

FARMACI CON USO CONSOLIDATO NEL TRATTAMENTO CORRELATO AI TRAPIANTI PER INDICAZIONI ANCHE DIFFERENTI DA QUELLE PREVISTE DAL PROVVEDIMENTO DI AUTORIZZAZIONE ALL'IMMISSIONE IN COMMERCIO

Principio attivo	Estensione di indicazione relative ad usi consolidati sulla base di evidenze scientifiche presenti in letteratura
Basiliximab	<p>Profilassi del rigetto acuto in pazienti adulti e pediatrici sottoposti a trapianto di fegato e a trapianto isole di Langerhans.</p> <p>Profilassi del rigetto acuto in pazienti adulti sottoposti a trapianto di rene e pancreas.</p> <p>M. Spada et al. Randomized Trial of Basiliximab Induction versus steroid Therapy in Pediatric Liver Allograft Recipients Under Tacrolimus Immunosuppression Am. J. Transplantation 2006; 6: 1913-1921.</p> <p>S. Gruttadauria et al. A Safe Immunosuppressive Protocol in Adult to-Adult Living Related Liver Transplantation. Transplant Proc 38, 1106-1108 (2006).</p> <p>Laura Lladò et al. Immunosuppression without steroids in liver transplantation is safe and reduces infection and metabolic complications: Results from a prospective multicenter randomized study. J. Hepatol 44 /(2006) 710-718.</p> <p>D.W. Orr et al. Anti-Interleukin 2 Receptor Antibodies and Mycorphenolate Mofetil for Treatment of Steroid - Resistant Rejection in Adult Liver Transplantation. Transplant Proc 37, 4373-4379 (2005).</p> <p>R. Ganschow et al. Long.-tern results of basiliximab induction immunosuppression in paediatric liver transplants recipients. Pediatr Transplantation 2005; 9: 741-745</p> <p>M. Spada et al. An anti-interleukin 2 receptor monoclonal antibody to reduce the incidence of acute cellular rejection afetr liver transplantation. Pediatr Transplantation 2000, Vol 4., p. 62 (Abs P49).</p> <p>R. Ganschow et al. The anti-interleukin 2 receptor antodoby basiliximavb after pediatric liver transplantation: a pilot study. Pediatr Transplantation 2000, Vol. 4, p. 95 (Abs O145).</p> <p>R: Ganschow et al. First experience with basiliximab in pediatric liver graft recipients. Pediatr Transplantation 2001, Vol. 5, p. 353-358.</p>

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	<p>F. Filipponi et al. Study of Simulect-Based, Steroid-Free Immunosuppressive Regimen in HCV+ De Novo Liver Transplant Patients: Preliminary Results. Transplantation Proceedings 33, 3211-3212 (2001).</p> <p>D.A. Kelly The use of anti-interleukin 2 receptor antibodies in pediatric liver transplantation. Pediatr Transplantation 2001; 5: 386-389.</p> <p>P. Neuhaus et al. Improved Treatment Response With Basixilimab Immunoprophylaxis After Liver Transplantation: Results from a Double-Blind Randomized Placebo-Controlled Trial. Liver Transplantation 2002, Vol. 8, 132-142.</p> <p>M. Cantarovich et al. Anti-CD25 Monoclonal antibody coverage allows for calcineurin inhibitor "Holiday" in solid organ transplant patients with acute renal dysfunction. Transplantation Vol 73 n 7.</p> <p>B. Nashan. The Interleukin "Pathway" and the Route to Logical Immunosuppression. Current Issues in Liver and Small Bowel Transplantation 2002, 9, 164-174.</p> <p>E. Kuse et al. Immunoprophylaxis with Simulect® (Basixilimab) in combination with Cyclosporine and Steroids in Liver Transplantation. American Journal of Transplantation 2001, vol 1, p 202 (Abs 266).</p> <p>A. Venze et al. Basixilimab monotherapy following B-cell lymphoma after pediatric liver transplantation and anti-CD20 therapy. Pediatr Transplantation 2003; 7: 404-407.</p> <p>R. Reding et al. Steroid-free liver transplantation in children. Lancet 2003; 362: 2068-70.</p> <p>C.L. Liu et al. Interleukin 2-Receptor Antibody (Basixilimab) for Immunosuppressive Induction Therapy After Liver Transplantation: A Protocol With Early Elimination of Steroids and Reduction of Tacrolimus Dosage. Liver Transplantation, 10: No. 6 (June) 728-733.</p> <p>S. Grattaduria et al. Basixilimab in a Triple-Drug Regimen with Tacrolimus and Steroids in Liver Transplantation. Transplantation Proceedings, 37, 2611-2613 (2005).</p> <p><u>Trapianto di isole di Langerhans</u> Oberholzer J, Toso C, Triponez F, Ris F, Bucher P, et al: Human islet allotransplantation with Basiliximab in type I diabetic patients with end-stage renal failure. Transplantation Proceedings, 34, (3) 823-825</p>

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	<p><u>Trapianto di Rene-Pancreas</u> Zhang R, Florman S, Devidoss S, Zarifian A, Yau CL, Paramesh A, Killackey M, Alper B, Fonseca V, Slakey D. A comparison of long-term survivals of simultaneous pancreas-kidney transplant between African American and Caucasian recipients with basiliximab induction therapy. Am J Transplant. 2007 Jul;7(7):1815-21.</p> <p>Boggi U, Vistoli F, Del Chiaro M, Signori S, Amorese G, Vahadia Bartolo T, Sgambelluri F, Barsotti M, Tregnaghi C, Paleologo G, Coppelli A, Giannarelli R, Rizzo G, Marchetti P, Mosca F. Neoral versus prograf in simultaneous pancreas-kidney transplantation with portal venous drainage: three-year results of a single-center, open-label, prospective, randomized pilot study. Transplant Proc. 2005 Jul-Aug;37(6):2641-3.</p> <p>Chow FY, Polkinghorne K, Saunder A, Kerr PG, Atkins RC, Chadban SJ. Historical controlled trial of OKT3 versus basiliximab induction therapy in simultaneous pancreas-renal transplantation. Nephrology (Carlton). 2003 Aug;8(4):212-6.</p> <p>Profilassi del rigetto acuto in pazienti adulti e pediatrici sottoposti a trapianto di cuore.</p> <p><u>Trapianto di cuore</u> J. Segovia et al A randomized Multicenter Comparison of Basiliximab and Muromonab (OKT3) in Heart Transplantation: SIMCOR Study . Transplantation 2006; 81:1542-1548</p> <p>F.M. Mattei et al. Lower Risk of Infectious Deaths in Cardiac Transplant Patients Receiving Basiliximab versus Anti-thymocyte Globulin as Induction Therapy J Heart Lung Transplantation 2007; 26:693-9</p> <p>Katrina A. Ford et al. Initial Data on Basiliximab in Critically Children Undergoing Heart Transplantation J Heart Lung Transplantation 2005; 24:1284-88</p> <p>K.M. Ward et al. Basiliximab in pediatric heart transplantation-Initial Experience J Heart Lung Transplantation 2004; Abs 103 – Vol 23 – Number 2S</p> <p>Terapia immunodepressiva e antirigetto in pazienti adulti e pediatrici sottoposti a tx di intestino e multi-viscerale.</p>

