

CURRICULUM VITAE

Hitoshi YOKOYAMA, MD, PhD

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Dept. of Cardiovascular Surgery
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PROFESSIONAL APPOINTMENT:

- 2001.1- Present position
1996.8-2000.12 Associate Professor
Dept. of Thoracic & Cardiovascular Surgery
Tohoku University School of Medicine, Sendai, Japan
1094.8-96.7 Research Associate (supported by Uehara Memorial Research Foundation, Japan)
Dept. of Cardiothoracic Surgery
Medical Collage of Pennsylvania & Hahnemann University, Philadelphia, USA
1994.7-96.7 Assistant Professor
Dept. of Thoracic & Cardiovascular Surgery
Tohoku University School of Medicine, Sendai, Japan
1992.6-94.6 Cardiac Surgeon
Dept. of Cardiovascular Surgery
Aomori General Hospital, Aomori, Japan
1991.4-92.5 Clinical Fellow
Dept. of Thoracic & Cardiovascular Surgery
Tohoku University Hospital, Sendai, Japan
1983.4-87.3 Resident
Division of Cardiothoracic Surgery & Anesthesiology, Department of Surgery
Mito National Hospital, Mito, Japan

CERTIFICATION:

- 1992.4 Japanese Board of Cardiothoracic Surgery
1989.4 Japanese Board of Surgery
1987.2 Japanese Board of Anesthesiology

MEMBERSHIP:

Japanese Association for Cardiovascular Surgery (Board member 2008-)
Japanese Association for Thoracic Surgery
Japanese Circulation Society
Japan Surgical Society
American Heart Association
International Society of Cardiovascular Surgery
International Society for Minimally Invasive Cardiothoracic Surgery

EDUCATION:

- 1987.4-91.3 Tohoku University Graduate School of Medicine
1977.4-83.3 Tohoku University School of Medicine

CLINICAL INTEREST:

Off-pump coronary artery bypass
Mitral valve surgery
Aortic surgery

RESEARCH INTEREST:

Cardiovascular Pharmacology
Heart Transplantation
Cardiac ischemia-reperfusion injury
Stem-cell transplantaion for ischemic heart disease
Three-dimensional analysis of coronary artery motion

SELECTED PUBLICATON: Hitoshi YOKOYAMA, MD, PhD

Yokoyama H, Yanagisawa T, Taira N. Details of mode and mechanism of action of Denopamine, a new orally active cardiotoxic agent with affinity for beta 1-receptors. *J Cardiovasc Pharmacol* 1988;12 (3):323-31.

Yokoyama H, Ohmi M, Iguchi A, Nakame T, Murata S, Tabayashi K, Mohri H. Changes in myocardial beta-adrenergic receptors during acute rejection of heterotopically transplanted rat hearts. *J Thorac Cardiovasc Surg* 1992;104:1567-71.

Yokoyama H, Togo T, Murata M, Osaka K, Tabayashi K, Mohri H. Cardiac over-dilatation after cardiopulmonary bypass: Ceramic plate technique for sternal splinting. *Ann Thorac Surg* 1993;56:971-2.

Yokoyama H, Maida K, Takahashi S, Tanaka S. Purulently infected abdominal aortic aneurysm: In situ reconstruction with trans-mesocolic omental transposition technique. *J Cardiovasc Surg* 1994;2:78-80.

Tabayashi K, Ohmi M, Togo T, Miura M, **Yokoyama H**, Akimoto H, Murata S, Ohsaka K, Mohri H. Aortic arch aneurysm repair using selective cerebral perfusion. *Ann Thorac Surg* 1994;57:1305-10.

Yokoyama H, Tanaka S. Simple arterial graft holder for coronary artery bypass grafting. *Ann Thorac Surg* 1995;59:533-4.

Yokoyama H, Ohmi M, Murata S, Nakame T, Tabayashi K, Mohri H. Proposal of working left heart model with a heterotopic transplantation technique in rats. *J Heart Lung Transplant* 1995;14:706-12.

Shen Z, Mohiuddin M, Goldstein C, **Yokoyama H**, DiSesa VJ. Durability of donor-specific and organ-specific heart transplant tolerance induced by intrathymic pretreatment with allogeneic spleen cells. *J Thorac Cardiovasc Surg* 1996;111 (2):429-31.

