO NACIONAL,  
MEXICO CITY, MEXICO.

**17 CARTEL**  
**SOCIOECONOMIC PROFILE OF PATIENTS WITH CHRONIC INFECTION FOR HEPATITIS C VIRUS IN TREATMENT WITH DIRECT ACTION ANTIVIRALS ATTENDED AT THE INCMNSZ**

LÓPEZ-YÁÑEZ MS, TORRE-DELGADILLO A, GARCÍA-JUÁREZ I, PÁEZ-ZAYAS VM, TOAPANTA-YANCHAPAXI L, USCANGA DOMÍNGUEZ L  
 DEPARTMENT OF GASTROENTEROLOGY, NATIONAL INSTITUTE OF MEDICAL SCIENCES AND NUTRITION "SALVADOR ZUBIRÁN". MEXICO CITY, MEXICO.

**35 CARTEL**  
**CLINICAL-EPIDEMIOLOGICAL CHARACTERISTICS OF PATIENTS WITH DIAGNOSIS OF AUTOIMMUNE HEPATITIS OF HOSPITAL JUÁREZ DE MÉXICO**

GODOY-ARISTA T, RIVERA-FLORES A, MEJÍA-LOZA SM, GARCÍA-RUIZ E, ZAMARRIPA-DORSEY F  
 GASTROENTEROLOGY/HOSPITAL JUÁREZ DE MÉXICO, MEXICO CITY, MEXICO.

**36 CARTEL**  
**HEPATIC FIBROSIS DETERMINED BY ELASTOGRAPHY IN PATIENTS WITH DIAGNOSIS OF AUTOIMMUNE HEPATITIS OF HOSPITAL JUÁREZ DE MÉXICO**

GODOY-ARISTA T, RIVERA-FLORES A, MEJÍA-LOZA S, GARCÍA-RUIZ E, ZAMARRIPA-DORSEY F  
 GASTROENTEROLOGY, HOSPITAL JUÁREZ DE MÉXICO, MEXICO CITY, MEXICO.

**72 CARTEL**  
**SCREENING PROGRAM OF VIRAL HEPATITIS AND OTHER INFECTIOUS DISEASES IN A HIGH-RISK HEALTH CARE GROUP IN MEXICO**

CRUZ-RAMÓN VC,\* RAMÍREZ-PÉREZ OL,\* CHINCHILLA-LÓPEZ P,\* BAPTISTA-GONZÁLEZ H,\*\* TRUEBA-GÓMEZ R,\*\* ROSENFELD-MANN R,\*\* ROQUE-ÁLVAREZ E,\*\* AGUILAR-OLIVOS NE,\* MÉNDEZ-SÁNCHEZ N\*  
 \* LIVER RESEARCH UNIT, MEDICA SUR CLINIC & FOUNDATION, MEXICO CITY, MEXICO.  
 \*\* DEPARTMENT OF PERINATAL HEMATOLOGY, NATIONAL INSTITUTE OF PERINATOLOGY, MEXICO CITY, MEXICO.

**99 CARTEL**  
**HIGH PREVALENCE OF VIRAL HEPATITIS AND HIV IN A LOW INCOME POPULATION IN WEST MEXICO**

LAGUNA-MERAZ S,\* VIZCAÍNO-GUAJARDO MP,\* JOSÉ-ABREGO A,\* ROMÁN S,\* SIGALA-ARELLANO R,\*\* PANDURO A\*  
 \* MOLECULAR BIOLOGY SERVICE IN MEDICINE. CIVIL HOSPITAL OF GUADALAJARA "FRAY ANTONIO ALCALDE" AND UNIVERSITY CENTER OF HEALTH SCIENCES, UNIVERSITY OF GUADALAJARA. MEXICO.  
 \*\* CLINICAL PATHOLOGY LABORATORY. MEXICO.

**107 CARTEL**  
**TREATMENT EFFECTIVENES WITH SOFOSBUVIR-LEDIPASVIR + RIBAVIRIN IN PATIENTS GENOTYPE 1 AND ADVANCED FIBROSIS: REAL LIFE STUDY**

CEBALLOS ROMERO EO,\* BAUTISTA-SANTOS A,\* MORENO-ALCÁNTAR R,\* ELIZALDE-BARRERA CI\*\*  
 \* DEPARTMENT OF GASTROENTEROLOGY. HOSPITAL DE ESPECIALIDADES CENTRO MÉDICO NACIONAL SIGLO XXI, INSTITUTO MEXICANO DEL SEGURO SOCIAL. MEXICO.  
 \*\* INTERNAL MEDICINE SERVICE. HOSPITAL GENERAL DE ZONA, NÚM. 30, INSTITUTO MEXICANO DEL SEGURO SOCIAL. MEXICO.

**110 CARTEL**  
**LEUKOPENIA AS EXTRAHEPATIC MANIFESTATION OF INFECTION WITH VIRUS OF HEPATITIS C (HCV)**

MONTEJO-VELÁZQUEZ C, GUTIÉRREZ-ATEMIS A, RÍOS-PARADA DR, HERRERO-MACEDA MR, CERDA-REYES E  
 HOSPITAL CENTRAL MILITAR. MEXICO CITY, MEXICO.

**111 CARTEL**  
**VIRUS OF HEPATITIS C, GENOTYPE 6 IN MEXICO: CASE REPORT**

PINEDA-FIGUEROA LD,\* CERDA-GALOMO CA\*\*  
 \* ISSSTE, HRAEBI TULTITLAN/STAR MEDICA LUNA PARC. MEXICO.  
 \*\* IMSS "IGNACIO GARCÍA TÉLLEZ", HGZ NO.1, SAN LUIS POTOSI. MEXICO.

**113 CARTEL**  
**UTILITY OF APRI AND FIB-4 ON HEPATIC FIBROSIS F1-F2 MEASUREMENT ON PATIENTS WITH HEPATITIS C VIRUS INFECTION CANDIDATES TO DIRECT ACTING ANTIVIRAL TREATMENT**

BAUTISTA-SANTOS A,\* VILLARREAL-VARGAS G,\* MORENO-ALCÁNTAR R,\* ELIZALDE-BARRERA CI\*\*  
 \* DEPARTAMENTO DE GASTROENTEROLOGÍA. HOSPITAL DE ESPECIALIDADES CENTRO MÉDICO NACIONAL SIGLO XXI. INSTITUTO MEXICANO DEL SEGURO SOCIAL. MEXICO.  
 \*\* SERVICIO DE MEDICINA INTERNA. HOSPITAL GENERAL DE ZONA NÚM. 30. INSTITUTO MEXICANO DEL SEGURO SOCIAL MEXICO.

**130 CARTEL**  
**ANALYSIS OF CXCL-9, IL-29 IN PATIENTS WITH CHRONIC HEPATITIS C**

FLORES-VASCONCELOS I,\* ROSIQUE ORAMAS D,\* MEDINA AVILA Z,\* CORDERO P,\*\* MUÑOZ L,\*\* PÉREZ JL,\*\*\* GUTIÉRREZ-REYES G\*  
 \* LABORATORIO HIPAM, UNIDAD DE MEDICINA EXPERIMENTAL, FACULTAD DE MEDICINA, UNAM, HOSPITAL GENERAL DE MÉXICO. MEXICO.  
 \*\* UNIVERSIDAD AUTÓNOMA DE NUEVO LEÓN. MEXICO.  
 \*\*\* CLÍNICA DE HÍGADO, DEPARTAMENTO DE GASTROENTEROLOGÍA, HOSPITAL GENERAL DE MÉXICO "DR. EDUARDO LICEAGA". MEXICO.  
 \*\*\*\* INSTITUTO NACIONAL DE CIENCIAS MÉDICAS Y NUTRICIÓN "SALVADOR ZUBIRÁN". MEXICO.