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	<p>Adenovirus Infections in Pediatric Small Bowel Transplant Recipients, Diana F. Florescu, Monirul K. Islam, David F. Mercer, Wendy Grant, Alan N. Langnas, Alison G. Freifeld, Debra Sudan, Rishika Basappa, Dominick Dimaio, and Andre C. Kalil, Transplantation 2010;90: 198–204</p> <p>Graft-vs-host disease after small bowel transplantation in children, Ane M. Andres, Manuel Lopez Santamaría, Esther Ramos, Jesus Sarriá, Manuel Molina, Francisco Hernandez, Jose L. Encinas, Javier Larrauri, Gerardo Prieto, Juan Antonio Tovar, Department of Pediatric Surgery, Hospital Universitario La Paz, Paseo de la Castellana 261, 28046 Madrid, Spain, 27 October 2009, Journal of Pediatric Surgery (2010) 45, 330–336</p> <p>Basiliximab Decreases the Incidence of Acute Rejection After Intestinal Transplantation, D.L. Sudan, S. Chinnakotla, S. Horslen, K. Iyer, I. Fox, B. Shaw Jr, and A.N. Langnas, Transplantation Proceedings, 34, 940–941 (2002)</p> <p>Incidence and outcome of fungal infections in pediatric small bowel transplant recipients, D.F. Florescu, K.M. Islam, W. Grant, D.F. Mercer, A. Langnas, J. Botha, B. Nielsen, A.C. Kalil, Transpl Infect Dis 2010, 1-8.</p> <p>Graft-versus-Host Disease Presenting With Pancytopenia After En Bloc Multiorgan Transplantation: Case Report and Literature Review, R. Mawad, A. Hsieh, and L. Damon, Transplantation Proceedings, 41, 4431–4433 (2009).</p> <p>Intestinal transplantation before and after the introduction of sirolimus Thomas M. Fishbein, Sander Florman, Gabriel Gondolesi, Thomas Schiano, Neal Leleiko, Allan Tschernia, and Stuart Kaufman, Transplantation, Vol. 73, 1538–1542, No. 10, May 27, 2002.</p> <p>In associazione con ciclosporina, micofenolato mofetile e metrotressato, per la profilassi della aGVHD in pazienti sottoposti a trapianto allogenico di cellule staminali ematopoietiche non manipolate da donatore familiare HLA aploidentico refrattari alla terapia con corticosteroidi.</p> <p>Humanized anti-CD25 monoclonal antibody for prophylaxis of graft-versus-host disease (GVHD) in haploidentical bone marrow transplantation without ex vivo T-cell depletion. Chen HR, Ji SQ, Wang HX et al. Exp Hematol 2003; 31:1019-1025.</p> <p>Anti-CD25 monoclonal antibody (basiliximab) for prevention of graft-versus-host disease after haploidentical bone marrow transplantation for hematological malignancies. Ji SQ, Chen HR, Yan HX et al. Bone Marrow Transplantation 2005; 36:349-354.</p>

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	<p>Haploidentical hematopoietic stem cell transplantation in hematologic malignancies with G-CSF mobilize bone marrow plus peripheral blood stem cells grafts without T cell depleted: a single center report of 29 cases. Wang HX, Yan HM, Wang ZD et al. Leukemia & Lymphoma 2012; 53:654-659.</p> <p>Prophylaxis of graft-versus-host disease by administration of the murine anti-IL-2 receptor antibody 2A3. Anasetti C, Martin PJ, Storb R et al. Bone Marrow Transplant 1991; :375-381.</p> <p>Comparative in vitro study of the immunomodulatory activity of humanized and chimeric anti-CD25 monoclonal antibodies. Kircher B, Lätzer K, Gastl G and Nachbaur D. Clin Exp Immunol 2003; 134:426-430.</p> <p>Prophylactic effects of interleukin-2 receptor antagonists against graft-versus-host disease following unrelated donor peripheral blood stem cell transplantation. Fang J, Hu C, Hong M et al. Biol Blood Marrow transplant 2012; 18:745-762.</p> <p>Haploidentical, unmanipulated, G-CSF-primed bone marrow transplantation for patients with high-risk hematologic malignancies. Di Bartolomeo P, Santarone S, De Angelis G et al. Blood 2012; 121:849-857.</p>
<p>Everolimus 0,25/0,5/0,75/1mg</p>	<p>Profilassi del rigetto acuto in pazienti pediatrici sottoposti a trapianto di rene.</p> <p>Profilassi del rigetto acuto in pazienti adulti sottoposti a trapianto di polmone.</p> <p>Pazienti con trapianto di fegato che necessitano la riduzione/sospensione nell'inibitore della calcineurina con problemi di tossicità renale.</p> <p>L.Pape et al. Reversal of loss of glomerular filtration rate in children with transplant nephropathy after switch to everolimus and low-dose cyclosporine A. Pediatr Transplantation 2007; 11: 291-293</p> <p>Vester U et al. Everolimus (Certican) in combination with Neoral in Pediatric Renal Transplant Recipients: Interim analysis after 3 Months. Transplantation Proceedings, 34, 2209-2210 (2002)</p> <p>P. Hoyer et al. Everolimus in Pediatric de Novo Renal Transplant Patients. Transplantation Vol 75; 2082-2085 (2003)</p> <p>R. Van Damme-Lombaerts et al. Single-dose pharmacokinetics and tolerability of everolimus in stable pediatric renal transplant patients. Pediatric Transplantation 2002; 6: 147-152</p>

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	<p>J.M. Kovarik et al. Everolimus in Pulmonary Transplantation: Pharmacokinetics and Exposure-Response Relationship. The Journal of Heart and Lung Transplantation Vol. 25 No 4 (2006)</p> <p>Everolimus versus Azathioprine in Maintenance Lung Transplant Recipients: An International, Randomized Double-Blind Clinical Trial. American Journal of Transplantation 2006; 6: 169-177</p> <p>Azzola et al. Everolimus and Mycophenolate Mofetil are potent inhibitors of fibroblast proliferation after lung Transplantation. Transplantation Vol 77, No. 4 (2004)</p> <p>G. Everson. Everolimus and mTOR Inhibitors in Liver Transplantation: Opening the "Box". Liver Transplantation 12: 1571-1573, 2006</p> <p>C.D. Poirier Promise of Neoral C2; Basiliximab and Everolimus in Lung Transplantation. Transplantation Proceedings, 36 (Suppl 2S)N, 509S-513S (2004)</p> <p>Levy et al. Safety, Tolerability and Efficacy of Everolimus in De Novo Liver Transplant Recipients: 12-and 36-Month Results. Liver Transplantation 12: 1640-1648, 2006</p> <p>Trapianto di fegato pediatrico</p> <p>Katrina A. Ford Paediatric Immunosuppression Following Solid Organ Transplantation Arch Dis Child Educ Ed 2006; 91:87-91</p> <p>Terapia immunodepressiva e antirigetto in pazienti adulti e pediatrici sottoposti a tx di intestino e multi-viscerale.</p> <p>Persistent effects of everolimus on strength of experimental wounds in intestine and fascia, Martine C. M. Willems, MD1; J. Adam van der Vliet, MD, PhD1; Ben M. de Man, BSc1; Jeroen A. W. M. van der Laak, PhD2; Roger M. L. M. Lomme, BSc1; Thijs Hendriks, PhD1, Wound Rep Reg (2010) 18; 98–104</p>

