

## F-18/Tc-99m glucarate publications

- Yaoito H, Uehara T, Brownell AL, Rabito CA, Ahmad M, Khaw BA, Fischman AJ, Strauss HW. 1991. *Localization of <sup>99m</sup>Tc-Glucarate in zones of acute cerebral injury.* **J Nucl Med** 32:272-278.
- Orlandi C, Crane PD, Edwards DS, Platts SH, Bernard L, Lazewatsky J, Thoolen MJ. 1991. *Early scintigraphic detection of experimental myocardial infarction in dogs with technetium-99m-glucaric acid.* **J Nucl Med** 32:263-268.
- Willerson JT. 1991. *Detection of acute myocardial infarcts by infarct-avid imaging.* **J Nucl Med** 32:269-271.
- Ballinger JR, Proulx A, Ruddy TD. 1991. *Stable Kit Formulation of technetium-99m Glucarate.* **Appl. Radial Isot** 42:405-406.
- Ohtani H, Callahan RJ, Khaw BA, Fischman AJ, Wilkinson RA, Strauss HW. 1992. *Comparison of technetium-99m-glucarate and thallium-201 for the identification of acute myocardial infarction in rats.* **J Nucl Med** 33:1988-1993.
- Pak KY, Nedelman MA, Tam SH, Wilson E, Daddona PE. 1992. *Labeling and stability antibody fragments by a direct <sup>99m</sup>Tc-labeling method.* **Nucl Med Bio** 19:669-677.
- Pak KY, Nedelman MA, Kanke M, Khaw BA, Mattis JA, Strauss HI. 1992. *An Instant kit method for labeling antimyosin Fab' with technetium-99m: Evaluation in an experimental Myocardial Model.* **J Nucl Med** 33:144-149.
- Yaoita H, Fischman AJ, Wilkinson R, Khaw BA, Juweid M, Strauss HW. 1993. *Distribution of deoxyglucose and technetium-99m-glucarate in the acutely ischemic myocardium.* **J Nucl Med** 34:1303-1308.
- Ballinger JR, Cowan DSM, Boxen I, Zhang ZM, Rauth M. 1993. *Effect of hypoxia on the accumulation of technetium-99m-glucarate and technetium-99m-gluconate by Chinese Hamster ovary cells in vitro.* **J Nucl Med** 34:242-245.
- Khaw BA, Narula J. 1995. *What is new in infarct imaging?* **American Society of Nucl Cardiol Newsletter** 2:14.
- Khaw BA. 1996. *Early detection of myocardial injury and infarction.* **J Nucl Med 43<sup>rd</sup> Annual Meeting Handout Book** 1-4.
- Pak KY, Narula J, Petrov A, Imran V, Mariani G, Villa G, Strauss HW, Khaw BA. 1997. *AMISCANT™ (<sup>99m</sup>Tc-99m glucarate)-A novel delineator of acute myocardial infarction: From laboratory to clinic.* **Shenzhen Medical J** 10(2):22-24.

- Molea N, Lazzeri E, Bodeli L, DiLuca L, Bacciardi D, Khaw BA, et al. 1997. *Biodistribution pharmacokinetics and dosimetry  $^{99m}\text{Tc}$ -glucaric acid in humans*. In: **Bergman H, Droiss A, Sinizinger H, eds. Radioactive Isotopes in Clinical Medicine and Res.** XXII. Basel, Switzerland: Birkhauser Verlag 359-364.
- Narula J, Petrov A, Pak KY, Lister BC, Khaw BA. 1997. *Very early noninvasive detection of acute experimental non-reperfused myocardial infarction with technetium-99m-labeled glucarate*. **Circulation** 95:1577-1584.
- Petrov A, Narula J, Nakazawa A, Pak KY, Khaw BA. 1997. *Targeting human breast tumor in xeno-grafted SCID mice with technetium-99m-glucarate*. **Nucl Med Commun** 18:241-251.
- Beanlands RSB, Ruddy TD, Bielawski L, Johansen H, Pasler A, Masika M. 1997. *Differentiation of myocardial ischemia and necrosis by technetium-99m-glucaric acid kinetics*. **J Nucl Cardiol** 4:274-282.
- Gerson MC, McGordon AJ. 1997. *Technetium-99m-glucarate: What will be its clinical role?* **Editorial J Nucl Cardiol** 4:336-340.
- Khaw BA, Nakazawa A, O'Donnell SM, Pak KY, Narula J. 1997. *Avidity of technetium-99m glucarate for the necrotic myocardium: In vivo and in vitro assessment*. **J Nucl Cardiol** 4:283-290.
- Khaw BA, Narula J. 1998. *New approaches to infarct-avid imaging*. *New Developments in Cardiac Nuclear Imaging*. (From: **Iskandrian AE and Verani MS, (eds)** Armonk, NY: Futura Publishing Company, Inc) 171-202.
- Khaw BA. 1998. *New methods in nuclear cardiac imaging infarct avid agents*. **American Society of Nucl Cardiol Annual Meeting Handout Book** 1-8.
- Botvinick E. 1998. *Hot spot imaging*. **J Nucl Cardiol** March/April.
- Khaw BA. 1999. *New infarct avid imaging agents*. **Society Nucl Med 46<sup>th</sup> Annual Meeting Handout Book**.
- Taillefer R, Tamaki N. 1999. *New radiotracers in cardiac imaging: Principles and applications*. Stamford, CN: Appleton & Lange 197-209.
- Mariani G, Villa G, Rossettin P, Spallarossa B, P Gian, Paolo G, Brunelli, Pak KY, Khaw BA, Strauss HW. 1999. *Detection of acute myocardial infarction by  $^{99m}\text{Tc}$ -labeled D-Glucaric acid imaging in patients with acute chest pain*. **J Nucl Med** 40:1832-1839.
- Johnson L, Schofield L, Mastrofrancesco, BS Donahay, T Farb, Khaw BA. 2000. *Technetium-99m glucarate uptake in a swine model of limited flow plus increased demand*. **J Nucl Cardiol** 7:590-598.