**134 CARTEL**  
**ASSOCIATION OF FIBROSIS AND HEPATIC STEATOSIS IN PATIENTS WITH CHRONIC HEPATITIS C ASSESSED BY TRANSIENT ELASTOGRAPHY AND CONTROLLED ATTENUATION PARAMETER (CAP)**

GUERRERO-HERNÁNDEZ C, RAMÍREZ-ZAMUDIO C, GALINDO-OROZCO M, CIME-AKE E, DEL REAL-CALZADA C, RIZO-ROBLES MT  
 DEPARTMENT OF GASTROENTEROLOGY, HOSPITAL DE ESPECIALIDADES "DR. ANTONIO FRAGA MOURET", CENTRO MÉDICO NACIONAL LA RAZA, IMSS, MEXICO CITY, MEXICO.

**135 CARTEL**  
**ASSOCIATION OF TRANSIENT ELASTOGRAPHY WITH THE PRESENCE AND SIZE OF ESOPHAGEAL VARICES IN PATIENTS WITH CHRONIC VHC LIVER DISEASE. PRELIMINARY REPORT**

GÓMEZ-GARCÍA T, VILLEGAS-GARCÍA F, AMADOR-ARCÍA R, CIME-AKE E, DEL REAL-CALZADA C, RIZO-ROBLES MT  
 DEPARTMENT OF GASTROENTEROLOGY, HOSPITAL DE ESPECIALIDADES "DR. ANTONIO FRAGA MOURET", CENTRO MÉDICO NACIONAL LA RAZA, INSTITUTO MEXICANO DEL SEGURO SOCIAL, MEXICO CITY, MEXICO.

**136 ORAL**  
**PIRFENIDONE DECREASES TG $\beta$ 1 mRNA AND HCV-RNA IN THE SUBGENOMIC REPLICON JFH1 CELLS**

AYÓN-PÉREZ MF,\* SÁNCHEZ-OROZCO LV,\* FEUSTEL S,\* SANDOVAL-RODRÍGUEZ AS,\* GARCÍA-BAÑUELOS J,\* ARMENDÁRIZ-BORUNDA J\*\*  
 \* INSTITUTO DE BIOLOGÍA MOLECULAR EN MEDICINA, CENTRO UNIVERSITARIO DE CIENCIAS DE LA SALUD, UNIVERSIDAD DE GUADALAJARA, MEXICO.  
 \*\* TECNOLÓGICO DE MONTERREY, CAMPUS GUADALAJARA, MEXICO.

**127 CARTEL**  
**EPIDEMIOLOGICAL AND SITUATIONAL PANORAMA OF HEPATITIS C IN THE INSTITUTO MEXICANO DEL SEGURO SOCIAL (IMSS)**

BARRERA-CRUZ A, MORENO-ALCANTAR R, CASTILLO-BARRADAS M, ALDRETE-VÁZQUEZ R, CISNEROS-GARZA L, CASTRUITA-GARCÍA M, MELENDEZ-MENA DE, MENDOZA-M, LÓPEZ-HERNÁNDEZ PA, SANTIAGO-LUNA E, AGUAYO-VILLASEÑOR F, MENA-QUINTERO A, GARCÍA-ELIZALDE S, SOLÍS-GALINDO FA, SÁNCHEZ-COLÍN J, RIZO-ROBLES MT, BAUTISTA-SANTOS A, LICEAGA-CRAVIOTTO MG, VINIEGRA-OSORIO A, ARRIAGA-DÁVILA JJ  
 INSTITUTO MEXICANO DEL SEGURO SOCIAL.

**V. PEDIATRIC HEPATOLOGY**

**05 CARTEL**  
**HIGH FRUCTOSE CONSUMPTION IS ASSOCIATED WITH INSULIN RESISTANCE IN CHILDREN OF MEXICO CITY**

HUERTA-ÁVILA E,\* RAMÍREZ-SILVA I,\*\* DÍAZ-BENÍTEZ C,\* TORRES-SÁNCHEZ L,\*\* BURGUETE-GARCÍA A\*  
 \* CENTER FOR INFECTIOUS DISEASES RESEARCH, NATIONAL INSTITUTE OF PUBLIC HEALTH, CUERNAVACA, MORELOS, MEXICO.  
 \*\* CENTER FOR NUTRITION AND HEALTH RESEARCH, NATIONAL INSTITUTE OF PUBLIC HEALTH, CUERNAVACA, MORELOS, MEXICO.  
 \*\*\* CENTER FOR POPULATION HEALTH RESEARCH, NATIONAL INSTITUTE OF PUBLIC HEALTH, CUERNAVACA, MORELOS, MEXICO.

**33 CARTEL**  
**CLINICAL CHARACTERISTICS AND OUTCOME OF PATIENTS WITH COLANGITIS AND CHRONIC HEPATIC DISEASE IN A TERTIARY REFERRAL PEDIATRIC HOSPITAL**

ARELLANO-TEJEDA A, FLORES-CALDERÓN J, PACHECO-ROSAS DO  
 UMAE HOSPITAL DE PEDIATRÍA "DR. SILVESTRE FRENK FREUND" CENTRO MÉDICO NACIONAL SIGLO XXI, MEXICO CITY, MEXICO.

**63 CARTEL**  
**CHOLEDOCHAL CYSTS IN PEDIATRICS: AGE OF PRESENTATION, CLINICAL MANIFESTATIONS AND EVOLUTION**

JIMÉNEZ SÁNCHEZ S, REYES CERECEDO A, FLORES CALDERÓN J  
 PEDIATRIC GASTROENTEROLOGY AND NUTRITION DEPARTMENT, INSTITUTO MEXICANO DEL SEGURO SOCIAL UMAE PEDIATRIC HOSPITAL "DOCTOR SILVESTRE FRENK FREUND", CENTRO MÉDICO NACIONAL SIGLO XXI, MEXICO CITY, MEXICO.

**VI. ALCOHOLIC LIVER DISEASE AND FATTY LIVER**

**07 CARTEL**  
**CORRELATION OF STEATOSIS AND LEVELS OF AMINOTRANSFERASE IN PATIENTS WITH MORBID OBESITY**

MONTES DE OCA-SALINAS F, PÉREZ-ERNÁNDEZ J, HIGUERA-DE LA TIJERA F, SANTANA D, MANJARREZ-MARTÍN D  
 \* UNIT OF GASTROENTEROLOGY, HOSPITAL GENERAL DE MÉXICO, MEXICO CITY, MEXICO.

**08 CARTEL**  
**TRANSIENT ELASTOGRAPHY IN PATIENTS WITH MORBID OBESITY, FINDINGS OF FIBROSIS AND STEATOSIS**

PÉREZ-HERNÁNDEZ J, MONTES DE OCA-SALINAS F, HIGUERA-DE LA TIJERA F, SANTANA D, MANJARREZ-MARTÍN D  
 \* UNIT OF GASTROENTEROLOGY, HOSPITAL GENERAL DE MÉXICO, MEXICO CITY, MEXICO.

**09 CARTEL**  
**CORRELATION BETWEEN BODY MASS INDEX AND GRADE OF FIBROSIS IN PATIENTS WITH MORBID OBESITY**

MONTES DE OCA-SALINAS F, PÉREZ-HERNÁNDEZ J, HIGUERA-DE LA TIJERA F, SANTANA D, MANJARREZ-MARTÍN D  
 \* UNIT OF GASTROENTEROLOGY, HOSPITAL GENERAL DE MEXICO, MEXICO CITY, MEXICO.