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<p>Fattori di crescita dei leucociti:</p> <ul style="list-style-type: none"> • filgrastim • lenograstim 	<p>Neutropenia (neutrofili < 750/L) nei pazienti trapiantati di fegato o con diagnosi clinica di cirrosi, che presentano risposta virologica precoce alla terapia.</p> <p>Manns MP, et al. and the International Hepatitis Interventional Therapy Group. Peginterferon alfa-2b plus ribavirin compared with interferon alfa-2b plus ribavirin for initial treatment of chronic hepatitis C: a randomised trial. Lancet 2001;358:958-65.</p> <p>Fried MW, et al. Peg Interferon alf 2a plus Ribavirin in chronic hepatitis C virus infection. N Engl J Med 2002; 347: 975-82.</p> <p>Higashi Y, et al. Case report: agranulocytosis induced by inteferon alpha therapy for chronic hepatitis C J Gastroenterol Hepatol 1996; 11:1012-1015.</p> <p>Van Thiel DH, et al. Combination treatment of advanced HCV associated liver disease with interferon and G-CSF. Hepatogastroenterology 1995; 42:907-12</p> <p>Fukuda A, et al. Effects of interferon alpha on peripheral neutrophil counts and serum granulocyte colony-stimulating factor for the treatment of chronic hepatitis C Cell Mol Ther 2000; 6:149-154.</p> <p>Carreno V, et al. Randomized controlled trial of recombinant human granulocyte-macrophage colony-stimulating factor for the treatment of chronic hepatitis C Cytokine 2000; 12: 165-70.</p> <p>Shiffman ML, et al. Use of granulocyte macrophage colony stimulating factor alone or in combination with interferon-alpha-2b for treatment of chronic hepatitis C J Hepatol 1998; 28: 382-89.</p> <p>National Institutes of health consensus development conference statement: Management of hepatitis C: 2002 – June 10-12 2002. Hepatology 2002; 36: S3-S20.</p> <p>Neutropenia nei pazienti trapiantati di rene</p> <p>Hurst FP et al. Poor outcomes associated with neutropenia after kidney transplantation: analysis of United States Renal Data System. Transplantation. 2011 Jul 15;92(1):36-40.</p> <p>Zafrani L, et al. Incidence, risk factors and clinical consequences of neutropenia following kidney transplantation: a</p>

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	retrospective study. Am J Transplant. 2009;9(8):1816-25.
Fotemustina (e.v.)	In sostituzione della carmustina nel condizionamento BEAM. Musso M. et al., Bone Marrow Transplantation 2009 November 1-7.
Immunoglobulina di coniglio antitimocitaria	<p>Trattamento e profilassi della malattia acuta e cronica da trapianto verso ospite (Graft versus Host Disease, GvHD) nei pazienti adulti refrattari alla terapia di I linea con corticosteroidi</p> <p>Profilassi e trattamento della malattia acuta e cronica da trapianto verso ospite (Graft versus Host Disease, GvHD) nei pazienti pediatrici refrattari alla terapia di I linea con corticosteroidi</p> <p>Regime di condizionamento nel trapianto autologo per malattie autoimmuni</p> <p>Use of antithymocyte globulin for treatment of steroid-refractory acute graft-versus-host disease: an international practice survey B Hsu, R May, G Carrum, R Krance and D Przepiorka Bone Marrow Transplantation (2001) 28, 945–950.</p> <p>Treatment of acute graft-versus-host disease with low-dose, alternate-day antithymocyte globulin Francesco Graziani, Maria Teresa Van Lint, Alida Dominiotto, Anna Maria Raiola, Carmela Di Grazia, Teresa Lamparelli, Francesca Gualandi, Stefania Bregante, Merilù Fiorone, Barbara Bruno, Andrea Bacigalupo haematologica 2002; 87:973-978.</p> <p>Fludarabine, cyclophosphamide and anti-thymocyte globulin for alternative donor transplants in acquired severe aplastic anemia: a report from the EBMT-SAA Working Party. A Bacigalupo, F Locatelli, E Lanino, J Marsh, G Socie', S Maury, A Prete, A Locasciulli, S Cesaro and J Passweg, for the Severe Aplastic Anemia Working Party of the European Group for Blood and Marrow Transplantation (SAA WP-EBMT) Bone Marrow Transplantation (2005) 36, 947–950.</p> <p>Fludarabine, cyclophosphamide plus thymoglobulin conditioning regimen for unrelated bone marrow transplantation in severe aplastic anemia HJ Kang, HY Shin, HS Choi and HS Ahn. Bone Marrow Transplantation (2004) 34, 939–943.</p> <p>Reduced intensity conditioning using intravenous busulfan, fludarabine and rabbit ATG for children with nonmalignant</p>

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	<p>disorders and CML. B Horn, L-A Baxter-Lowe, L Englert, A McMillan, M Quinn, K DeSantes and M Cowan. Bone Marrow Transplantation (2006) 37, 263–269.</p> <p>Nonmyeloablative stem cell transplantation for nonmalignant diseases in children with severe organ dysfunction A Kikuta, M Ito, K Mochizuki, M Akaihata, K Nemoto, H Sano and H Ohto. Bone Marrow Transplantation (2006) 38, 665–669.</p> <p>Use of antithymocyte globulin for treatment of steroid-refractory acute graft-versus-host disease: an international practice survey. B Hsu, R May, G Carrum, R Krance and D Przepiorka. Bone Marrow Transplantation (2001) 28, 945–950.</p> <p>Favourable response to antithymocyte globulin therapy in resistant acute graft-versus-host disease.A. Tagliabue, P. Corti, E Viganò, S. Bonanomi, C. Uderzo. Bone Marrow Transplantation (2005) 36, 45.</p> <p>Once-Daily Intravenous Busulfan Given with Fludarabine as Conditioning for Allogeneic Stem Cell transplantation: Study of Pharmacokinetics and Early Clinical Outcomes.J. A. Russell, H. T. Tran, D. Quinlan, A. Chaudhry, P. Duggan, C. Brown, D. Stewart, J. D. Ruether, D. Morris, S. Glück, E. Gyonyor, B. S. Andersson Biology of Blood and Marrow Transplantation 8:468-476 (2002).</p> <p>Graft-versus-host disease following allogeneic transplantation from HLA-identical sibling with antithymocyte globulin–based reduced-intensity preparative regimen. Mohamad Mohty, Jacques-Olivier Bay, Catherine Faucher, Bachra Choufi, Karin Bilger, Olivier Tournilhac, Norbert Vey, Anne-Marie Stoppa, Diane Coso, Christian Chabannon, Patrice Viens, Dominique Maraninchi, and Didier Blaise. Blood, 15 July 2003 - Vol 102, Number 2.</p> <p>Antithymocyte globulin affects the occurrence of acute and chronic graft-versus-host disease after a reduced-intensity conditioning regimen by modulating mixed chimerism induction and immune reconstitution. Nakai K, Mineishi S, Kami M, Saito T, Hori A, Kojima R, Imataki O, Hamaki T, Yoshihara S, Ohnishi M, Kim SW, Ando T, Fumitoh A, Kanda Y, Makimoto A, Tanosaki R, Kanai S, Heike Y, Ohnishi T, Kawano Y, Wakasugi H, Takaue Y. Transplantation 2003 Jun 27;75(12):2135-43</p> <p>Reduced-intensity preparative regimen and allogeneic stem cell transplantation for advanced solid tumors. Blaise D, Bay JO, Faucher C, Michallet M, Boiron JM, Choufi B, Cahn JY, Gratecos N, Sotto JJ, François S, Fleury J, Mohty M, Chabannon C, Bilger K, Gravis G, Viret F, Braud AC, Bardou VJ, Maraninchi D, Viens P. Blood 2004 Jan 15;103(2):435-41.</p> <p>Protective Conditioning for Acute Graft-versus-Host Disease. Robert Lowsky, M.D., Tsuyoshi Takahashi, M.D., Ph.D., Yin Ping Liu, M.D., Sussan Dejbakhsh-Jones, M.S., F. Carl Grumet, M.D., Judith A. Shizuru, M.D., Ph.D., Ginna G. Laport, M.D., Keith E. Stockerl-Goldstein, M.D., Laura J. Johnston, M.D., Richard T. Hoppe, M.D., Daniel A. Bloch, Ph.D., Karl G. Blume, M.D., Robert</p>

