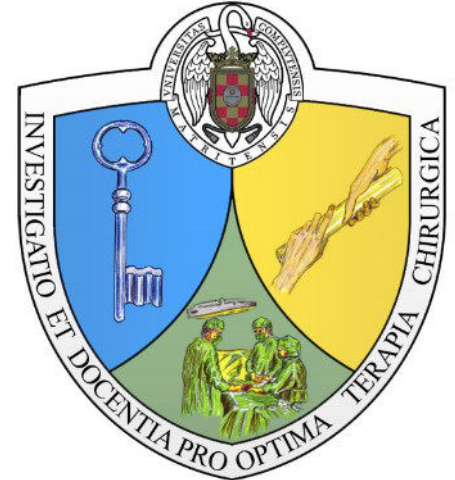


REVISTA ELECTRONICA DE CIRUGIA UCM



Octavo número

Estimados colegas:

Con este número recogemos la actividad desarrollada en el segundo cuatrimestre de este año. Como en los números previos, hemos contado, además de con las publicaciones remitidas por autores, también con el resultado de una revisión sistemática de la producción científica en cirugía de los centros adscritos a nuestra Universidad.

De nuevo agradecer vuestra ayuda, e instaros a que procuréis hacer figurar el nombre de la Universidad Complutense y/o el Departamento de Cirugía al que pertenecemos.

Si detectáis errores u omisiones de vuestras publicaciones, no dudéis en poneros en contacto con la revista, para así subsanarlos tan pronto como sea posible. Por otro lado el comité editorial está abierto a vuestras sugerencias y observaciones. Esta revista puede ser además, un medio para publicitar la actividad científica que esté previsto desarrollar en cada uno de los hospitales de la Universidad Complutense. Para este fin, únicamente debéis enviarnos los datos correspondientes.

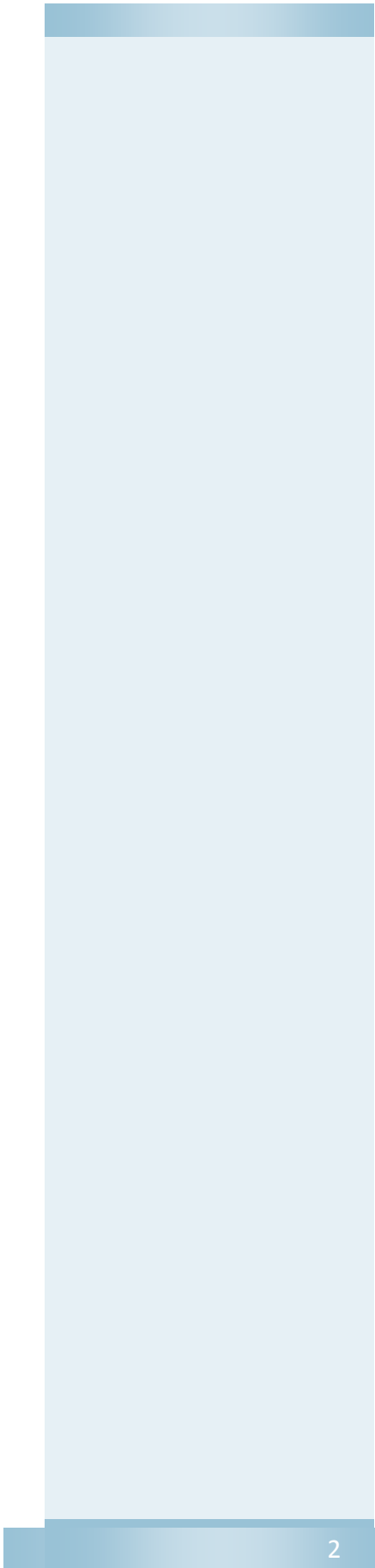
La publicación de artículos de revisión, innovación e historia de la medicina, también tiene un lugar destacado que procuraremos que esté presente en futuros números.

Recibid un saludo y nuestro agradecimiento por vuestra colaboración.

El comité editorial de la Revista Electrónica de Cirugía de la Universidad Complutense de Madrid.