Yokoyama H, Lingle DM, Crestanello JA, Kamelgard J, Kott BR, Momeni R, Millili J, Mortensen SA, Whitman GJ. CoQ10 protects coronary endothelial function from ischemia reperfusion injury via an antioxidant effect. *Surgery* 1996;120:189-96.

Yokoyama H, Momeni R, Goldstein C, Mohiuddinn M, Shen Z, Fyfe B, Whitmann G, DiSesa VJ. Effect of vesnarinone, a novel orally active inotropic agent with an immunosuppressive action, on experimental cardiac transplantaion in rats. *Transplantation* 1996;62:1540-3.

Shen Z, Pelletier S, Mohiuddin M, **Yokoyama H**, Reiss RG, DiSesa VJ. Different immune effects on cardiac allografts and xenografts induced by neonatal intrathymic inoculation with allogeneic and xenogeneic antigens. *J Heart Lung Transplant* 1996;15:1034-8.

Shen Z, Mohiuddin M, **Yokoyama H**, Reiss R, DiSesa VJ. Induction of tolerance to an experimental cardiac allograft through intrathymic inoculation of class II major histocompatibility disparate antigens. *J Thorac Cardiovasc Surg* 1996;112:1315-8.

Yokoyama H, Sadahiro M, Iguchi A, Ohmi M, Tanaka S, Tabayashi K. Remnant omental transfer for the mediastinitis after coronary revascularization with right gastro-epiploic artery. *Ann Thorac Surg* 1999;68:269-71.

Yokoyama H, Ohmi M, Sadahiro M, Shoji Y, Moizumi Y, Tabayashi K. Spontaneous rupture of the thoracic aorta. *Ann Thorac Surg* 2000;70:683-9.

Yokoyama H. Aortic arch aneurysm complicated with coronary artery disease: Still a surgical challenge? *Ann Thorac Cardiovasc Surg* 2002;8(2):62-8.

Yokoyama H, Takase S, Misawa Y, Takahashi K, Sato Y, Satokawa H. A simple technique of introducing intracoronary shunts for off-pump coronary artery bypass surgery. *Ann Thorac Surg* 2004;78:352-5.

Yokoyama H, Sato Y, Takase S, Takahashi K, Wakamatsu H, Sato Y. Introduction of off-pump coronary artery bypass into aortic arch repair: A new solution for the surgical treatment of multiorgan arteriosclerosis. *J Thorac Cardiovasc Surg* 2005;129:935-6.

Yaoita H, Takase S, Maruyama Y, Sato Y, Satokawa H, Hoshi N, Ono N, Igari T, Ohto H, **Yokoyama H**. Scintigraphic assessment of the effects of bone marrow-derived mononuclear cell transplantation combined with off-pump coronary artery bypass surgery in patients with ischemic heart disease. *J Nucl Med* 2005;46:1610-7.

Watanabe T, Omata S, Odamura M, Okada M, Nakamura Y, **Yokoyama H**. Three-dimensional quantification of cardiac surface motion: A newly developed three-dimensional digital motion-capture and reconstruction system for beating heart surgery. *J Thorac Cardiovasc Surg* 2006;132:1162-71.

Wakamatsu H, Sato Y, Takase S, Sato Y, Satokawa H, **Yokoyama H**. Aortic arch repair with coronary artery revascularization. *Fukushima J Med Sci* 2009; 55: 52-60.

Takase S, **Yokoyama H**, Satokawa H, Sato Y, Kurosawa H, Kagoshima A. Short- and long-term outcome of the octogenarians after off-pump coronary artery bypass surgery. *Gen Thorac Cardiovasc Surg* 2010 (in press)

Wakamatsu H, Watanabe T, Sato Y, Takase S, Omata S, **Yokoyama H**. Selective beta-1 receptor blockade further reduces the mechanically stabilized target coronary artery motion during beating heart surgery. *Innovations* 2010 (in press)

Wakamatsu H, **Yokoyama H**. Landiolol reduces coronary artery motion in an open chest porcine model: Implication for off-pump coronary artery bypass surgery. *Surg Today* 2010 (in press)

INTERNATIONAL PRESENTATION: Hitoshi YOKOYAMA, MD, PhD

Yokoyama H, Goldstein C, Shen Z, Mohiuddinn M, DiSesa VJ. The effects of double strain intrathymic inoculation on tolerance induction to experimental cardiac allografts
81st Clinical Congress of the American College of Surgeon (New Orleans, USA), 1995

Shen Z, Mohiuddin M, Goldstein C, **Yokoyama H**, DiSesa VJ. The influence of non-MHC histocompatibility on cardiac and skin transplantation with intrathymic pretreatment
3rd International Congress on Heart Failure (Vienna, Switzerland), 1995.