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	<p>S. Negrin, M.D., and Samuel Strober, M.D. N Engl J Med Sept 29, 2005 353;13.</p> <p>Reduced Incidence of Acute and Chronic Graftversus-Host Disease with the Addition of Thymoglobulin to a Targeted Busulfan/Cyclophosphamide Regimen. H. Joachim Deeg, Barry E. Storer, Michael Boeckh, Paul J. Martin, Jeannine S. McCune, David Myerson, Shelly Heimfeld, Mary E. Flowers, Claudio Anasetti, Kristine C. Doney, John A. Hansen, Hans-Peter Kiem, Richard A. Nash, Paul V. O'Donnell, Jerald P. Radich, Brenda M. Sandmaier, Bart L. Scott, Mohamed L. Sorrow, E. Houston Warren, Robert P. Witherspoon, Ann Woolfrey, Frederick R. Appelbaum, Rainer Storb. Biology of Blood and Marrow Transplantation 12:573-584 (2006).</p> <p>Allogeneic transplantation for adult acute leukemia in first and second remission with a novel regimen incorporating daily intravenous busulfan, fludarabine, 400 CGY total-body irradiation, and Thymoglobulin. Russell JA, Savoie ML, Balogh A, Turner AR, Larratt L, Chaudhry MA, Storek J, Bahlis NJ, Brown CB, Quinlan D, Geddes M, Stewart DA. Biol Blood Marrow Transplant. 2007 Jul;13(7):814-21.</p> <p>Adult Recipients of Matched Related Donor Blood Cell Transplants Given Myeloablative Regimens Including Pretransplant Antithymocyte Globulin Have Lower Mortality Related to Graft-versus-Host Disease: A Matched Pair Analysis. James A. Russell, A. Robert Turner, Loree Larratt, Ahsan Chaudhry, Donald Morris, Christopher Brown,1,2 Diana Quinlan, Douglas Stewart. Biology of Blood and Marrow Transplantation 13:299-306 (2007).</p> <p>Autologous hematopoietic stem cell transplantation for autoimmune diseases: an observational study on 12 years' experience from the European Group for Blood and Marrow Transplantation Working Party on Autoimmune Diseases. Farge D, Labopin M, Tyndall A, Fassas A, Mancardi GL, Van Laar J, Ouyang J, Kozak T, Moore J, Kötter I, Chesnel V, Marmont A, Gratwohl A, Saccardi R. Haematologica. 2010 Feb;95(2):284-92</p> <p>Autologous stem cell transplantation for progressive multiple sclerosis: update of the European Group for Blood and Marrow Transplantation autoimmune diseases working party database. Saccardi R, Kozak T, Bocelli-Tyndall C, Fassas A, Kazis A, Havrdova E, Carreras E, Saiz A, Löwenberg B, te Boekhorst PA, Gualandio F, Openshaw H, Longo G, Pagliai F, Massacesi L, Deconink E, Ouyang J, Nagore FJ, Besalduch J, Lisukov IA, Bonini A, Merelli E, Slavino S, Gratwohl A, Passweg J, Tyndall A, Steck AJ, Andolina M, Capobianco M, Martin JL, Lugaresi A, Meucci G, Sáez RA, Clark RE, Fernandez MN, Fouillard L, Herstenstein B, Koza V, Cocco E, Baurmann H, Mancardi GL; Autoimmune Diseases Working Party of EBMT. Mult Scler. 2006 Dec;12(6):814-23.</p> <p>Haematopoietic SCT in severe autoimmune diseases: updated guidelines of the European Group for Blood and Marrow Transplantation. Snowden JA, Saccardi R, Allez M, Ardizzone S, Arnold R, Cervera R, Denton C, Hawkey C, Labopin M,</p>

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	<p>Mancardi G, Martin R, Moore JJ, Passweg J, Peters C, Rabusin M, Rovira M, van Laar JM, Farge D; EBMT Autoimmune Disease Working Party (ADWP); Paediatric Diseases Working Party (PDWP). Bone Marrow Transplant. 2012 Jun;47(6):770-90</p> <p>Profilassi degli episodi di rigetto acuto dopo trapianto di polmone in soggetti con fibrosi cistica</p> <p>Jaksch P, et al. Antithymocyte globulin induction therapy improves survival in lung transplantation for cystic fibrosis. Transpl Int. 2013 Jan;26(1):34-41.</p>
Micofenolato Mofetile	<p>Trapianto cuore pediatrico Trapianto fegato pediatrico Trapianto pancreas Trapianto polmone Trapianto isole di Langerhans Profilassi e trattamento della GVHD nel trapianto di cellule staminali emopoietiche nei pazienti refrattari alla terapia di I linea con corticosteroidi</p> <p><u>Trapianto di cuore pediatrico</u> J. Agüero et al. Influence of Immunosuppression Regimen on Heart Transplantation Survival. Transplantation Proceedings 2006; 38: 2550–2</p> <p>Olivia Boyer et al. Improvement of Renal Function in Pediatric Heart Transplant Recipients Treated with Low-Dose Calcineurin Inhibitor and Mycophenolate Mofetil. Transplantation 2005; 79 (10): 1405–1410 Dipchand AI et al. Mycophenolate mofetil in pediatric heart transplant recipients: A single-center experience. Pediatr Transplantation 2001; 5: 112–118.</p> <p>Tonshoff B et al. Treatment strategies in pediatric solid organ transplant recipients with calcineurin inhibitor-induced nephrotoxicity. Pediatr Transplantation 2006; 10: 721–729.</p> <p>Groetzner J et al. Cardiac transplantation in pediatric patients: fifteen-year experience of a single center. Ann Thorac Surg 2005; 79 (1): 53-60.</p> <p>Since the introduction of mycophenolate mofetil, freedom from acute rejection increased to 62%. Gajarski RJ et al. Lack of correlation between MMF dose and MPA level in pediatric and young adult cardiac transplant</p>