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Indice de publicaciones

1. Allo Miguel G, Garcia Fernandez E, Martinez Diaz-Guerra G, Valero Zanuy MA, Perez Zapata A, de la Cruz Vigo F, et al. Recalcitrant hypocalcaemia in a patient with post-thyroidectomy hypoparathyroidism and Roux-en-Y gastric bypass. *Obes Res Clin Pract.* 2016;10(3):344-7.
2. Álvarez FV, Trueba IM, Sanchis JB, López-Rodó LM, Rodríguez Suárez PM, de Cos Escuín JS, et al. Recommendations of the Spanish Society of Pneumology and Thoracic Surgery on the diagnosis and treatment of non-small-cell lung cancer. *Arch Bronconeumol.* 2016;52 Suppl 1:2-62.
3. Anton-Pacheco JL. Tracheobronchial stents in children. *Semin Pediatr Surg.* 2016;25(3):179-85.
4. Antón-Pacheco JL, Luna C, García E, López M, Morante R, Tordable C, et al. Initial experience with a new biodegradable airway stent in children: Is this the stent we were waiting for? *Pediatr Pulmonol.* 2016;51(6):607-12.
5. Arístegui Ruiz MÁ, González-Orús Álvarez-Morujó RJ, Oviedo CM, Ruiz-Juretschke F, García Leal R, Scola Yurrita B. Surgical treatment of vestibular schwannoma. Review of 420 cases. *Acta Otorrinolaringol Esp.* 2016;67(4):201-11.
6. Arriba M, García JL, Inglada-Pérez L, Rueda D, Osorio I, Rodríguez Y, et al. DNA copy number profiling reveals different patterns of chromosomal instability within colorectal cancer according to the age of onset. *Mol Carcinog.* 2016;55(5):705-16.
7. Avecillas-Chasin JM, Rascon-Ramirez F, Barcia JA. Tractographical model of the cortico-basal ganglia and corticothalamic connections: Improving Our Understanding of Deep Brain Stimulation. *Clin Anat.* 2016;29(4):481-92.
8. Brandariz L, Alegre C, Rueda D, Arriba M, Alonso L, Nutu A, et al. New Perspectives in Multiple Primary Colorectal Cancer: A Surgical Approach. *Digestion.* 2016;94(2):57-65.

9. Butragueño Laiseca L, Oikonomopoulou N, Miranda Herrero MC, Barredo Valderrama E, Vázquez López M, Jiménez de Domingo A, et al. Neurological complications after gamma-knife radiosurgery for hypothalamic hamartoma. *Eur J Paediatr Neurol*. 2016;20(5):745-9.
10. Cabezas-Camarero S, Sastre J, Polidura MC, Gómez-Ruíz MN, Subhi-Issa I, Alonso Lera P, et al. C8-T1 Radiculopathy Due to an Intradural Extramedullary Metastasis of a Pancreatic Neuroendocrine Tumor: Case Report and Review of the Literature. *Pancreas*. 2016;45(5):772-9.
11. Calleja Kempin J, Colón Rodríguez A, Machado Liendo P, Acevedo A, Martín Gil J, Sánchez Rodríguez T, et al. Liver failure posthepatectomy and biliary fistula: multidisciplinary treatment. *Rev Esp Enferm Dig*. 2016;108(5):287-91.
12. Calvo C, Núñez E, Camacho M, Clemente D, Fernández-Cooke E, Alcobendas R, et al. Epidemiology and Management of Acute, Uncomplicated Septic Arthritis and Osteomyelitis: Spanish Multicenter Study. *Pediatr Infect Dis J*. 2016;Jul 22.
13. Carrero-López VM, Cózar-Olmo JM, Miñana-López B. Benign prostatic hyperplasia and lower urinary tract symptoms. A review of current evidence. *Actas Urol Esp*. 2016;40(5):288-94.
14. Casanova J, Simon C, Vara E, Sanchez G, Rancan L, Abubakra S, et al. Sevoflurane anesthetic preconditioning protects the lung endothelial glycocalyx from ischemia reperfusion injury in an experimental lung autotransplant model. *J Anesth*. 2016;Jun 2.
15. Cascales-Campos PA, López-López V, Muñoz-Casares FC, Feliciangeli E, Torres Melero J, Barrios P, et al. Morbidity and mortality outcomes after cytoreductive surgery and hyperthermic intraperitoneal chemotherapy in patients aged 75 years and over: Spanish group of peritoneal cancer surgery (GECOP) multicenter study. *Surg Oncol*. 2016;25(2):111-6.
16. Crego-Vita D, Aedo-Martín D, Sánchez-Pérez C. Case report of early aseptic loosening of total hip arthroplasty in monostotic paget disease, a diagnostic challenge. *Int J Surg Case Rep*. 2016;24:215-8.
17. Delgado JF, Alonso-Pulpón L, Mirabet S, Almenar L, Villa FP, González-Vílchez F, et al. Cancer Incidence in Heart Transplant Recipients With Previous Neoplasia History. *Am J Transplant*. 2016;16(5):1569-78.