Mohiuddin M, Shen Z, **Yokoyama H**, Goldstein C, DiSesa VJ. Improved experimental cardiac xenograft survival with cyclophosphamide and intrathymic donor cells
Pennsylvania Association for Thoracic Surgery (Philladelphia, USA), 1995

Shen Z, Mohiuddinn M, Goldstein C, **Yokoyama H**, DiSesa VJ. Tolerance to cardiac allografts but not xenografts after neonatal intrathymic inoculation with allo- and xenogeneic cells
3rd International Congress for Xenotransplantation (Boston, USA), 1995

Goldstein C, Reiss R, Mohiuddinn M, Shen Z, **Yokoyama H**, DiSesa VJ. Tolerance to cardiac allografts requires a time lag between intrathymic pretreatment and transplantation
41st Annual meeting of Association of Academic Surgeons (Ann Arbor, USA), 1995

Yokoyama H, Lingle DM, Crestanello JA, Kamelgard J, Kott BR, Momeni R, Millili J, Mortensen SA, Whitman GJ. CoQ10 protects coronary endothelial function from ischemic reperfusion injury via an antioxidant effect
57th Annual Meeting of the Society of University Surgeons (Washington D.C., USA), 1996

Yokoyama H, Momeni R, Kott B, Crestanello JA, Whitman GJ. Improved coronary vasodilatory function after ischemia reperfusion by lysosomal coenzyme Q10: Comparison with other antioxidant agents
82nd Clinical Congress of the American College of Surgeon (San Francisco, USA), 1996

Shen Z, Pelletier S, Mohiuddin M, **Yokoyama H**, Reiss RG, DiSesa VJ. Different immune effects on cardiac allografts and xenografts induced by neonatal intrathymic inoculation with allo- and xenogeneic antigens
International Association of Heart and Lung Transplantation, (New York, USA), 1996

Shen Z, Mohiuddin M, **Yokoyama H**, Reiss R, DiSesa VJ. The induction of tolerance to an

experimental cardiac allograft requires intrathymic inoculation of class II MHC disparate antigens

76th Annual Meeting of the American Association for Thoracic Surgery (San Diego, USA), 1996

Yokoyama H, Tabayashi K. Annuloaortic ectasia associated with chronic type-A dissection: Remodeling of aortic annulus and total arch replacement with elephant trunk

18th World Congress of the International Union of Angiology (Tokyo, Japan), 1998

Yokoyama H, Tabayashi K. Combined operation for the patients with aortic arch aneurysm and ischemic heart disease: Recent improvement in the myocardial protection

41st Annual World Congress of International College of Angiology (Sapporo, Japan), 1999

Yokoyama H, Ohmi M, Tabayashi K. Aortic arch repair: Recent advance to prevent postoperative complications

8th annual meeting of the Asian Society of Cardiovascular Surgery (Fukuoka, Japan), 2000

Sakuma K, Tanaka S, Watanabe S, **Yokoyama H**, Iguchi A, Ikada Y, Tabayashi K. Closure of pericardium using synthetic bioabsorbable polymers

7th international symposium on Artificial Heart & Assist Devices (Tokyo, Japan), 2000

Akimoto H, **Yokoyama H**, Tabayashi K. Early and mid-term outcome of aortic valve-sparing operation compared with conventional root replacement

8th annual meeting of the Asian Society of Cardiovascular Surgery (Fukuoka, Japan), 2000

Satokawa H, **Yokoyama H**, Midorikawa H, Ogawa T, Misawa Y. Catheter-directed thrombolysis for acute deep vein thrombosis

14th International Union of Phlebology (Rome, Italy), 2001

Igari T, **Yokoyama H**, Iwaya F, Hikichi H, Inagaki Y. Cardiopulmonary bypass system-mountable anesthetic machine: Pump operated with compressed air

13th World Congress of International Society for Artificial Organs (Osaka, Japan), 2001

Midorikawa H, Hoshino S, Ogawa T, Satou K, Ishikawa K, Igari T, **Yokoyama H**. Long-term results of endoluminal grafting for the treatment of descending thoracic aortic aneurysms

20th World Congress of the International Union of Angiology (New York, USA), 2002