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	<p>patients: does the MPA level matter? Am J Transplant 2004; 4 (9): 1495-500</p> <p>Shaddy RE et al. Mycophenolic mofetil reduces the HLA antibody response of children to valved allograft implantation. Ann-Thorac-Surg 2004; 77 (5): 1734-9</p> <p>This study demonstrates the ability to pharmacologically abrogate the HLA class I antibody response to valved allograft implantation in children using MMF. Boucek RJ, Boucek MM Pediatric heart transplantation. Curr-Opin-Pediatr 2002; 14 (5): 611-9</p> <p>Currently, recipients are maintained on immunosuppressive medications that target calcineurin (eg, cyclosporine, tacrolimus), lymphocyte proliferation (eg, azathioprine, mycophenolate mofetil (MMF), sirolimus) and, in some instances antiinflammatory corticosteroids. Kobashigawa Review of Major Clinical Trials with Mycophenolate Mofetil in Cardiac Transplantation. Transplantation 2005; 80 (2S): S235–S243.</p> <p><u>Trapianto di fegato pediatrico</u></p> <p>Renz JF et al. Mycophenolate mofetil, microemulsion cyclosporine, and prednisone as primary immunosuppression for pediatric liver transplant recipients. Liver Transpl Surg. 1999;2(2): 136-43</p> <p>Chardot C et al. Use of mycophenolate mofetil as rescue therapy after pediatric liver transplantation. Transplantation 2001; 71 (2): 224-9.</p> <p>These preliminary results suggest that MMF is an effective and safe immunosuppressant in pediatric LT recipients. Its use is hampered by frequent gastrointestinal and hematological side-effects. MMF does not seem to increase the risk of PTLN nor CMV disease. Aw MM et al. Calcineurin-inhibitor related nephrotoxicity- reversibility in paediatric liver transplant recipients. Transplantation 2001; 72 (4): 746-9.</p> <p>MMF allows the recovery of renal function from CI related nephrotoxicity in more than 70% of paediatric liver transplant recipients with renal impairment. Ferraris JR et al. Mycophenolate mofetil and reduced doses of cyclosporine in pediatric liver transplantation with chronic renal dysfunction: changes in the immune responses. Pediatr Transplant 2004; 8 (5): 454.</p> <p>Evans HM et al. Mycophenolate Mofetil for Renal Dysfunction after Pediatric Liver Transplantation. Transplantation 2005; 79: 1575–1580) Klupp J et al. Indications of Mycophenolate Mofetil in Liver Transplantation. Transplantation 2005; 80: S142–S146.</p> <p>Marion M. Mycophenolic Acid Pharmacokinetics in Pediatric Liver Transplant Recipients. Liver Transplantation 2003; 9 (4):</p>

Principio attivo	Estensione di indicazione relative ad usi consolidati sulla base di evidenze scientifiche presenti in letteratura
	<p>383-388.</p> <p>Apezzato ML et al. Mycophenolate mofetil promotes prolonged improvement of renal dysfunction after pediatric liver transplantation: Experience of a single center. <i>Pediatr Transplantation</i> 2007; 11: 82–86.</p> <p>Tredger JM. Monitoring Mycophenolate in Liver Transplant Recipients: Toward a Therapeutic Range. <i>Liver Transplantation</i> 2004; 10 (4): 492–502.</p> <p>Mention K et al. Renal function outcome in pediatric liver transplant recipients. <i>Pediatr-Transplant</i> 2005; 9 (2): 201-7</p> <p>Nobili V et al. Mycophenolate mofetil in pediatric liver transplant patients with renal dysfunction: preliminary data. <i>Pediatr-Transplant</i> 2003; 7 (6): 454-7 .</p> <p><u>Trapianto di Pancreas</u></p> <p>Odorico JS et al. Improved solitary pancreas transplant graft survival in the modern immunosuppressive era. <i>Cell-Transplant</i> 2000; 9 (6): 919-27.</p> <p>Rigotti P et al. Mycophenolate mofetil (MMF) versus azathioprine (AZA) in pancreas transplantation: a single-center experience. <i>Clin-Nephrol</i> 2000; 53 (4): 52-4.</p> <p>In conclusion, patients treated with MMF required less frequent and less intensive treatment for acute rejection. However, its short- and long-term side effects should be further investigated.</p> <p>Gruessner RW et al. Mycophenolate mofetil in pancreas transplantation. <i>Transplantation</i> 1998; 66 (3): 318-23.</p> <p>For SPK recipients, the incidence of acute reversible rejection episodes was significantly lower with MMF than with azathioprine. Paleologo G et al. Solitary pancreas transplantation: preliminary findings about early reduction of proteinuria in incipient or evident diabetic type I nephropathy. <i>Transplant Proc</i> 2004; 36 (3): 591-6</p> <p>The immunosuppressive therapy used basilixmab induction and tacrolimus, mycophenolate mofetil (MMF), and low dose steroid maintenance therapy. Kaufman DB et al. Pancreas transplantation at Northwestern University. <i>Clin Transpl</i> 2000; 239-46</p> <p>We have found that multimodal immunotherapy including induction with tacrolimus-based maintenance combined with either MMF or sirolimus, with or without corticosteroids, resulted in excellent patient and graft survival rates with low rates of rejection. Sutherland DE et al. Lessons learned from more than 1,000 pancreas transplants at a single institution. <i>Ann Surg</i> 2001; 233 (4): 463-501</p>

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	<p>From December 16, 1966, to March 31, 2000, the authors performed 1,194 pancreas transplants. The analyses were divided into five eras: era 0, 1966 to 1973 (n = 14), historical; era 1, 1978 to 1986 (n = 148), transition to cyclosporine for immunosuppression, multiple duct management techniques, and only solitary (PAK and PTA) transplants; era 2, 1986 to 1994 (n = 461), all categories (SPK, PAK, and PTA), predominantly bladder drainage for graft duct management, and primarily triple therapy (cyclosporine, azathioprine, and prednisone) for maintenance immunosuppression; era 3, 1994 to 1998 (n = 286), tacrolimus and mycophenolate mofetil used; and era 4, 1998 to 2000 (n = 275), use of daclizumab for induction immunosuppression, primarily enteric drainage for SPK transplants, pretransplant immunosuppression in candidates awaiting PTA Patient and graft survival rates have significantly improved over time as surgical techniques and immunosuppressive protocols have evolved. Jordan ML et al. Steroid withdrawal for pancreas transplants under tacrolimus immunosuppression. <i>Transplant-Proc</i> 2001; 33 (1-2): 1655.</p> <p>Egidi FM. Management of Hyperglycaemia After Pancreas Transplantation. Are New Immunosuppressants the Answer? <i>Drugs</i> 2005; 65 (2): 153-166.</p> <p>Garcia VD et al. Immunosuppression in Pancreas Transplantation: Mycophenolate Mofetil Versus Sirolimus. <i>Transplantation Proceedings</i> 2004; 36: 975–977.</p> <p>Gruessner AC, Sutherland DER. Pancreas transplant outcomes for United States (US) and non-US cases as reported to the United Network for Organ Sharing (UNOS) and the International Pancreas Transplant Registry (IPTR) as of June 2004. <i>Clin Transplant</i> 2005: 19: 433–455.</p> <p>Jung M et al. Comparison of Azathioprine and Mycophenolate Mofetil for the Prevention of Acute Rejection in Recipients of Pancreas Transplantation. <i>J Clin Pharmacol</i> 2001;41: 861-869.</p> <p>In conclusion, compared with AZA, MMF significantly reduces the rate of biopsy-proven pancreas rejection during the first 6 months of transplantation and is well tolerated, Mark W et al. Impact of Steroid Withdrawal on Metabolic Parameters in a Series of 112 Enteric/Systemic-Drained Pancreatic Transplants. <i>Transplantation Proceedings</i> 2005, 37, 1821–1825.</p> <p><u>Trapianto di Polmone</u> Izbicki G et al. Improved Survival After Lung Transplantation in Patients Treated With Tacrolimus/Mycophenolate Mofetil as Compared With Cyclosporine/Azathioprine. <i>Transplantation Proceedings</i> 2002; 34: 3258–3259</p> <p>Lama R et al. Lung Transplants With Tacrolimus and Mycophenolate Mofetil: A Review. <i>Transplantation Proceedings</i> 2003;</p>