18. Díaz Del Arco C, Aceñero MJF. Sarcoid reaction: a rare occurrence associated to colon adenocarcinoma (case report and literature review). *J Gastrointest Oncol*. 2016;7(4):E72-76.
19. Embun R, Rivas de Andrés JJ, Call S, de Olaiz Navarro B, Freixinet JL, Bolufer S, et al. Causal Model of Survival After Pulmonary Metastasectomy of Colorectal Cancer: A Nationwide Prospective Registry. *Ann Thorac Surg*. 2016;101(5):1883-90
20. Enciso S, Díaz-Güemes I, Serrano Á, Bachiller J, Rioja J, Usón J, et al. Initial validation of a training program focused on laparoscopic radical nephrectomy. *Actas Urol Esp*. 2016;40(4):237-44.
21. Escaned J, Banning A, Farooq V, Echavarría-Pinto M, Onuma Y, Ryan N, et al. Rationale and design of the SYNTAX II trial evaluating the short to long-term outcomes of state-of-the-art percutaneous coronary revascularisation in patients with de novo three-vessel disease. *EuroIntervention*. 2016;12(2):e224-234.
22. ESCP Intestinal Failure Group; Vaizey CJ, Maeda Y, Barbosa E, Bozzetti F, Calvo J, et al. European Society of Coloproctology consensus on the surgical management of intestinal failure in adults. *Colorectal Dis*. 2016;18(6):535-48.
23. Fernández-Ruiz M, Silva JT, López-Medrano F, Allende LM, San Juan R, Cambra F, et al. Post-transplant monitoring of NK cell counts as a simple approach to predict the occurrence of opportunistic infection in liver transplant recipients. *Transpl Infect Dis*. 2016;18(4):552-65.
24. Fuentes S, Martí E, Delgado M-D, Gomez A. Management of the Sequelae of Severe Congenital Abdominal Wall Defects. *Arch Plast Surg*. 2016;43(3):258-64
25. García AI, Aguilar JM, García E. Aortic coarctation, aneurysm, and ventricular dysfunction in an asymptomatic infant. *Cardiol Young*. 2016;26(5):971-2.
26. García-Botella A, Asenjo S, De la Morena-Barrio ME, Corral J, Bolaños E, Carlin PS, et al. First case with antithrombin deficiency, mesenteric vein thrombosis and pregnancy: Multi-disciplinary diagnosis and successful management. *Thromb Res*. 2016;144:72-5.
27. Gil-Jaurena J-M, González-López M-T, Pérez-Caballero R, Pita A, Castillo R, Miró L. [15 years of minimally invasive paediatric cardiac surgery; development and trends]. *An Pediatr (Barc)*. 2016;84(6):304-10.