**18 CARTEL**  
**CONCORDANCE OF STEATOSIS AND FIBROSIS IN THREE DIFFERENT AREAS OF THE SAME PATIENT EVALUATED BY TRANSITIONAL ELASTOGRAPHY**

MANJARREZ-MARTIN DA, RÁBAGO-ESCOTO R, HIGUERA-DE LA-TIJERA F, SANTANA-VARGAS D, PÉREZ-SOTO F, PÉREZ-HERNÁNDEZ JL  
 SERVICIO DE GASTROENTEROLOGÍA. HOSPITAL GENERAL DE MÉXICO "DR. EDUARDO LICEAGA". MEXICO CITY, MEXICO.

**21 CARTEL**  
**STADIFICATION OF THE FIBROMAX TEST (NASHTEST, FIBROTEST, ACTITEST, ASHTEST, STEATOTEST) IN PATIENTS WITH DIAGNOSIS OF STEATOSIS AND NASH IN A LIVER UNIT**

CORDERO-PÉREZ P, RAMÍREZ-MARTÍNEZ LA, DOMÍNGUEZ-VÁZQUEZ I, CORONADO-SÁNCHEZ JC, QUINTERO-CARRANZA SN, MORENO-PEÑA DP, TORRES-GONZÁLEZ L, TREVIÑO-LOZANO LC, MUÑOZ-ESPINOSA LE  
 UNIDAD DE HÍGADO, DEPARTAMENTO DE MEDICINA INTERNA, HOSPITAL UNIVERSITARIO "DR. JOSÉ E. GONZÁLEZ", UNIVERSIDAD AUTÓNOMA DE NUEVO LEÓN, MONTERREY, NUEVO LEÓN, MEXICO.

**29 CARTEL**  
**CORRELATION BETWEEN LIVER FIBROSIS AND STEATOSIS DUE TO NON-ALCOHOLIC FATTY LIVER DISEASE IN MEXICAN OBESE AND OVERWIGHT PEDIATRIC PATIENTS**

SOTO-HERNÁNDEZ K, MANJARREZ-MARTÍN D, PÉREZ-HERNÁNDEZ J, HIGUERA-DE LA TIJERA F, YÁÑEZ LÓPEZ P, SANTANA-VARGAS D  
 GASTROENTEROLOGY DEPARTMENT, HOSPITAL GENERAL DE MÉXICO "DR. EDUARDO LICEAGA", MEXICO CITY, MEXICO.

**30 CARTEL**  
**BODY COMPOSITION ASSESMENT IN PATIENTS WITH NON-ALCOHOLIC FATTY LIVER DISEASE WITH HIGH CARDIVACULAR RISK**

SANDOVAL-TOVAR P,\* AYALA-LÓPEZ DG,\* DÍAZ-JIMÉNEZ DE,\* PINEDA-JUÁREZ JA,\* BARRANCO-FRAGOSO B,\*\* SUÁREZ-CUENCA JA,\* DOMÍNGUEZ-PÉREZ G,\* IXCAMPARIJ-ROSALES C,\*\*\*\* ACEVES-MILLÁN R,\*\*\*\* FLORES F,\*\*\*\* ALFONSO-GARDUÑO A\*\*\*\*  
 \* RESEARCH COORDINATION, \*\* NON-ALCOHOLIC FATTY LIVER DISEASE CLINIC, \*\*\* ENDOCRINOLOGY SERVICE, \*\*\*\* ECHOCARDIOGRAPHY SERVICE. CENTRO MÉDICO NACIONAL "20 DE NOVIEMBRE", ISSSTE, MEXICO CITY, MEXICO.

**50 CARTEL**  
**EVALUATION OF CXCL-8 AND IL-6 IN PATIENTS WITH ALCOHOLIC LIVER DISEASE**

ROSIQUE-ORAMAS D,\* MEDINA-ÁVILA Z,\* GARCÍA-LÓPEZ B,\* RAMÍREZ-MENDOZA A,\* ROMERO-BELLO I,\* GUZMÁN C,\* PÉREZ-HERNÁNDEZ JL,\*\* HIGUERA-DE LA TIJERA F,\*\* GUTIÉRREZ-REYES G\*  
 \* LABORATORIO HÍGADO, PÁNCREAS Y MOTILIDAD (HIPAM), DPTO. MEDICINA EXPERIMENTAL, UNAM. MEXICO CITY, MEXICO.  
 \*\* CLÍNICA DE HÍGADO, HOSPITAL GENERAL DE MÉXICO. MEXICO CITY, MEXICO.

**51 ORAL**  
**SWEET ENED AND ALCOHOLIC BEVERAGES FREQUENCY INTAKE AND ITS RELATION WITH BIOCHEMICAL MARKERS OF THE DISEASE IN PATIENTS WITH NON-ALCOHOLIC FATTY LIVER DISEASE**

CHENA-BECERRA MC, RENTERÍA-CATALÁN I, MARTÍNEZ-GONZÁLEZ MC, MARTÍNEZ VÁZQUEZ SE  
 INSTITUTO NACIONAL DE CIENCIAS MÉDICAS Y NUTRICIÓN "SALVADOR ZUBIRÁN", MEXICO CITY, MEXICO.

**53 CARTEL**  
**ANTHROPOMETRIC AND BIOCHEMICAL MARKER DIFFERENCES ACCORDING TO PROCESSED FOOD INTAKE IN PATIENTS WITH NON ALCOHOLIC FATTY LIVER PATIENTS**

MARTÍNEZ-VÁZQUEZ SE, MARTÍNEZ-GONZÁLEZ MC, RENTERÍA-CATALÁN I, CASTRO-NARRO G  
 INSTITUTO NACIONAL DE CIENCIAS MÉDICAS Y NUTRICIÓN "SALVADOR ZUBIRÁN". MEXICO CITY, MEXICO.

**70 CARTEL**  
**THE ROLE OF BILIRUBIN CONCENTRATION IN THE DEVELOPMENT OF NON-ALCOHOLIC LIVER AND GALLSTONE DISEASE**

RAMÍREZ-PÉREZ OL,\* CRUZ-RAMÓN VC,\* CHINCHILLA-LÓPEZ P,\* AGUILAR-OLIVOS NE,\*\* RODRÍGUEZ-MARTÍNEZ OF,\*\* FAJARDO-ORDOÑEZ ES,\* RAMOS-OSTOS MH,\* MÉNDEZ-SÁNCHEZ N\*  
 \* LIVER RESEARCH UNIT, MEDICA SUR CLINIC & FOUNDATION MEXICO CITY, MEXICO.  
 \*\* DEPARTMENT OF GASTROINTESTINAL ENDOSCOPY. MEDICA SUR CLINIC & FOUNDATION, MEXICO CITY, MEXICO.

## 71 CARTEL CURRENT TRENDS OF LIVER CIRRHOSIS IN MEXICO

MÉNDEZ-SÁNCHEZ N,\* ZAMARRIPA-DORSEY F,†  
PANDURO-CERDA A,‡ PURÓN-GONZÁLEZ E,§  
CORONADO-ALEJANDRO EU,§  
CORTEZ-HERNÁNDEZ CA,|| HIGUERA-DE LA TIJERA F,†  
PÉREZ-HERNÁNDEZ JL,† CERDA-REYES E,\*\*  
RODRÍGUEZ-HERNÁNDEZ H,†† CRUZ-RAMÓN VC,\*  
RAMÍREZ-PÉREZ OL,\* AGUILAR-OLIVOS NE,\*  
RAMOS-GÓMEZ MV,\*\* CABRERA-PALMA S,§§  
CABRERA-ÁLVAREZ G§§

\* LIVER RESEARCH UNIT, MEDICA SUR CLINIC & FOUNDATION, MEXICO CITY, MEXICO.

† DEPARTMENT OF GASTROENTEROLOGY, HOSPITAL JUÁREZ OF MEXICO, MEXICO CITY, MEXICO.