Principio attivo	Estensione di indicazione relative ad usi consolidati sulla base di evidenze scientifiche presenti in letteratura
	<p>35: 1968–1973.</p> <p>Palmer SM et al. Results of a randomized, prospectiv, multicenter trial of Mycophenolate Mofetil versus azathioprine in the prevention of acute lung allograft rejection. <i>Transplantation</i> 2001; 71: 1772–1776.</p> <p>McNeil K et al. Comparison of Mycophenolate Mofetil and Azathioprine for Prevention of Bronchiolitis Obliterans Syndrome in De Novo Lung Transplant Recipients. <i>Transplantation</i> 2006; 81 (7): 998–1003.</p> <p>Roman A et al. Preliminary Results of Rescue Therapy With Tacrolimus and Mycophenolate Mofetil in Lung Transplanted Patients With Bronchiolitis Obliterans. <i>Transplantation Proceedings</i> 2002; 34: 146–147</p> <p>Treede H et al. Tacrolimus versus Cyclosporine after Lung Transplantation: A Prospective, Open, Randomized Two-Center Trial Comparing Two Different Immunosuppressive Protocols. <i>J Heart Lung Transplant</i> 2001; 20: 511–517.</p> <p>Zuckermann A et al. Comparison Between Mycophenolate Mofetil and Azathioprine-Based Immunosuppressions in Clinical Lung Transplantation. <i>J Heart Lung Transplant</i> 1999;18: 432–440.</p> <p>Zuckermann A et al. Benefit of Mycophenolate Mofetil in Patients With Cyclosporine A-Induced Nephropathy After Lung Transplantation. <i>Transplantation Proceedings</i> 1999; 31: 1160–1161</p> <p>Bhorade SM et al. Comparison of three tacrolimus-based immunosuppressive regimens in lung transplantation. <i>Am J Transplant.</i> 2003; 3 (12): 1570-5</p> <p>Addition of daclizumab and MMF to a tacrolimus-based immunosuppressive regimen decreased the incidence of acute rejection episodes without increasing any adverse events in our lung transplantation population. Groetzner J et al. Conversion to sirolimus and mycophenolate can attenuate the progression of bronchiolitis obliterans syndrome and improves renal function after lung transplantation. <i>Transplantation.</i> 2006; 81 (3): 355-60.</p> <p>After BOS was diagnosed, conversion to MMF and Sir stabilized graft function only in some of the converted patients. Therefore, earlier administration of Sir-based immunosuppression might be a more promising approach. Whether conversion to CNI-free immunosuppression can actually ameliorate the extent or progression of BOS has to be investigated in randomized trials.</p> <p><u>Trapianto di isole di Langerhans</u></p>

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	<p>Shapiro AMJ, Ricordi C, Hering BJ et al: International trial of the Edmonton Protocol for islet transplantation. N Engl J Med 2006; 355: 1318-30.</p> <p>Froud T, Baidal DA, Ponte G, Ferreira DV, Ricordi C, Alejandro R: Resolution of neurotoxicity and beta-cell toxicity in an islet transplant recipient following substitution of tacrolimus with MMF. Cell transplant 2006, 15 (7): 613-629</p> <p>Terapia immunodepressiva e antirigetto in pazienti adulti e pediatrici sottoposti a tx di intestino e multi-viscerale.</p> <p>Mycophenolate Mofetil–Related Gastrointestinal Mucosal Injury in Multivisceral Transplantation V. Delacruz, D. Weppler, E. Island, M. Gonzalez, P. Tryphonopoulos, J. Moon, L. Smith, A. Tzakis, and P. Ruiz, Transplantation Proceedings, 42, 82–84 (2010)</p> <p>Intestinal transplantation: evolution in immunosuppression protocols, Jacques Pirenne and Masaru Kawai, Current Opinion in Organ Transplantation 2009, 14:250–255</p> <p>Living-Related Small Bowel Transplantation for Three Patients With Short Gut Syndrome, M. Li, G. Ji, F. Feng, W. Song, R. Ling, D. Chen, X. Liu, J. Li, H. Shi, W. Wang, and H. Zhang, Transplantation Proceedings, 40, 3629–3633 (2008)</p> <p>Non-composite combined liver and intestinal allotransplantation, Ning Li, You-Sheng Li, Yuan-Xin Li, Wei-Ming Zhu, Xiao-Dong Ni, Liang Zhu, Bin Cao, Wei-Su Li, Kai Luo and Jie-Shou Li, Hepatobiliary Pancreat Dis Int 2006; 5: 613-616</p> <p>Living Related Segmental Bowel Transplantation From Experimental to Standardized Procedure Enrico Benedetti, MD,* Mark Holterman, MD,† Massimo Asolati, MD,* Stefano Di Domenico, MD,* Jose’ Oberholzer, MD,* Howard Sankary, MD,* Herand Abcarian, MD,‡ and Giuliano Testa, MD*, Ann Surg 2006;244: 694–699</p> <p>Isolated small bowel transplantation from a living-related donor at the Catholic University of Korea--a case report of rejection -free course-, Lee MD, Kim DG, Ahn ST, Moon IS, Choi MG, Hong SG, Park SC, Chung IS, Choi JY, Yoon SK, Kim SI, Choi JH, Jung ES, Yonsei Med J. 2004 Dec 31;45(6):1198-202.</p> <p>[A case report of simultaneous liver, pancreas-duodenum, and kidney transplantation in a patient with post-hepatic cirrhosis combined with uremia and insulin-dependent diabetes related to chronic pancreatitis], Wang H, Dou KF, Yang XJ, Qin WJ, Zhang G, Yu L, Kang FX, Chen SY, Xiong LZ, Song ZS, Liu ZC, Zhonghua Yi Xue Za Zhi. 2006 Sep 12;86(34):2421-4. [Article in Chinese].</p>