28. Gil-Jaurena J-M, González-López M-T, Pita-Fernández A, Pérez-Caballero R. Split-graft technique in neonatal heart transplant for aortic atresia. *Interact Cardiovasc Thorac Surg*. 2016;Jun 27.
29. Gil-Martínez P, Sanz P, López-Torres I, Arnal-Burró J, Chana F, Vaquero J. Influence of the cause of the revision on the outcome after revision knee arthroplasty with condylar constrained implant. *Rev Esp Cir Ortop Traumatol*. 2016;60(3):184-91.
30. Gómez-Serrano M, Camafeita E, García-Santos E, López JA, Rubio MA, Sánchez-Pernaute A, et al. Proteome-wide alterations on adipose tissue from obese patients as age-, diabetes- and gender-specific hallmarks. *Sci Rep*. 2016;6:25756.
31. Gómez Serrano M, Iglesias Moreno MC, Gimeno Hernández J, Ortega Medina L, Martín Villares C, Poch Broto J. Cartilage invasion patterns in laryngeal cancer. *Eur Arch Otorhinolaryngol*. 2016;273(7):1863-9.
32. González-López M-T, Cuenca-Peiró V, Castillo-Martín R, Zabala-Argüelles J-I, Gil-Jaurena J-M. Batista Procedure for a Coronary Anomaly in an Infant: Long-Term Follow-Up. *J Card Surg*. 2016;31(8):556-8.
33. González-López M-T, Pérez-Caballero-Martínez R, Granados-Ruiz M-Á, García-Torres E, Álvarez-García-Rovés R, Gil-Villanueva N, et al. End-stage ischemic heart failure and Williams-Beuren syndrome: A unique scenario for pediatric heart transplantation. *Pediatr Transplant*. 2016;20(3):472-6.
34. Guembe M, Martín-Rabadán P, Cruces R, Pérez-Granda MJ, Bouza E. Corrigendum to «Sonicating multi-lumen sliced catheter tips after the roll-plate technique improves the detection of catheter colonization in adults». *J Microbiol Methods*. 2016;127:242
35. Guembe M, Pérez-Granda MJ, Cruces R, Alcalá L, Bouza E. The Tego™ needleless connector for hemodialysis catheters may protect against catheter colonization. *Eur J Clin Microbiol Infect Dis*. 2016;35(8):1341-5.
36. Guembe M, Pérez-Granda MJ, Cruces R, Martín-Rabadán P, Bouza E. Correction for Guembe et al., Cultures of Needleless Connectors Are Useful for Ruling Out Central Venous Catheter Colonization. *J Clin Microbiol*. 2016;54(7):1928.
37. Hernández-Agudo E, Mondejar T, Soto-Montenegro ML, Megías D, Mouron S, Sanchez J, et al. Monitoring vascular normalization induced by antiangiogenic treatment with (18)F-fluoromisonidazole-PET. *Mol Oncol*. 2016;10(5):704-18.

38. Hernández Mateo MM, Martínez López I, Revuelta Suero S, Marqués de Marino P, Cernuda Artero I, Cabrero Fernández M, et al. Impact of the Repositionable C3 Excluder System on the Endovascular Treatment of Abdominal Aortic Aneurysms With Unfavorable Neck Anatomy. *J Endovasc Ther.* 2016;23(4):593-8.
39. Hernando Rydings M, Marín Palacios P, Aragón-Sánchez AM, Bravo Ruiz E, Lopez-Dominguez V, Martínez López I, et al. Development of a Telemetric System for Postoperative Follow-up of Vascular Surgery Procedures: In Vitro Model. *J Am Heart Assoc.* 2016;5(7).
40. Janta I, Morán J, Naredo E, Nieto JC, Uson J, Möller I, et al. How does a cadaver model work for testing ultrasound diagnostic capability for rheumatic-like tendon damage? *Rheumatol Int.* 2016;36(6):863-9.
41. Lalueza A, Cambra F, Urbanowicz M, San Juan R, López-Alonso G, Aguado JM. Photo Quiz: An Unexpected Cause of Progressive Anal Mass. *J Clin Microbiol.* 2016;54(7):1675.
42. Lalueza A, Cambra F, Urbanowicz M, San Juan R, López-Alonso G, Aguado JM. Answer to July 2016 Photo Quiz. *J Clin Microbiol.* 2016;54(7):1935-6.
43. León Ruiz M, Lagares Gómez-Abascal A, Fernández Alén JA, Benito-León J, García-Albea Ristol E. Subarachnoid haemorrhage from a ruptured intracranial mirror-like aneurysm. A case report and literature review. *Neurologia.* 2016;31(4):283-5.
44. López-Padilla D, Peghini Gavilanes E, Revilla Ostolaza TY, Trujillo MD, Martínez Serna I, Arenas Valls N, et al. Arterial Stump Thrombosis after Lung Resection Surgery: Clinical Presentation, Treatment and Progress. *Arch Bronconeumol.* 2016;May 3.
45. De Lossada A, Oteo-Álvaro Á, Giménez S, Oyagüez I, Rejas J. [Cost-effectiveness analysis of celecoxib versus non-selective non-steroidal anti-inflammatory drug therapy for the treatment of osteoarthritis in Spain: A current perspective]. *Semergen.* 2016;42(4):235-43.
46. Luca F, Valvo M, Guerra-Cogorno M, Simo D, Blesa-Sierra E, Biffi R, et al. Functional results of robotic total intersphincteric resection with hand-sewn coloanal anastomosis. *Eur J Surg Oncol.* 2016;42(6):841-7.
47. Marin-Peña Ó, Sierra-Madrid P, Lax-Pérez R, Ferrero-Manzanal F. Extrarticular hip impingement. *Hip Int.* 2016;26 Suppl 1:14-6.