‡ DEPARTMENT OF MOLECULAR BIOLOGY IN MEDICINE, CIVIL HOSPITAL OF GUADALAJARA "FRAY ANTONIO ALCALDE", GUADALAJARA, JALISCO, MEXICO.

§ DEPARTMENT OF INTERNAL MEDICINE, CHRISTUS MUGUERZA "SUPER SPECIALTY" HOSPITAL, MONTERREY, NUEVO LEÓN, MEXICO.

|| DEPARTMENT OF GASTROENTEROLOGY, UNIVERSITY HOSPITAL "JOSÉ ELEUTERIO GONZÁLEZ" MONTERREY, NUEVO LEÓN, MEXICO.

† DEPARTMENT OF GASTROENTEROLOGY, GENERAL HOSPITAL OF MEXICO "DR. EDUARDO LICEAGA", MEXICO CITY, MEXICO.

\*\* DEPARTMENT OF GASTROENTEROLOGY, CENTRAL MILITARY HOSPITAL, MEXICO CITY, MEXICO.

†† BIOMEDICAL RESEARCH UNIT, GENERAL HOSPITAL, IMSS, DURANGO, MEXICO.

## DEPARTMENT OF GASTROENTEROLOGY, NATIONAL MEDICAL CENTER "20 DE NOVIEMBRE", ISSSTE, MEXICO CITY, MEXICO.

§§ LIVER CLINIC, GENERAL REGIONAL HOSPITAL IMSS, NO. 1, CUERNAVACA, MORELOS, MEXICO.

## 75 CARTEL EFFECTS OF DELPHINIDIN ON LIPID METABOLISM IN TWO EXPERIMENTAL OBESITY-RELATED MODELS OF NON-ALCOHOLIC FATTY LIVER DISEASE

PARRA-VARGAS M,\* SANDOVAL-RODRÍGUEZ A,\*  
RODRÍGUEZ-ECHEVARRÍA R,\*  
DOMÍNGUEZ-ROSALES J,\*\* ARMENDARIZ-BORUNDA J\*

\* INSTITUTE FOR MOLECULAR BIOLOGY IN MEDICINE AND GENE THERAPY, CUCS. UNIVERSITY OF GUADALAJARA. GUADALAJARA, JALISCO, MEXICO.

\*\* INSTITUTE FOR CHRONIC DEGENERATIVE DISEASES, CUCS. UNIVERSITY OF GUADALAJARA. GUADALAJARA, JALISCO, MEXICO.

## 76 CARTEL EVALUATION OF OXIDATIVE STRESS IN OBESE PEDIATRIC PATIENTS WITH NON-ALCOHOLIC FATTY LIVER DISEASE (NAFLD)

ORTIZ-NORIEGA E,\* MEJÍA L,\*\* GARCÍA-LÓPEZ B,\*  
MEDINA-AVILA Z,\* CRUZ-BAUTISTA R,\*\* SUÁREZ L,\*\*  
AZAMAR A,\*\* ROSIQUE-ORAMAS D,\* GALICIA-MORENO M,\*  
GUTIÉRREZ-REYES G\*

\* LIVER, PANCREAS AND MOTILITY LABORATORY, UNAM. MEXICO CITY, MEXICO.

\*\* CHILDREN HOSPITAL OF IZTAPALAPA. MEXICO CITY, MEXICO.

## 84 CARTEL QUALITY OF THE DIET BY LEVEL OF PROCESSING FOOD IN PATIENTS WITH FATTY LIVER DISEASE OF NON-ALCOHOLIC ORIGIN

RENTERÍA CATALÁN PI, CHENA-BECERRA MC,  
ASTUDILLO-GARCÍA F, MARTÍNEZ-VÁZQUEZ SE  
INSTITUTO NACIONAL DE CIENCIAS MÉDICAS Y NUTRICIÓN "SALVADOR ZUBIRÁN", MEXICO CITY, MEXICO.

## 91 CARTEL THE ETIOLOGY OF LIVER DISEASE AS A RISK FACTOR IN THE DEVELOPMENT OF FIBROSIS: A STUDY WITH TRANSITIONAL ELASTOGRAPHY

PÉREZ HERNÁNDEZ JL, SANTANA VARGAS AD,  
MANJARREZ-MARTIN DA, PEREZ SOTO F,  
HIGUERA DE LA TIJERA MF  
GASTROENTEROLOGY SERVICE. HOSPITAL GENERAL DE MÉXICO "DR EDUARDO LICEAGA". MEXICO CITY. MEXICO.

## 95 CARTEL RELATIONSHIP OF BIOACTIVE LIPID CONSUMPTION WITH NAFLD AND LIVER FIBROSIS

LÓPEZ-BAUTISTA F,\* JUÁREZ-HERNÁNDEZ E,\*\*  
BARBERO-BECERRA VJ,\*\* RAMOS-OSTOS MH,\*\*  
URIBE M,\*\* CHÁVEZ-TAPIA NC\*\*

\* MOLECULAR BIOLOGY DEPARTMENT, INSTITUTO NACIONAL DE CARDIOLOGÍA "IGNACIO CHÁVEZ" AND FACULTAD DE MEDICINA, UNAM. MEXICO.

\*\* TRANSLATIONAL RESEARCH UNIT. MEDICA SUR CLINIC & FOUNDATION. MEXICO.

\*\*\* INTEGRAL DIAGNOSIS AND TREATMENT CENTER. MEDICA SUR CLINIC & FOUNDATION. MEXICO.

## 96 CARTEL ANALYSIS OF THE DAMAGE TO PROTEINS, LIPID AND THE MAIN ENDOGENOUS ANTIOXIDANT IN PATIENTS WITH ALCOHOLISM AND ALCOHOLIC LIVER CIRRHOSIS

GARCÍA-LÓPEZ B,\* MEDINA-ÁVILA Z,\* ROSIQUE-ORAMAS D,\*  
PÉREZ JL,\*\* HIGUERA-DE LA TIJERA F,\*\*  
GUTIÉRREZ-REYES G\*

\* LABORATORY (HIPAM), DEPARTMENT OF EXPERIMENTAL MEDICINE, UNIVERSIDAD NACIONAL AUTÓNOMA DE MÉXICO. MEXICO.

\*\* HOSPITAL GENERAL DE MÉXICO "DR. EDUARDO LICEAGA". MEXICO.

## 101 CARTEL CORRELATION GRADES OF LIVER STEATOSIS / FIBROSIS WITH TRANSIENT ELASTOGRAPHY BETWEEN LIVER BIOPSY IN OBESE PATIENTS

MACÍAS-ÁNGELES YR, LÓPEZ-LADRÓN DE GUEVARA V,  
GARCÍA-GARCÍA JA, HIGUERA DE LA TIJERA F  
HOSPITAL GENERAL DE MÉXICO "EDUARDO LICEAGA". MEXICO CITY. MEXICO.

## 114 CARTEL LIPID PANEL ALTERATIONS IN PATIENTS WITH ADVANCED LIVER FIBROSIS FOR NON-ALCOHOLIC FATTY LIVER DISEASE

CHI-CERVERA LA,\* CERVERA-CETINA MA,\*\*  
ICAZA-CHÁVEZ ME,\* MONTALVO-GORDON I\*  
\* HOSPITAL STAR MÉDICA. MÉRIDA, YUCATÁN, MEXICO.  
\*\* CLÍNICA DE MÉRIDA. MÉRIDA, YUCATÁN, MEXICO.