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	<p>Profilassi e terapia della GVHD acuta e cronica nel trapianto di cellule staminali emopoietiche (Midollo, Sangue periferico, Cordone Ombelicale) nei pazienti pediatrici refrattari alla terapia di I linea con corticosteroidi</p> <p>Haploidentical hematopoietic stem cell transplantation for the treatment of severe aplastic anemia in children. Liu Y, Tang SQ, Huang WR, Li HH, Zhao Y, Bo J, Zhang N, Wang F, Yu L. Department of Pediatrics, Chinese PLA General Hospital, Beijing 100853, China. Zhongguo Shi Yan Xue Ye Xue Za Zhi. 2013 Jul;21(4):985-9.</p> <p>Impact of Graft-versus-Host Disease Prophylaxis on Outcomes after Myeloablative Single-Unit Umbilical Cord Blood Transplantation. Sanz J, Picardi A, Hernández Boluda JC, Martín C, Ferrá C, Nozzoli C, Gonzalez-Vicent M, Rambaldi A, Valcarcel D, Verdeguer A, Serrano D, de Heredia CD, Pascual MJ, de Paz R, Montesinos P, Bartolozzi B, Algarotti A, Sanz MA, Arcese W, Sanz GF; GETH and GITMO. Biol Blood Marrow Transplant. 2013 Sep;19(9):1387-92.</p> <p>Allogeneic stem cell transplantation for 8 patients with malignant infantile osteopetrosis in China. Zhu GH, Qin MQ, Wang B, Zhou X, Yang J, Jia CG, Wu Y, Wang XS, Wu MY. Zhonghua Er Ke Za Zhi. 2012 Nov;50(11):807-12.</p> <p>An age-dependent pharmacokinetic study of intravenous and oral mycophenolate mofetil in combination with tacrolimus for GVHD prophylaxis in pediatric allogeneic stem cell transplantation recipients. Bhatia M, Militano O, Jin Z, Figurski M, Shaw L, Moore V, Morris E, Tallamy B, van de Ven C, Ayello J, et al. Biol Blood Marrow Transplant. 2010 Mar; 16(3):333-43.</p>
Micofenolato Sodico	<p>Profilassi del rigetto acuto in pazienti adulti con trapianto di cuore.</p> <p>Pazienti adulti con trapianto di fegato e di cuore in cui il micofenolato mofetile dia effetti collaterali di tipo gastroenterico che richiedano la diminuzione/sospensione della dose.</p> <p>J. Kobashigawa et al. Similar Efficacy and Safety of Enteric-coated Mycophenolate Sodium (E-MPS, Myfortic) compared with Mycophenolate Mofetil (NNF) in de Novo Transplant Recipients: Results of a 12-Month, Single-blind, Randomized, Parallel-Group, Multicenter Study. The Journal of Heart and Lung Transplantation. Vol. 25, Number 8, 2006.</p> <p>M. Zackliczynski et al. Letter: Elective conversion from CellCept to Myfortic under Control of Mycophenolate Acid Concentration in Stable Heart Transplant Recipients. The Journal of Heart and Lung Transplantation, Vol. 26, No. 3, 2007.</p> <p>Pharmacokinetics and variability of mycophenolic acid from enteric-coated mycophenolate sodium compared with mycophenolate mofetil in de novo heart transplant recipients. Clin Transplant 2007; 21: 18-23</p> <p>J. Dumortier et al. Conversion from Mycophenolate Mofetil to Enteric-coated Mycophenolate Sodium in Liver Transplant</p>

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Principio attivo	Estensione di indicazione relative ad usi consolidati sulla base di evidenze scientifiche presenti in letteratura
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<p>Rapamicina (sirolimus)</p>	<p>Trapianto fegato; trapianto pediatrico di fegato e/o rene Profilassi e terapia trapianto di cellule staminali emopoietiche Trapianto pancreas, cuore, polmone Trapianto isole di Langerhans</p> <p><u>Trapianto di fegato</u> Wiesner R, Klintmalm GB, McDiarmid S, and the Rapamune Liver Transplant Study Group. SIROLIMUS IMMUNOTHERAPY RESULTS IN REDUCED RATES OF ACUTE REJECTION IN DE NOVO ORTHOTOPIC LIVER TRANSPLANT RECIPIENTS. In: American Journal of Transplantation; 2002; Washington; 2002.</p> <p>Maheshwari A, Torbenson MS, Thuluvath PJ. Sirolimus Monotherapy Versus Sirolimus in Combination with Steroidsand/or MMF for Immunosuppression After Liver transplantation. Dig Dis Sci 2006.</p>

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Tacrolimus	<p>Profilassi AR in trapianto di cuore-polmone, trapianto polmone, trapianto pancreas, trapianto rene - pancreas, trapianto intestino, trapianto isole di Langerhans.</p> <p>Profilassi AR e trattamento e profilassi GVHD acuta e cronica in trapianto di cellule staminali emopoietiche nell'adulto e nel bambino</p> <p><u>Profilassi Tx polmone:</u> - Treede et Al, 3rd ICI San Diego, US, 2004; abstract 22</p> <p>- Keenan et Al, Ann Thoracic Surg 1995,60:580</p> <p>- Treede et Al, J Heart Lung Transplant 2001; 20:511</p> <p><u>Profilassi Tx Rene pancreas e pancreas:</u> - Bechstein et Al, Transplantation 2004;7:1221</p> <p>- J Malaise et Al and EUROSPK Study Group, Transplantation Proceedings 2005 37,2843-2845 - F Saudek and the SPK Study Group, Nephrology Dialysis Transplantation 2005</p> <p><u>Profilassi Tx Intestino-Multiviscerale:</u> Abu Elmagd et Al, Ann Surg 2001;234:404</p> <p><u>Trapianto di Midollo:</u> - Koehler MT et Al Bone Marrow Transplantation 1995 15:895</p> <p>- Kananaru A et Al for the Japanese FK 506 Study Group; Bone Marrow Transplantation 1995 15:885 - Nash R.A et Al Blood 1995 85: 3746</p> <p>- Nash R.A et Al Blood 1996 88:3634</p> <p>- Nash R.A et Al Blood 2000 96:2062-2068</p> <p><u>Trapianto di isole di Langerhans</u> Shapiro AMJ, Lakey JRT, Ryan EA, Korbitt GS, Toth EL, Warnock GL, Kneteman NM, Rajotte RV: Islet transplantation in seven patients with type 1 diabetes mellitus using a glucocorticoid-free immunosuppressive regimen. <i>N Engl J Med</i> ; 343:230-238</p>