- Wiersema AM, Oyen WJG, Dirksen R, Verhofstad AAJ, Corstenst FHM, van der Vilet JA. 2000. *Early assessment of skeletal muscle damage after ischaemia-reperfusion injury using Tc-99m-glucarate*. **Cardiovascular Surgery** 8:186-191.
- Pach J., Hubalewska-Hola A., Szybinski Z., Pach D. 2001. *New possibilities in scintigraphy detection of carbon monoxide cardiotoxicity*. **Przegl Lek.** 58, 4:182-4.
- Arteaga de Murphy C, Ferro-Flores G, Villanueva-Sanchez O, Murphy-Stack E, Pedraza-Lopez M, Melendez-Alafort L, Molina-Trinidad E. 2002. *<sup>99m</sup>Tc-glucarate for detection of isoproterenol-induced myocardial infarction in rats*. **International J of Pharmaceutics** 233:29-34.
- Khaw BA, Silva Jose Da, Petrov, Artiom, Hartner, William. 2002. *Indium-111 antimyosin and Tc-99m glucaric acid for noninvasive identification of oncotic and apoptotic myocardial necrosis*. **J Nucl Cardiol** 9:471-481.
- Okada DR, Johnson G, Liu Z, Hocherman SD, Khaw BA, Pak KY, Okada RD. 2002. *Myocardial kinetics of <sup>99m</sup>Tc-Glucarate in low-flow, hypoxia and aglycemia*. **J Nucl Cardiol** 10:168-176.
- Ballinger JR, Hsue V, Rauth, AM. 2003. *Accumulation of technetium-99m glucarate: in vitro cell cultures and in vivo tumour models*. **Nucl Med Commun** 24:597-606.
- Flotats A, Carrio I. *Non-Invasive in vivo imaging of myocardial apoptosis necrosis*. 2003. **Eur J Nucl Med Mol Imaging**. 30, 4:615-30.
- Liu Z, Barrett HH, Stevenson G, Kastis G, Bettan M, Furenlid LR, Wilson DW, Pak KY. 2004. *High-Resolution Imaging with <sup>99m</sup>Tc-Glucarate for Assessing Myocardial Injury in Rat Heart Models Exposed to Different Durations of Ischemia with Reperfusion*. **J Nucl Med** 45:1251-1259.
- Okada DR, Johnson G, Liu Z, Hocherman SD, Khaw BA, Okada RD. 2004. *Early Detection of Infarct in Reperfused Canine Myocardium Using <sup>99m</sup>Tc-Glucarate*. **J Nucl Med** 45:655-664.
- Liu Z, Stevenson GD, Barrett HH, Kastis G, Bettan M, Furenlid LR, Wilson DW, Woolfenden JM, Pak KY. 2004. *<sup>99m</sup>Tc-glucarate high-resolution imaging of drug sensitive and drug resistant human breast cancer xenografts in SCID mice*. **Nucl Med Commu** 25:711-720.
- Perek N, Le Jeune N, Denoyer D, Dubois F. 2005. *MRP-1 Protein Expression and Glutathione Content of In Vitro Tumor Cell Lines Derived from Human Glioma Carcinoma U-87-MG Do Not Interact with <sup>99m</sup>Tc-Glucarate Uptake*. **Cancer Biother Radiopharm** 20: 391-400.
- Johnson G 3rd, Okada CC, Hocherman SD, Liu Z, Hart C, Khaw BA, Okada RD. 2006. *<sup>99m</sup>Tc -glucarate imaging for the early detection of infarct in partially reperfused canine myocardium*. **Eur J Nucl Med Mol Imaging**. 33,3:319-28