## 132 CARTEL PHASE ANGLE AND NUTRITIONAL STATUS IN PATIENTS WITH ACUTE ALCOHOLIC HEPATITIS

ALZÚA-PICHARDO E,\* BERNACHO-CRUZ DL,\*\*  
ORNELAS-ESCOBEDO E,\* HIGUERA-DE LA TIJERA F\*  
\* GASTROENTEROLOGY DEPARTMENT, HOSPITAL GENERAL DE MÉXICO "DR. EDUARDO LICEAGA". MEXICO.  
\*\* CLINICAL NUTRITION DEPARTMENT, HOSPITAL GENERAL DE MÉXICO "DR. EDUARDO LICEAGA". MEXICO.

**133 CARTEL**  
**CORRELATION OF THE DEGREE OF OBESITY AND**  
**DEGREE OF FIBROSIS IN PATIENTS WITH HEPATIC**  
**NON ALCOHOLIC HEPATIC DISEASE**

LÓPEZ-PÉREZ RY,\* FLORES TORRES A,\*  
 SERVÍN-CAAMAÑO A,\*\* HIGUERA-DE LA TIJERA MF,\*  
 PÉREZ HERNÁNDEZ JL\*  
 \* GASTROENTEROLOGY SERVICE. HOSPITAL GENERAL DE MÉXICO "DR.  
 EDUARDO LICEAGA". MEXICO CITY, MEXICO.  
 \*\* INTERNAL MEDICINE SERVICE. HOSPITAL GENERAL DE MÉXICO "DR.  
 EDUARDO LICEAGA". MEXICO CITY, MEXICO.

**138 CARTEL**  
**PROLONGED-RELEASE PIRFENIDONE REDUCES**  
**BODY WEIGHT AND EPIDIDYMAL FAT**  
**ACCUMULATION IN A NAFLD/NASH MOUSE MODEL**

SANDOVAL-RODRÍGUEZ A,\* GARCÍA-BAÑUELOS J,\*  
 VERA-CRUZ JM,\* SALAZAR-MONTES A,\*  
 RODRÍGUEZ-SANABRIA JS,\* MEZA-RÍOS A,\*  
 GUTIÉRREZ-CUEVAS J,\* ARMENDÁRIZ-BORUNDA J\*\*  
 \* INSTITUTO DE BIOLOGÍA MOLECULAR EN MEDICINA Y TERAPIA GÉNICA.  
 CUCS. UNIVERSIDAD DE GUADALAJARA. MEXICO.  
 \*\* TECNOLÓGICO DE MONTERREY, CAMPUS GUADALAJARA. MEXICO.

**139 CARTEL**  
**PROLONGED-RELEASE PIRFENIDONE DECREASES**  
**INSULIN RESISTANCE IN A NAFLD/NASH MOUSE**  
**MODEL INDUCED BY HIGH FAT/CARBOHIDRATE**  
**RICHDIET**

SANDOVAL-RODRÍGUEZ A,\* GARCÍA-BAÑUELOS J,\*  
 VERA-CRUZ JM,\* SALAZAR-MONTES A,\*  
 RODRÍGUEZ-SANABRIA JS,\* GUTIÉRREZ-CUEVAS J,\*  
 MEZA-RÍOS A,\* ESCUTIA-GUTIÉRREZ R,\*  
 ARMENDÁRIZ-BORUNDA J\*\*  
 \* INSTITUTO DE BIOLOGÍA MOLECULAR EN MEDICINA Y TERAPIA GÉNICA.  
 CUCS. UNIVERSIDAD DE GUADALAJARA. MEXICO.  
 \*\* TECNOLÓGICO DE MONTERREY, CAMPUS GUADALAJARA. MEXICO.

**VII. OTHER TOPICS**

**22 CARTEL**  
**VITAMIN D (1,25 OHD3) AND ITS RELATION WITH**  
**CHRONIC HEPATIC DISEASES IN PATIENTS OF THE**  
**CENTER OF HEPATOLOGY OF THE UNIVERSITY**  
**HOSPITAL "DR. JOSÉ E. GONZÁLEZ"**

CORDERO-PÉREZ P, ESQUIVEL-FIGUEROA D,  
 DÍAZ-CALDERA M, TREVIÑO-LOZANO L,  
 FLORES-DE ALEJANDRO A, RODRÍGUEZ-RODRÍGUEZ D  
 UNIDAD DE HÍGADO, DEPARTAMENTO DE MEDICINA INTERNA, HOSPITAL  
 UNIVERSITARIO "DR. JOSÉ E. GONZÁLEZ", UNIVERSIDAD AUTÓNOMA DE  
 NUEVO LEÓN, MONTERREY, NUEVO LEÓN, MEXICO.

**23 CARTEL**  
**ALPHA FETOPROTEIN SERUM LEVELS IN PATIENTS**  
**WITH CHRONIC LIVER DISEASE: REPORT OF**  
**LIVER UNIT OF UNIVERSITY HOSPITAL**  
**"DR. JOSÉ E. GONZÁLEZ"**

CIENFUEGOS-PECINA E, MORENO-PEÑA DP,  
 IBARRA-FLORES JA, CORDERO-PÉREZ P, TREVIÑO-LOZANO  
 LC, MUÑOZ-ESPINOSA LE, TORRES-GONZÁLEZ L  
 LIVER UNIT, DEPARTMENT OF INTERNAL MEDICINE, UNIVERSITY HOSPITAL "  
 DR. JOSÉ E. GONZÁLEZ". UNIVERSIDAD AUTÓNOMA DE NUEVO LEÓN.  
 MONTERREY, NUEVO LEÓN, MEXICO.

**31 CARTEL**  
**CLINICAL, SEROLOGICAL AND TECHNICAL**  
**FACTORS ASSOCIATED WITH COMPLICATIONS**  
**WHEN PERFORMING HEPATIC BIOPSIES**

PÉREZ-ESCOBAR J,  
 MUÑOZ-MARTÍNEZ S, PIÑA-OLGUÍN L, TORRE A  
 DEPARTMENT OF GASTROENTEROLOGY, NATIONAL INSTITUTE OF  
 MEDICAL SCIENCES AND NUTRITION "SALVADOR ZUBIRÁN", MEXICO CITY,  
 MEXICO.

**48 CARTEL**  
**INSULIN-LIKE GROWTH FACTOR BINDING**  
**PROTEINS AS POTENTIAL NONINVASIVE**  
**BIOMARKERS OF HEPATIC FIBROSIS**

ROSIQUE-ORAMAS D,\* MEDINA-ÁVILA Z,\* ORTIZ-NORIEGA E,\*  
 GUZMÁN C,\* CORDERO P,† MUÑOZ L,† REYES-ZERMEÑO G,‡  
 PÉREZ-HERNÁNDEZ JL,§ HIGUERA-DE LA TIJERA F,§  
 SÁNCHEZ-ÁVILA F,|| KERSHENOBICH D,||  
 GUTIÉRREZ-REYES G\*  
 \* LABORATORIO HÍGADO, PÁNCREAS Y MOTILIDAD (HIPAM), DPTO.  
 MEDICINA EXPERIMENTAL, UNAM. MEXICO CITY. MEXICO.  
 † UNIVERSIDAD AUTÓNOMA DE NUEVO LEÓN, FACULTAD DE MEDICINA,  
 MONTERREY, NUEVO LEÓN. MEXICO.  
 ‡ HOSPITAL 20 DE NOVIEMBRE. MEXICO CITY. MEXICO.  
 § CLÍNICA DE HÍGADO, HOSPITAL GENERAL DE MÉXICO. MEXICO CITY.  
 MEXICO.  
 || INSTITUTO NACIONAL DE CIENCIAS MÉDICAS Y NUTRICIÓN "SALVADOR  
 ZUBIRÁN". MEXICO CITY. MEXICO.