48. Marqués de Marino P, Martínez López I, Revuelta Suero S, Hernández Mateo MM, Cernuda Artero I, Cabrero Fernández M, et al. Results of Infrainguinal Bypass in Acute Limb Ischaemia. *Eur J Vasc Endovasc Surg.* 2016;51(6):824-30.
49. Marques de Marino P, Martinez Lopez I, Hernandez Mateo MM, Cernuda Artero I, Cabrero Fernandez M, Reina Gutierrez MT, et al. Open Versus Endovascular Treatment for Patients with Post-Carotid Endarterectomy Restenosis: Early and Long-term Results. *Ann Vasc Surg.* 2016;Jun 27.
50. Martínez-Díaz-Guerra G, Guadalix S, Aramendi M, Librizzi S, García E, Jiménez C, et al. Serum Levels of Osteocalcin and Insulin Resistance in Patients with Impaired Glucose Tolerance or New-Onset Diabetes Mellitus After Liver Transplantation. *Horm Metab Res.* 2016;48(5):325-30.
51. Martínez-Jabaloyas JM, Castelló-Porcar A, González-Baena AC, Cózar-Olmo JM, Miñana-López B, Gómez-Veiga F, et al. Influence of demographic and tumour variables on prostate cancer treatment with curative intent in Spain. Results of the 2010 national prostate cancer registry. *Actas Urol Esp.* 2016;May 31.
52. Martínez-Losas P, Higuera J, Gómez-Polo JC, Brabyn P, Ferrer JMF, Godoy VC, et al. The influence of computerized interpretation of an electrocardiogram reading. *Am J Emerg Med.* 2016;Jul 20.
53. Martinez-Perez R, Hinojosa J, Pascual B, Panaderos T, Welter D, Munoz MJ. Rare location of arachnoid cysts. Extratemporal cysts. *Neurocirugia.* 2016;27(3):121-8.
54. Martini F, Paolino L, Marzano E, D'Agostino J, Lazzati A, Schneck A-S, et al. Single-Anastomosis Pylorus-Preserving Bariatric Procedures: Review of the Literature. *Obes Surg.* 2016;Jul 29.
55. Minana B, Rodriguez-Antolin A, Gomez-Veiga F, Hernandez C, Suarez JF, Fernandez-Gomez JM, et al. Treatment trends for clinically localised prostate cancer. National population analysis: GESCAP group. *Actas Urol Esp.* 2016;40(4):209-16.
56. Mourino-Alvarez L, Iloro I, de la Cuesta F, Azkargorta M, Sastre-Oliva T, Escobes I, et al. MALDI-Imaging Mass Spectrometry: a step forward in the anatomopathological characterization of stenotic aortic valve tissue. *Sci Rep.* 2016;6:27106.