- Gambini JP, Cabral P, Santander G, Canepa J, Andruskevicius P, Piuma L, Savio E, Delgado L, Quagliata A, Alonso O. 2006. *Case Report:  $^{99m}\text{Tc}$ -Glucarate as a Potential Novel Tracer of Lung Cancer Lesions.* **Alasbimn Journal** 9: 1-6.
- Gambini JP, Quinn TP, Nuñez M, et al. 2008. *Is  $^{99m}\text{Tc}$  glucarate a tracer of tumor necrosis? Comparison with  $^{18}\text{F}$ -FDG-PET in an animal model of breast cancer and preliminary clinical experience in oncology patients.* **Alasbimn J April** 10(40).
- Liu Z, Barrett HH, Stevenson GD, Furenlid LR, Pak KY, Woolfenden JM. 2008. *Evaluating the protective role of ischaemic preconditioning in rat hearts using a stationary small-animal SPECT imager and  $^{99m}\text{Tc}$ -glucarate.* **Nuc Med Comm** 29:120-128.
- Perek N, Sabido O, Le Jeune N, Prevot N, Vergnon JM, Clotagatide A, Dubois F. 2008. *Could  $^{99m}\text{Tc}$ -glucarate be used to evaluate tumour necrosis? In vitro and in vivo studies in leukaemic tumour cell line U937.* **Eur J Nucl Med Mol Imaging.** 35, 7:1290-8.
- De-Saint-Hubert M, Prinsen K, Mortelmans L., Verbruggen A., Mottaghay FM. 2009. *Molecular Imaging of cell death.* **Methods.** 48, 2: 178-87.
- Gambini J, Nunez M, Cabral P, Laffarranderie M, Noble J, Corchs E, D'Albora R, Savio E, Delgado L, Alonso O. 2009. *Evaluation of Patients with Head and Neck Cancer by Means of  $^{99m}\text{Tc}$ -Glucarate.* **J Nucl Med Technol** 37:229-232.
- Okada DR, Liu Z, Johnson G 3<sup>rd</sup>, Beju D, Khaw BA, Okada RD. 2010.  *$^{99m}\text{Tc}$ -glucarate kinetics differentiate normal, stunned, hibernating, and nonviable myocardium in a perused rat heart model.* **Eur J Nucl Med Mol Imag.** 37, 10:1909-17.
- Cheng D, Rusckowski M, Wang Y, Liu Y, Liu G, Liu X, Hnatowich D. 2011. *A Brief Evaluation of Tumor Imaging in Mice with  $^{99m}\text{Tc}$ -glucarate Including a Comparison with  $^{18}\text{F}$ -FDG.* **Current Radiopharmaceuticals** 4: 5-9.
- Gambini JP, Cabral P, Alonso O, Savio E, et al. 2011. *Evaluation of  $^{99m}\text{Tc}$ -Glucarate as a breast cancer imaging agent in a xenograft animal model.* **Nuclear Medicine and Biology** 38:255-260.
- Choudhury PS, Savio E, Solanki KK, Alonso O, Gambini JP, Doval D, Sharma P., Dondi M. 2012.  *$^{99m}\text{Tc}$ -Glucarate as a Potential Radiopharmaceutical Agent for Assessment of Tumor Viability: From Bench to the Bed Side.* **World Journal of Nuclear Medicine** 11:47-56.
- Isnardi V, Clotagatide A, Bruel S, Perek N. 2012. *Is  $^{99m}\text{Tc}$ -Glucarate uptake mediated by fructose transporter GLUT-5?* **Nuclear Medicine and Biology** 39:1226-1231.
- Wyffels L, Gray BD, Barber C, Pak KY, Forbes S, Mattis JA, Woolfenden J, Liu, Z. 2012. *Detection of myocardial ischemia-reperfusion injury using a fluorescent near-infrared zinc (II)-dipicolylamine probe and  $^{99m}\text{Tc}$ -glucarate.* **Molecular Imaging and Biology** 11:187-196.

- Meng L, Xiu L, Li Y, Xu X, Li S, Pak KY, Shi H, Cheng D. 2015. *Investigations of <sup>99m</sup>Tc-glucarate as a SPECT radiotracer for non-small cell lung cancer (NSCLC) and potential tumor uptake mechanism.* **Nuclear Medicine and Biology.** 42(7):608-13.
- Hossein S, Najmeh R, Fereshteh TA, Hossein A, Seyed MA, Seyed JH. 2018. *<sup>99m</sup>Tc-glucarate for assessment of paclitaxel therapy in human ovarian cancer in mice* **Iran J. Basic Med Sci** 21:77-82.
- Houson HA, Nkepang GN, Hedrick AF, Awasthi V. (2018) Imaging of isoproterenol-induced myocardial injury with 18F labeled fluoroglucaric acid in a rat model. **Nuclear Medicine and Biology.** 59: 9-15.

Update: February 1, 2019