**49 CARTEL**  
**MALNUTRITION DIAGNOSED BY MID-ARM**  
**CIRCUMFERENCE (MAMC) PREDICTS THE RISK OF**  
**HOSPITALIZATION AND MORTALITY COMPARED**  
**TO OTHER NON-INVASIVE METHODS OF**  
**NUTRITIONAL ASSESSMENT**

GONZÁLEZ-ARELLANO MF, RAMÍREZ-SOTO K,  
 ROMÁN-CALLEJA B, FERNÁNDEZ DEL RIVERO G,  
 ESPIN-NASSER M, MÉNDEZ-GUERRERO O, TORRE A,  
 MACÍAS-RODRÍGUEZ R, RUÍZ-MARGAÍN A  
 DEPARTMENT OF GASTROENTEROLOGY, INSTITUTO NACIONAL DE  
 CIENCIAS MÉDICAS Y NUTRICIÓN "SALVADOR ZUBIRÁN", MEXICO CITY,  
 MEXICO.

#### 74 ORAL VALIDATION OF THE CRITICAL FLICKER FREQUENCY (CFF) TEST IN MEXICAN POPULATION AND ITS PROGNOSTIC IMPLICATIONS

ROMÁN-CALLEJA BM,\* ESPIN-NASSER M,\*  
FERNÁNDEZ DEL RIVERO G,\* MORENO-TAVAREZ EA,\*  
AMPUERO J,\*\* ROMERO-GÓMEZ M,\*\* TORRE A,\*  
MACÍAS-RODRÍGUEZ RU,\* RUIZ-MARGAIN A\*  
\* DEPARTMENT OF GASTROENTEROLOGY, INSTITUTO NACIONAL DE  
CIENCIAS MÉDICAS Y NUTRICIÓN "SALVADOR ZUBIRÁN", MEXICO CITY,  
MEXICO.  
\*\* UNIT FOR THE CLINICAL MANAGEMENT OF DIGESTIVE DISEASES.  
VIRGEN DEL ROCÍO UNIVERSITY HOSPITAL INSTITUTE OF BIOMEDICINE OF  
SEVILLA (IBIS). CENTRO BIOMÉDICO EN RED DE ENFERMEDADES  
HEPÁTICAS Y DIGESTIVAS (CIBEREHD). SEVILLA, SPAIN.

#### 88 CARTEL CASE-CONTROL STUDY TO IDENTIFY FACTORS RELATED TO POST-PARACENTESIS FISTULA DEVELOPMENT

MELÉNDEZ-ANDRADE J, MOTOLA-KUBA M,  
SERVIN-CAAMAÑO A, HIGUERA-DE LA TIJERA F  
GENERAL HOSPITAL OF MEXICO "EDUARDO LICEAGA",  
GASTROENTEROLOGY SERVICE, MEXICO CITY, MEXICO.

#### 93 CARTEL CORRELATION BETWEEN CRITICAL FREQUENCY OF FLASHING AND MELD NA

FERNÁNDEZ-MARTÍNEZ NC,\* MEJÍA-LOZA SMI,\*  
PÉREZ-LÓPEZ N,\* TORRES LÓPEZ E,\*\* BARRAZA-ORTIZ DA,\*  
VELASCO-SANTIAGO YM,\* AGUILAR-MORENO RU,\*  
RAMOS-AGUILAR GA,\* LLORENTE-RAMÓN A,\*  
ZAMARRIPA-DORSEY F\*  
\* GASTROENTEROLOGY SERVICE; HOSPITAL JUAREZ DE MEXICO, MEXICO  
CITY. MEXICO.  
\*\* GENERAL SURGERY SERVICE; HOSPITAL ÁNGELES LINDAVISTA, MEXICO  
CITY. MEXICO.

#### 97 CARTEL NEW ADDITIVES IN THE HTK PRESERVATION SOLUTION TO IMPROVE THE VIABILITY OF LIVER GRAFTS FROM OLD DONORS

CASILLAS-RAMÍREZ A,\*† AQUINO-RUBIO G,\*  
ROCHA-SÁNCHEZ AY,\* MARTÍNEZ-PADRÓN HY,\*  
BARRÓN-VARGAS CA,§ HERNÁNDEZ-OLVERA YE,‡  
CORDERO-PÉREZ P,|| ZAPATA-CHAVIRA HA,†  
JIMÉNEZ-CASTRO MB,\*\* PERALTA C††  
\* HOSPITAL REGIONAL DE ALTA ESPECIALIDAD DE CIUDAD VICTORIA  
"BICENTENARIO 2010", CIUDAD VICTORIA, TAMAULIPAS. MEXICO.  
† FACULTAD DE MEDICINA E INGENIERÍA EN SISTEMAS COMPUTACIONALES  
DE MATAMOROS, UNIVERSIDAD AUTÓNOMA DE TAMAULIPAS,  
MATAMOROS, TAMAULIPAS. MEXICO.  
‡ CAMPUS DE LA SALUD, UNIVERSIDAD LA SALLE VICTORIA, CIUDAD  
VICTORIA, TAMAULIPAS. MEXICO.  
§ HOSPITAL VETERINARIO DE PEQUEÑAS ESPECIES, FACULTAD DE  
MEDICINA VETERINARIA Y ZOOTECNIA, UNIVERSIDAD AUTÓNOMA DE  
TAMAULIPAS, CIUDAD VICTORIA, TAMAULIPAS. MEXICO.  
|| UNIDAD DE HÍGADO, HOSPITAL UNIVERSITARIO "DR. JOSÉ E. GONZÁLEZ",  
UNIVERSIDAD AUTÓNOMA DE NUEVO LEÓN, MONTERREY, N.L. MEXICO.  
† SERVICIO DE TRASPLANTES, HOSPITAL UNIVERSITARIO "DR. JOSÉ E.  
GONZÁLEZ", UNIVERSIDAD AUTÓNOMA DE NUEVO LEÓN, MONTERREY, N.L.  
MEXICO.  
\*\* TRANSPLANTS BIOMEDICALS, S.L., BARCELONA, ESPAÑA.  
†† INSTITUTO DE INVESTIGACIONES BIOMÉDICAS AUGUSTO PI Y SUÑER,  
BARCELONA, ESPAÑA.

#### 98 ORAL EVALUATION OF THE GALLIC ACID EFFECT ON BIOENERGETICS METABOLISM OF HUH7 HEPATOCARCINOMA CELLS INFECTED WITH HEPATITIS C VIRUS

GOVEA-SALAS M,\*\* RIAL-ZUECO E,\*\*\*\* RIVAS-ESTILLA  
AM,\*\*\* SALAS-VILLALOBOS TB,\*\*\* AGUILAR-GONZÁLEZ C,\*  
RODRÍGUEZ-HERRERA R,\* ILYINA A,\*\*  
FLORES-GARCÍA M,\* GOMES-ARAUJO R,\* MORLETT-CHÁVEZ J\*  
\* FOOD RESEARCH DEPARTMENT.  
\*\* NANOBIOSCIENCE GROUP, SCHOOL OF CHEMISTRY, AUTONOMOUS  
UNIVERSITY OF COAHUILA, SALTILLO, COAHUILA, MEXICO.  
\*\*\* DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR MEDICINE, SCHOOL  
OF MEDICINE, AUTONOMOUS UNIVERSITY OF NUEVO LEÓN. MONTERREY,  
NUEVO LEÓN, MEXICO.  
\*\*\*\* DEPARTMENT OF MITOCHONDRIAL BIOENERGETICS AT THE CENTER  
FOR BIOLOGICAL RESEARCH, CSIC, MADRID, SPAIN.