57. Navas-Sánchez FJ, Carmona S, Alemán-Gómez Y, Sánchez-González J, Guzmán-de-Villoria J, Franco C, et al. Cortical morphometry in frontoparietal and default mode networks in math-gifted adolescents. *Hum Brain Mapp.* 2016;37(5):1893-902.
58. Perea J, Arriba M, Rueda D, Sánchez R, García JL, Pérez J, et al. Comment on «Wild-type APC prediction of poor prognosis in microsatellite-stable proximal colorectal cancer differs according to the age of onset». *Br J Cancer.* 2016;114(10):e7.
59. Pereira Pérez F, Calvo Espino P, Sánchez Arteaga A, Muñoz Rodríguez JM, Nges LW, Kemmoe M, et al. Thyroid surgery at a volunteer program in Sub-Saharan Africa. *Cir Esp.* 2016;94(7):404-9.
60. Perez A, Navas I, Herencias A, Marco F, Sanudo J, Simon C, et al. Morphometry of the suprascapular nerve in the supraspinous fossa. *Eur J Anat.* 2016;20(3):215-20.
61. Pérez-Caballero-Martínez R, Pita-Fernández A, González-López M-T, De-Agustín-Asensio J-C, Gil-Jaurena J-M. Combined Ablation and Exclusion of the Left Atrial Appendage in a Pediatric Patient: A Minimally Invasive Simplified Approach. *Ann Thorac Surg.* 2016;101(6):2379-82.
62. Jesus Perez-Granda M, Guembe M, Cruces R, Bouza E. Vascular catheter colonization: surveillance based on culture of needleless connectors. *Crit Care.* 2016;20:166.
63. Pérez-Granda MJ, Guembe M, Rincón C, Muñoz P, Bouza E. Erratum to: «Effectiveness of a training program in compliance with recommendations for venous lines care». *BMC Infect Dis.* 2016;16(1):313.
64. Prada-Cañizares A, Auñón-Martín I, Vilá Y Rico J, Pretell-Mazzini J. Subtalar dislocation: management and prognosis for an uncommon orthopaedic condition. *Int Orthop.* 2016;40(5):999-1007.
65. Quarante LHG, Mena-Bernal JH, Martín BP, Carrasco MR, Casado MJM, de Aragón AM, et al. Posterior reversible encephalopathy syndrome (PRES): a rare condition after resection of posterior fossa tumors: two new cases and review of the literature. *Childs Nerv Syst.* 2016;32(5):857-63.
66. Quintana-Villamandos B, Arnalich-Montiel A, Arribas S, Lüneburg N, Böger RH, Delgado-Martos MJ, et al. Early regression of coronary artery remodeling with esmolol and DDAH/ADMA pathway in hypertensive rats. *Hypertens Res.* 2016;Jun 2.