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<p>Treosulfano</p>	<p>Nei regimi di condizionamento del trapianto di cellule staminali emopoietiche (CSE) del bambino e dell'adulto affetti da patologia oncologica e non oncologica ad alto rischio di tossicità.</p> <p>Bitan M, Shapira MY, et al., Exp Hematol. 2005 Jun;</p> <p>Casper J, Freund M. Int J Clin Pharmacol Ther. 2004;42(11):661-2.</p> <p>Hilger RA, Baumgart J, et al.,Int J Clin Pharmacol Ther. 2004;42(11):654-5.</p> <p>Beelen DW, Trenschel R, et al.,Bone Marrow Transplant. 2005 Feb;</p> <p>Shimoni A, Kröger N, et al.,Leukemia. 2005 Jan;</p> <p>Casper J, Knauf W, Blau I, et al.,Ann Hematol. 2004;</p> <p>Casper J, Knauf W, Kiefer T, et al.,Blood. 2004 Jan 15;</p> <p>Bacher U, Klyuchnikov E, et al.,.Expert Opin Drug Saf. 2009 May;</p> <p>Cutting R, Mirelman A, Vora A.Br J Haematol. 2008 Dec;</p> <p>Główka FK, Karaźniewicz-Łada M, et al.,Bone Marrow Transplant. 2008 Oct;</p> <p>Bernardo ME, Zecca M, et al.,Br J Haematol. 2008 Nov;</p> <p>Baronciani D, Rambaldi A, et al., Am J Hematol. 2008 Sep;</p>

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Valganciclovir	<p>Trapianto di cellule staminali emopoietiche; trapianto d'organo solido in pazienti adulti e pediatrici.</p> <p><u>BMT</u> Winston DJ et al. Pharmacokinetics of ganciclovir after oral valganciclovir versus intravenous ganciclovir in allogeneic stem cell transplant patients with graft-versus-host disease of the gastrointestinal tract. Biol Blood Marrow Transplant 2006; 12 (6): 635-40</p> <p>The pharmacokinetics of ganciclovir after oral valganciclovir versus intravenous ganciclovir were compared in allogeneic stem cell transplant recipients with stable graft-versus-host disease of the gastrointestinal tract. Oral valganciclovir could be a useful alternative to intravenous ganciclovir in certain stable stem cell transplant patients who require prophylaxis or preemptive therapy for cytomegalovirus infection. Ayala E et al. Valganciclovir is safe and effective as pre-emptive therapy for CMV infection in allogeneic hematopoietic stem cell transplantation. Bone Marrow Transplant 2006; 37 (9): 851-6</p> <p>Pre-emptive therapy of CMV infection with oral VGC is safe and effective in allogeneic HSCT recipients. Van der Heiden PLJ et al. Oral valganciclovir as pre-emptive therapy has similar efficacy on cytomegalovirus DNA load reduction as intravenous ganciclovir in allogeneic stem cell transplantation recipients. Bone Marrow Transplant 2006; 37 (7): 693-8</p>

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	<p>The efficacy and safety of oral valganciclovir was compared to ganciclovir i.v. in pre-emptive treatment of cytomegalovirus (CMV) in T-cell-depleted allogeneic stem cell transplant (allo-SCT) recipients. In conclusion, pre-emptive treatment with valganciclovir and ganciclovir, led to similar reduction of CMV DNA load. Oral valganciclovir is an attractive and safe alternative for pre-emptive CMV treatment in T-cell-depleted allo-SCT recipients. Einsele H et al. Oral valganciclovir leads to higher exposure to ganciclovir than intravenous ganciclovir in patients following allogeneic stem cell transplantation. Blood 2006; 107 (7): 3002-8</p> <p>This supports the use of V-GCV in SCT, even in patients with I-GVHD grades I-II. Due to higher exposure after V-GCV compared with IV-GCV, patients should be monitored carefully for safety reasons. Boeckh M et al. Cytomegalovirus in hematopoietic stem cell transplant recipients: Current status, known challenges, and future strategies. Biol Blood Marrow Transplant 2003; 9 (9): 543-58</p> <p>Strategies currently being investigated include long-term suppression of CMV with valganciclovir for the prevention of late CMV infection and disease, adoptive transfer of CMV-specific T cells, and donor and recipient vaccination strategies.</p> <p><u>Infezione da Cytomegalovirus in pazienti pediatrici con trapianto</u></p> <p>Clark BS et al. Valganciclovir for the prophylaxis of cytomegalovirus disease in pediatric liver transplant recipients. Transplantation. 2004; 77 (9): 1480</p> <p>Burri M et al. Oral valganciclovir in children: single dose pharmacokinetics in a six-year-old girl. Ped Infectious Dis J 2004; 23 (3): 263-266</p> <p>Razonable RR, Paya CV. Valganciclovir for the prevention and treatment of cytomegalovirus disease in immunocompromised hosts. Expert Rev. Anti-infect. Ther. 2004; 2 (1): 27-42)</p> <p>Vaudry W et al. Safety of oral valganciclovir powder for oral solution in pediatric solid organ transplant recipients. Am J Transplant / Transplantation 2006 WTC 215 Abs 441.</p> <p>Bouw R et al. Ganciclovir pharmacokinetics in pediatric solid organ transplant recipients after administration of valganciclovir oral solution. Am J Transplant / Transplantation 2006 WTC 215 Abs 442.</p> <p>E' ammesso l'utilizzo del valganciclovir come terapia preventiva della malattia da CMV nei pazienti sottoposti a trapianto di rene.</p>

Principio attivo	Estensione di indicazione relative ad usi consolidati sulla base di evidenze scientifiche presenti in letteratura
	<p>Kalpoe JS et al. Similar reduction of cytomegalovirus DNA load by oral valganciclovir and intravenous ganciclovir on pre-emptive therapy after renal and renal-pancreas transplantation. Antivir Ther (Lond). 2005.</p> <p>Khoury JA et al. Prophylactic Versus Preemptive Oral Valganciclovir for the Management of Cytomegalovirus Infection in Adult Renal Transplant Recipients. Am J Transplant. 2006</p> <p>Lopau K et al. Efficacy and safety of preemptive anti-CMV therapy with valganciclovir after kidney transplantation. Clin Transplant. 2007.</p> <p>Said T et al. Oral Valgancyclovir Versus Intravenous for Cytomegalovirus Prophylaxis in Kidney Transplant Recipient. Transplantation Proceedings. 2007</p> <p>Reischig T et al. Intragraft cytomegalovirus infection: a randomized trial of valacyclovir prophylaxis versus pre-emptive therapy in renal transplant recipients. Antivir Ther (Lond). 2010</p> <p>E' ammesso l'utilizzo del valganciclovir come terapia preventiva della malattia da CMV nei pazienti sottoposti a trapianto di organo solido.</p> <p>Diaz-Pedroche C et al. Efficacy and Safety of Valgancyclovir as Preemptive Therapy for the Prevention of Cytomegalovirus Disease in Solid Organ Transplant Recipients. Transplantation Proceedings 2005</p> <p>Strippoli GF et al. Pre-emptive treatment for cytomegalovirus viraemia to prevent cytomegalovirus disease in solid organ transplant recipients. Cochrane Database Syst Rev. 2006</p> <p>Asberg A et al. Oral valganciclovir is an effective and safe treatment option for CMV disease in solid organ transplant recipients Am J Transplant. 2007</p> <p>Sun H-Y et al. Prevention of Posttransplant Cytomegalovirus Disease and Related Outcomes with Valganciclovir: A Systematic Review. Am J Transplant. 2008.</p> <p>Trapianto di cellule staminali emopoietiche allogene in pazienti pediatrici</p> <p>Prophylaxis against cytomegalovirus infection in pediatric and adult patients undergoing solid organ and hematopoietic stem cells transplantation. Ferrés M, Nervi B, Ramírez P. Rev Chilena Infectol. 2012 Sep;29 Suppl 1:S23-8</p>