#### 104 CARTEL CHARACTERIZATION OF LIVER ABSCESES IN A RETROSPECTIVE COHORT

PÉREZ-ESCOBAR J, CALLE-RODAS DA,  
CHI-CERVERA L, TORRE-DELGADILLO A  
DEPARTMENT OF GASTROENTEROLOGY, INSTITUTO NACIONAL DE  
CIENCIAS MÉDICAS Y NUTRICIÓN "SALVADOR ZUBIRÁN". MEXICO CITY,  
MEXICO.

#### 124 CARTEL HEPATIC INJURY INDUCED BY DRUGS. REPORT OF 4 CASES OF THE CENTRAL MILITARY HOSPITAL

PANTALEÓN-MARTÍNEZ C,\* HERNÁNDEZ-SANDOVAL FG,\*\*  
MORA-MENDOZA I,\*\*\* AGUILAR-RAMÍREZ JR,\* CERDA-REYES E\*  
\* GASTROENTEROLOGY DEPARTMENT. MILITARY CENTRAL HOSPITAL.  
MEXICO CITY. MEXICO.  
\*\* PATOLOGY DEPARTMENT. MILITARY CENTRAL HOSPITAL. MEXICO CITY.  
MEXICO.

#### 125 CARTEL EVALUATION OF NUTRITIONAL STATUS AND BODY COMPOSITION IN PATIENTS WITH CHRONIC HEPATOMY AND HEPATIC CIRRHOSIS

POO JL,\* MUÑOZ L,\*\* HERNÁNDEZ L,\*\*  
GASCA F,\* MARTÍNEZ D\*\*  
\* MEXICAN GROUP FOR THE STUDY OF LIVER DISEASES, MEXICO CITY,  
MEXICO.  
\*\* UNIVERSITY HOSPITAL, MONTERREY, NUEVO LEÓN. MEXICO.

#### 126 CARTEL ANTIMICROBIAL RESISTANCE AND MORTALITY IN PATIENTS WITH SPONTANEOUS BACTERIAL PERITONITIS OF THE JUAREZ HOSPITAL OF MEXICO

RIVERA-FLORES AG, MEJÍA MIS, GARCÍA-RUIZ E,  
OVIEDO-MAGLIONE A, DURÁN-ROSAS C, GODOY-ARISTA K,  
TORRES-LÓPEZ E, ZAMARRIPA-DORSEY F  
DEPARTMENT OF GASTROENTEROLOGY OF THE HOSPITAL JUÁREZ DE  
MÉXICO, MEXICO CITY. MEXICO.



### 127 CARTEL DRUG INDUCED LIVER INJURY: A DIAGNOSTIC CHALLENGE? CASE REPORT

ALONZO-GARCÍA CJ, MARTÍNEZ-VILLASEÑOR E,  
GARCÍA-JIMÉNEZ ES, ALDANA-LEDESMA JM,  
ÁLVAREZ-LÓPEZ F, VELARDE-RUIZ VELASCO JA  
GASTROENTEROLOGY DEPARTMENT, HOSPITAL CIVIL "FRAY ANTONIO  
ALCALDE", GUADALAJARA, JALISCO, MÉXICO.

### 131 CARTEL PREVALENCE OF LIVER FIBROSIS, BY NON- INVASIVE METHODS IN PATIENTS WITH PSORIASIS

JUÁREZ-HERNÁNDEZ E,\* BALDERAS-GARCÉS B,\*\*  
CORRALES-ROSAS B,\*\*\* MALDONADO-GARCÍA C,\*\*\*\*  
VERA-IZAGUIRRE D,\* URIBE M,\*\* CHÁVEZ-TAPIA NC\*  
\* TRANSLATIONAL RESEARCH UNIT, MÉDICA SUR CLINIC & FOUNDATION.  
MEXICO CITY, MEXICO.  
\*\* GASTROENTEROLOGY UNIT, MÉDICA SUR CLINIC & FOUNDATION.  
MEXICO CITY, MEXICO.  
\*\*\* DERMATOLOGY UNIT, CMNSXXI. MEXICO CITY, MEXICO.  
\*\*\*\* DERMATOLOGIC CENTER "DR. LADISLAO DE LA PASCUA". MEXICO CITY,  
MEXICO.

### 04 ORAL PREDICTIVE FACTORS RELATED TO TREATMENT FAILURE WITH URSODEOXYCHOLIC ACID IN PATIENTS WITH PRIMARY BILIARY CHOLANGITIS

HIGUERA-DE LA TIJERA F,\* DÍAZ-CASTRO MA,\*  
SOTO-MARTÍNEZ K,\*\* ENRIQUEZ-COVARRUBIAS P,\*  
SERVÍN-CAAMAÑO A,\*\*\* CRUZ-ESTRADA A,\*\*\*  
ALEXANDERSON-ROSAS EG,\*\*\* PÉREZ-HERNÁNDEZ JL\*  
\* GASTROENTEROLOGY DEPARTMENT, HOSPITAL GENERAL DE MÉXICO  
"DR. EDUARDO LICEAGA", MEXICO CITY, MEXICO.  
\*\* SUPERIOR SCHOOL OF MEDICINE, INSTITUTO POLITÉCNICO NACIONAL,  
MEXICO CITY, MEXICO.  
\*\*\* INTERNAL MEDICINE DEPARTMENT, HOSPITAL GENERAL DE MÉXICO  
"DR. EDUARDO LICEAGA", MEXICO CITY, MEXICO.

## VIII. TRANSPLANTATION/LIVER SURGERY

### 20 CARTEL RECURRENCE OF AUTOIMMUNE DISEASES AFTER LIVER TRANSPLANTATION IN A TRANSPLANTATION REFERENCE CENTER

RODRÍGUEZ-AGUILAR EF, PÁEZ-ZAYAS VM, GARCÍA-JUÁREZ I  
DEPARTAMENTO DE GASTROENTEROLOGÍA, INSTITUTO NACIONAL DE  
CIENCIAS MÉDICAS Y NUTRICIÓN "SALVADOR ZUBIRÁN" (INCMNSZ). MEXICO  
CITY, MEXICO.

### 83 CARTEL BIOCHEMICAL DIFFERENCES OF THE METABOLIC SYNDROME BY ETIOLOGY IN LIVER TRANSPLANTATION PATIENTS

MARTÍNEZ-GONZÁLEZ MC, CASTRO-NARRO G,  
GARCÍA-JUÁREZ I, MARTÍNEZ-VÁZQUEZ SE  
INSTITUTO NACIONAL DE CIENCIAS MÉDICAS Y NUTRICIÓN "SALVADOR  
ZUBIRÁN", MEXICO CITY, MEXICO.

### 94 CARTEL BODY COMPOSITION PHENOTYPE OF CARDIOVASCULAR RISK AFTER LIVER TRANSPLANTATION

PADILLA-MEDINA FP, MUÑOZ-MARTÍNEZ SG, MARTÍNEZ-  
GONZÁLEZ MC, LÓPEZ-MÉNDEZ EE, MARTÍNEZ-VÁZQUEZ SE  
DEPARTAMENT OF GASTROENTEROLOGY, NATIONAL INSTITUTE OF  
MEDICAL SCIENCES AND NUTRITION "SALVADOR ZUBIRÁN". MEXICO CITY,  
MEXICO.

### 120 CARTEL BILIARY COMPLICATIONS IN ORTHOTROPIC LIVER TRANSPLANTATION: A MONITORING OF SIX YEARS (2011-2017)

RAMÍREZ-VILLARREAL M,\* VALDÉZ-ÁNGELES V,\*\*  
ALCARAZ-GARCÍA P,\*\*\* SANTOS-CABALLERO M,\*\*\*  
HERNÁNDEZ-DOMÍNGUEZ M,\*\*\* MARTÍNEZ-SALDIVAR B\*\*\*\*  
\* RESIDENTE DE GASTROENTEROLOGÍA DE HG CMN LA RAZA. MEXICO.  
\*\* INTENSIVISTA DE LA UNIDAD DE TRASPLANTE HG CMN LA RAZA.  
MEXICO.  
\*\*\* CIRUJANO DE TRASPLANTE HG CMN LA RAZA. MEXICO.  
\*\*\*\* HEPATÓLOGA DE LA UNIDAD DE TRASPLANTE HG CMN LA RAZA.  
MEXICO CITY, MEXICO.