67. Ramos A, García-Montero C, Moreno A, Muñoz P, Ruiz-Morales J, Sánchez-Espín G, et al. Endocarditis in patients with ascending aortic prosthetic graft: a case series from a national multicentre registry. *Eur J Cardiothorac Surg.* 2016; Jun 9.
68. Revuelta Suero S, Martínez López I, Hernández Mateo M, Marqués de Marino P, Cernuda Artero I, Cabrero Fernández M, et al. Outcomes of the Endovascular Treatment of Stenotic Lesions versus Chronic Total Occlusions in the Iliac Sector. *Ann Vasc Surg.* 2016;34:157-63.
69. Sagarra Cebolla E, López Baena JÁ, Carrasco Muñoz S, Del Corral Rodriguez J, Lozano Lominchar P. Primary adrenal lymphoma; a rare entity in the differential diagnosis of suprarrenal tumours. *Cir Esp.* 2016;Jun 10.
70. Salinas-Casado J, Mendez-Rubio S, Pesquera-Ortega L, Virseda-Chamorro M, Gutierrez-Martin P, Resel-Folkersma L, et al. Usefulness of urodynamics in the treatment of mixed urinary incontinence in women with suburethral slings. *Arch Esp Urol.* 2016;69(4):172-7.
71. Sánchez PL, Fernández-Santos ME, Espinosa MA, González-Nicolas MA, Acebes JR, Costanza S, et al. Data from acellular human heart matrix. *Data Brief.* 2016;8:211-9.
72. Sánchez-Santos R, Corcelles Codina R, Vilallonga Puy R, Delgado Rivilla S, Ferrer Valls JV, Foncillas Corvinos J, et al. Prognostic Factors for Morbimortality in Sleeve Gastrectomy. The Importance of the Learning Curve. A Spanish-Portuguese Multicenter Study. *Obes Surg.* 2016;May 19.
73. Sanz-Ruiz P, Carbo-Laso E, Alonso-Polo B, Antonio Matas-Diez J, Vaquero-Martin J. Does a new implant design with more physiological kinematics provide better results after knee arthroplasty? *Knee.* 2016;23(3):399-405.
74. de la Serna S, García-Botella A, Fernández-Aceñero M-J, Esteban F, Diez-Valladares L-I. Ciliated hepatic foregut cysts: A differential diagnosis in hepatic lesions located in segment iv. *Cir Esp.* 2016;May 25.
75. Serrano Mateo L, Goudarz Mehdikhani K, Cáceres L, Lee Y-Y, Gonzalez Della Valle A. Topical Tranexamic Acid May Improve Early Functional Outcomes of Primary Total Knee Arthroplasty. *J Arthroplasty.* 2016;31(7):1449-52.
76. Simal I, Parente A, Burgos L, Ortiz R, Martínez AB, Rojo R, et al. Therapeutic possibilities for urolithiasis in childhood. *Actas Urol Esp.* 2016;Jun 8.

77. De Simone P, Romagnoli R, Tandoi F, Carrai P, Ercolani G, Peri E, et al. Early Introduction of Subcutaneous Hepatitis B Immunoglobulin Following Liver Transplantation for Hepatitis B Virus Infection: A Prospective, Multicenter Study. *Transplantation*. 2016;100(7):1507-12.
78. Soto-Montenegro ML, Pascau J, Desco M. Erratum to: Response to Deep Brain Stimulation in the Lateral Hypothalamic Area in a Rat Model of Obesity: In Vivo Assessment of Brain Glucose Metabolism. *Mol Imaging Biol*. 2016;18(3):472.
79. Soto-Montenegro ML, Vicente-Rodríguez M, Pérez-García C, Gramage E, Desco M, Heradón G. Corrigendum to «Functional neuroimaging of amphetamine-induced striatal neurotoxicity in the pleiotrophin knockout mouse model». *Neurosci Lett*. 2016;623:79.
80. Tirado-Conte G, Freitas-Ferraz AB, Nombela-Franco L, Jimenez-Quevedo P, Biagioni C, Cuadrado A, et al. Incidence, Causes, and Impact of In-Hospital Infections After Transcatheter Aortic Valve Implantation. *Am J Cardiol*. 2016;118(3):403-9.
81. Toro G, Ojeda-Thies C, Calabrò G, Toro G, Moretti A, Guerra GM-D, et al. Management of atypical femoral fracture: a scoping review and comprehensive algorithm. *BMC Musculoskelet Disord*. 2016;17:227.
82. Valencia Orgaz O, Real Navacerrada MI, Cortés Guerrero M, García Gutierrez AF, Marrón Fernández C, Pérez-Cerdá Silvestre F. Lung isolation in patients with previous lung resections: Selective sequential lobar blockade using a Fuji Uniblocker[®] endobronchial blocker. *Rev Esp Anesthesiol Reanim*. 2016;Jul 12.
83. Vaquero J, Forriol F. Meniscus tear surgery and meniscus replacement. *Muscles Ligaments Tendons J*. 2016;6(1):71-89.
84. Villar Álvarez F, Muguruza Trueba I, Belda Sanchis J, Molins López-Rodó L, Rodríguez Suárez PM, Sánchez de Cos Escuín J, et al. Executive summary of the SEPAR recommendations for the diagnosis and treatment of non-small cell lung cancer. *Arch Bronconeumol*. 2016;52(7):378-88.