Takase S, **Yokoyama H**, Satokawa H. Current situation of IABP in Japan: Experience on off-pump

coronary artery bypass surgery

International Symposium on Intra-Aortic Balloon Pumping (Tokyo, Japan), 2002

Satokawa H, **Yokoyama H**, Hoshino S, Igari T, Midorikawa H, Ogawa T. Catheter-directed thrombolysis for acute deep vein thrombosis

2nd Korea-Japan Joint Meeting for vascular surgery (Soul, Korea), 2003

Satokawa H, **Yokoyama H**, Sakaguchi S, Yamada C. The Japanese polidocanol (Aethoxys clerol) clinical trial

2003 UIP world congress chapter meeting, 2003

Yokoyama H Introduction of off-pump coronary artery bypass into aortic arch repair: A new solution for the treatment of multi-organ arteriosclerosis

9th Aortic Surgery Symposium (New York, USA), 2004

Satokawa H, **Yokoyama H**, Igari T, Sato Y, Takase S, Misawa Y, Wakamatsu H. Management of acute deepvein thrombosis: catheter-directed thrombolysis and inferior vena cave interruption

4th Korea-Japan Joint Meeting for vascular surgery (Jeju, Korea), 2005

Watanabe T, **Yokoyama H**. Three-dimensional quantification of cardiac surface motion in beating heart surgery

2nd World Congress of the International Academy of Cardiovascular Sciences (Sapporo, Japan), 2006

Satokawa H, **Yokoyama H**, Igari T, Sato Y, Takase S, Misawa Y, Wakamatsu H. Diagnosis and Treatment of Acute Deep Vein Thrombosis: Catheter-directed Thrombolysis and Inferior Vena Cava Interruption

Asian Chapter Congress of the International Union of Angiology (Taipei), 2007

Takase S, **Yokoyama H**, Satokawa Y, Sato Y, Misawa Y, Wakamatsu H, Kurosawa H, Muramatsu K, Kagoshima T, Yamabe T, Yamamoto A. Outcome of Endoluminal Stentgraft Combined with Reconstruction of Cervical Arteries in High Risk Patients

16th Annual Meeting of the Asian Society for Cardiovascular and Thoracic Surgery (Singapore), 2008

Sato Y, **Yokoyama H**. Surgery with double felt with glue technique for acute aortic dissection prevents reoperation in the long-term period

11th Aortic Surgery Symposium (New York, USA), 2008

Wakamatsu H, **Yokoyama H**. Pharmacological stabilization during off-pump coronary artery bypass: Effects of landiolol hydrochloride, a novel short acting beta-receptor antagonist

11th annual scientific meeting of International Society of Minimally Invasive Cardiothoracic Surgery (Boston. USA), 2008

Takase S, **Yokoyama H**, Satokawa H, Sato Y. Outcome of endoluminal stentgraft combined with reconstruction of cervical arteries in high risk patients

13th World Congress of the International Union of Angiology (Athens, Greece), 2008

Satokawa H, Igari T, Sato Y, Takase S, Misawa Y, Seto Y, **Yokoyama H**. Surgical treatments for infectious or inflammatory aneurysm

13th World Congress of the International Union of Angiology (Athens, Greece), 2008

Igari T, Satokawa H, **Yokoyama H**. Experience of therapeutic angiogenesis for ischemic disease by autologous mononuclear cells

13th World Congress of the International Union of Angiology (Athens, Greece), 2008

Sato Y, **Yokoyama H**. Medically Treated Patients With Acute Type A Intramural Hematoma of the Aorta: How They Should be Managed in the Long-term Period?

American Heart Association Scientific Session (Orlando, USA), 2009

: Abstract published in *Circulation* 120: S976, 2009

Takase S, Satokawa H, **Yokoyama H**. Outcome of custom designed stentgraft repair for chronic type B aortic dissection.

Asian Chapter Meeting of the International Union of Angiology (Tokyo), 2009

Sato Y, **Yokoyama H**. Controlled Antegrade Cerebral Hemisphere-separated Perfusion for Aortic Arch Repair

13th Aortic Symposium 2010 (New York, USA), 2010

Satokawa H, **Yokoyama H**. 「Current strategy for the deep vein thrombosis」

15th World Congress of the International Union of Angiology (Buenos Aires, Argentine), 2010

Sato Y, **Yokoyama H**. Aortic root involvement in acute type A intramural hematoma: Is it a risk for medical treatment?

American Heart Association Scientific Session (Chicago, USA), 2010