### 121 CARTEL MORTALITY ATLAS OF LIVER CIRRHOSIS IN MEXICO

POO JL,\* MARIN E,\* MUÑOZ L,† MALÉ R,‡ AGUILAR JR,\*  
SÁNCHEZ JF,\* MELÉNDEZ C\* CONTRERAS R,\*  
REMES-TROCHE JM,§ MONTALVO I,\* RODRÍGUEZ H,\*  
GONZÁLEZ J,\* LIRA M, PATIÑO A, CRUZ M,  
RAMOS-NARVÁEZ F,\* QUEZADA E,\* GONZÁLEZ S,\*  
MARTÍNEZ F,\* GONZÁLEZ VM,\* HERNÁNDEZ L,\* TORRES L,‡  
GASCA F,\* HERNÁNDEZ M||  
LIRA M, PATIÑO A, CRUZ M.  
\* GRUPO MEXICANO PARA EL ESTUDIO DE LAS ENFERMEDADES  
HEPÁTICAS. MEXICO.  
† HOSPITAL UNIVERSITARIO, MONTERREY. MEXICO.  
‡ INSTITUTO DE SALUD DIGESTIVA Y HEPÁTICA, GUADALAJARA. MEXICO.  
§ INSTITUTO DE INVESTIGACIONES MÉDICO-BIOLÓGICAS, UNIVERSIDAD  
VERACRUZANA. MEXICO.  
|| INSTITUTO NACIONAL DE SALUD PÚBLICA, CUERNAVACA. MEXICO.

### 122 CARTEL COMPARISON OF TWO PSYCHOMETRIC TEST IN THE DIAGNOSIS OF MINIMAL ENCEPHALOPATHY

SANTANA-VARGAS AD,\*\* DURÁN-MEZA H,\*  
JIMÉNEZ-JIMÉNEZ A,\*\* ALCÁNTARA-ORTIZ C,\*\*  
HIGUERA-DE LA TIJERA F,\* PÉREZ-HERNÁNDEZ JL\*  
\* SERVICIO DE GASTROENTEROLOGÍA, HOSPITAL GENERAL DE MÉXICO.  
MEXICO CITY, MEXICO.  
\*\* DIRECCIÓN DE INVESTIGACIÓN, HOSPITAL GENERAL DE MÉXICO.  
MEXICO CITY, MEXICO.

### 123 CARTEL TRANSIENT ELASTOGRAPHY AS AN INDIRECT MARKER OF PORTAL HYPERTENSION IN PATIENTS WITH CIRRHOSIS

LÓPEZ-LADRÓN DE GUEVARA V, MACÍAS-ÁNGELES Y,  
LÓPEZ-PÉREZ Y, HIGUERA-DE LA TIJERA M, GARCÍA-GARCÍA  
CLÍNICA DE HÍGADO, HOSPITAL GENERAL DE MÉXICO "DR. EDUARDO  
LICEAGA". MEXICO CITY, MEXICO.

## IX. HEPATIC TUMORS

### 47 CARTEL EPIDEMIOLOGY AND TREATMENT OF HEPATOCELLULAR CARCINOMA IN THE HOSPITAL CENTRAL MILITAR (2010-2015)

ARCE-AYALA J,\* CERDA-REYES E,\*\* REBOLLO-HURTADO V\*\*\*

\* DEPARTAMENTO DE GASTROENTEROLOGÍA HOSPITAL CENTRAL MILITAR. MEXICO CITY, MEXICO.

\*\* DEPARTAMENTO DE HEPATOLOGÍA, HOSPITAL CENTRAL MILITAR. MEXICO CITY, MEXICO.

\*\*\* DEPARTAMENTO DE RADIOLOGÍA, HOSPITAL CENTRAL MILITAR. MEXICO CITY, MEXICO.

### 60 CARTEL PREVALENCE OF TUMOR CACHEXIA IN PATIENTS WITH HEPATIC CANCER

SERNA-THOMÉ MG, ÁLVAREZ DEL CASTILLO-SALAZAR HM,  
LEAL-GONZÁLEZ GD, LÓPEZ-BASAVE HN,  
MIRANDA-DEVORA G, HERRERA-GÓMEZ A,  
MONTALVO-ESQUIVEL G, MENESES-GARCÍA AA,  
PADILLA-ROSCIANO AE

INSTITUTO NACIONAL DE CANCEROLOGÍA, MEXICO, CITY, MEXICO.  
FACULTAD DE SALUD PÚBLICA Y NUTRICIÓN, UNIVERSIDAD AUTÓNOMA DE  
NUEVO LEÓN. MONTERREY, NUEVO LEÓN, MEXICO.

### 61 CARTEL MALNOURISHMENT PREVALENCE AND INFLAMMATORY RESPONSE IN PATIENTS WITH HEPATIC CANCER

ÁLVAREZ DEL CASTILLO SALAZAR HM,  
SERNA-THOMÉ MG, LEAL GONZÁLEZ GD,  
PADILLA-ROSCIANO AE

INSTITUTO NACIONAL DE CANCEROLOGÍA, MEXICO CITY, MEXICO.  
FACULTAD DE SALUD PÚBLICA Y NUTRICIÓN, UNIVERSIDAD AUTÓNOMA DE  
NUEVO LEÓN. MEXICO.

### 62 CARTEL MALNUTRITION PREVALENCE IN PATIENTS WITH HEPATIC TUMOR BY MEANS OF ANTHROPOMETRIC INDICATOR AND BIOCHEMICAL AND NUTRITIONAL VALUATIONS

LEAL GONZÁLEZ G, SERNA-THOMÉ G,  
ÁLVAREZ DEL CASTILLO H, NOVELO HUERTA H,  
LÓPEZ BASAVE HN, MIRANDA DEVORA G,  
MENESES GARCÍA AA, PADILLA-ROSCIANO AE  
INSTITUTO NACIONAL DE CANCEROLOGÍA, MEXICO CITY, MEXICO.  
FACULTAD DE SALUD PÚBLICA Y NUTRICIÓN, UNIVERSIDAD AUTÓNOMA DE  
NUEVO LEÓN, MÉXICO.

### 108 CARTEL UTILITY OF MANGNETIC RESONANCE WITH GADOXETIC ACID (AGXe) IN HEPATOCARCINOMA: PILOT STUDY IN PUEBLA, MEXICO

MARÍN-LÓPEZ E, CAMPOS LARA J, CORTÉS PAZ D  
DIVISIÓN DE MEDICINA INTERNA, DEPARTAMENTOS DE  
GASTROENTEROLOGÍA, HEPATOLOGÍA Y RADIOLOGÍA E IMAGEN.  
HOSPITAL ÁNGLES PUEBLA, PUEBLA, MEXICO.

### 116 CARTEL EPIDEMIOLOGICAL CHARACTERISTICS OF HEPATOCELLULAR CARCINOMA IN HOSPITAL JUÁREZ DE MÉXICO

DURÁN-ROSAS C, CANO-CONTRERAS A, MEJÍA-LOZA S,  
GARCÍA-RUIZ E, PÉREZ-LÓPEZ N, GONZÁLEZ-ANGULO A,  
JUÁREZ-VALDÉS E, ZAMARRIPA-DORSEY F  
HOSPITAL JUÁREZ DE MÉXICO, MEXICO CITY, MEXICO.