

API, AVI原著論文 リスト		2022/5/24			
資料NO	施設名	題名	誌名	著者	リンク先
1	埼玉大 代謝内科	2型糖尿病患者のオシロメトリック血圧測定による血管指標とFMD/IMTとの比較	Progress in Medicine 30:2003-2007, 2010.	秋山 隆、久野裕輝、早川尚雅、重藤誠、 榎澤政広、岡部正、松田昌文	http://iglobal.ist.go.jp/public/20090422/20100222292078530
2	Advanced Industrial Science and Technology (AIST) (国)産業技術総合研究所	Non-invasive assessment of arterial stiffness using oscillometric blood pressure measurement (オシロメトリック血圧計を用いた動脈硬さ評価方法)	BioMedical Engineering OnLine 2012, 11:6	Hidehiko Komine*, Yoshiyuki Asai, Takashi Yokoi and Mutsuko Yoshizawa	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3359259/
3	(国研)理化学研究所	A computational model of the cardiovascular system coupled with an upper-arm oscillometric cuff and its application to studying the suprasystolic cuff oscillation wave, concerning its value in assessing arterial stiffness (上腕オシロメトリック法に連結された心血管系の計算モデルと、動脈硬さの評価における suprasystolicカフの振動波の研究応用)	Computer Methods in Biomechanics and Biomedical Engineering	Fuyou Liang a, Shu Takagi a b, Ryutaro Himeno c & Hao Liu d	https://www.ncbi.nlm.nih.gov/pubmed/21916678
4	Kumamoto University 熊本大学循環器内科	Association of estimated central blood pressure measured non-invasively with pulse wave velocity in patients with coronary artery disease (冠動脈疾患患者における非侵襲的に測定された推定中樞血圧と脈波伝播速度との関連)	JUC Heart & Vasculature 8 (2015) 52-54	Daisuke Suetta, Eiichiro Yamamoto a,*, Tomoko Tanaka b, Yoshihiro Hirata a, Kenji Sakamoto a, Kenichi Tsujita a, Sunao Kojima a, Koichi Nishiyama b, Koichi Kaikita a, Seiji Hokimoto a, Hideaki Jinnouchi b, Hisao Ogawa a	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5497261/
5		The accuracy of central blood pressure waveform by novel mathematical transformation of non-invasive measurement (非侵襲的測定から新しい数学的変換によってえられる中心血圧波形の精度)	International Journal of Cardiology Available online 17 March 2015	Daisuke Suetta, Eiichiro Yamamoto, . . . Tomoko Tanakab, Yoshihiro Hirata, Kenji Sakamoto, Kenichi Tsujita, Sunao Kojima, Koichi Nishiyama, Koichi Kaikita, Seiji Hokimoto, Hideaki Jinnouchib, Hisao Ogawa	https://pubmed.ncbi.nlm.nih.gov/25897917/
6	The University of Tokyo 東京大学公衆衛生学教室	Association between novel arterial stiffness indices and risk factors of cardiovascular disease (新しい動脈硬化指数と心血管疾患の危険因子との関連)	BMC Cardiovascular Disorders (2016) 16:211	Masaki Okamoto1*, Fumiaki Nakamura1, Terunaga Musha2 and Yasuki Kobayashi1	https://www.ncbi.nlm.nih.gov/pubmed/27821070
7	Tohoku University 北大学内臓障害	Arterial Stiffness Measured with the Cuff Oscillometric Method Is Predictive of Exercise Capacity in Patients with Cardiac Diseases (カフオシロメトリック法で測定された動脈硬さは、心臓病患者的運動耐容能の予測値である)	Tohoku J. Exp. Med., 2016, 239, 0152c78-lo1m34etr	Yasushi Tazawa, Nobuyoshi Mori, Yoshihiro Ogawa, Osamu Ito and Masahiro Kohzaki	https://www.istage.ist.go.jp/article/tjem/239/2/239_127/article
8	Tokyo Medical University 東京医科大学循環器内科	Comparison of the clinical significance of single cuff-based arterial stiffness parameters with that of the commonly used parameters (単一カフに基づく動脈硬化パラメータと一般的に使用されるパラメータとの臨床的意義の比較)	Journal of Cardiology xxx (2016) xxx-xxxx	Shunsuke Komatsu (MD), Hirofumi Tomiyama (MD, FJCC)*, Kazutaka Kimura (MD), Chisa Matsumoto (MD), Kazuki Shina (MD, FJCC), Akira Yamashina (MD, FJCC)	https://www.journal-of-cardiology.com/article/S0914-5087(16)30119-8/pdf
9		Increase in the Arterial Velocity Pulse Index of Patients with Peripheral Artery Disease 血管障害の評価にAVIを使用する際は、末梢動脈疾患 (PAD=peripheral arterial disease)が存在する可能性を考慮しなければならない。	Pulse 2017;5:154-160	Naotaka Murata Kazuki Shina Jun Yamashita Nobuhiro Tanaka Taishiro Chikamori Akira Yamashina Hirofumi Tomiyama	https://www.ncbi.nlm.nih.gov/pubmed/29761091
10	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University 上海交通大学第九病院	Non-invasive Assessment of Early Atherosclerosis Based on New Arterial Stiffness Indices Measured with an Upper-Arm Oscillometric Device (上腕オシロメトリック装置を用いて測定した新しい動脈硬化指数に基づく早期アテローム性動脈硬化症の非侵襲的評価)	Tohoku J. Exp. Med., 2017, 241, 263-270a	Yaping Zhang,1* Ping Yin,1* Zuojun Xu,1 Yushu Xie,1 Changqian Wang,1 Yuyi Fan,1 Fuyou Liang2 and Zhaofang Yin1	https://www.istage.ist.go.jp/article/tjem/241/4/241_263/article
11	Yokohama City University 横浜市立大学循環器内科	Successful prediction of cardiovascular risk by new non-invasive vascular indexes using suprasystolic cuff oscillometric waveform analysis (収縮期以上のカフオシロメトリック波形状解析を用いた新しい非侵襲的血管指標による心血管リスクの予測)	Journal of Cardiology 69 (2017) 30-37	Rie Sasaki-Nakashima (MD)a,b, Tabito Kino (MD)a,b, Lin Chen (MD)a,b, Hiroshi Doi (MD)a,b, Shintaro Minegishi (MD, PhD)a,b, Kaito Abe (MD, PhD)a,b, Teruyasu Sugano (MD, PhD)a,b, Masataka Taguri (PhD)c, Tomoaki Ishigami (MD, PhD)a,b,*	https://www.journal-of-cardiology.com/article/S0914-5087(16)30121-6/fulltext
12		New non-invasive indexes of arterial stiffness are significantly correlated with severity and complexity of coronary atherosclerosis. 動脈硬化の新しい非侵襲的指標は、冠動脈アテローム性動脈硬化症の重症度および複雑さと有意に相関する。	Clinical and Experimental Hypertension 2018 May 8;1-7.	Doi H1,2, Ishigami T1,2, Nakashima-Sasaki R1,2, Kino T1,2, Chen L1,2, Arakawa K1,2, Tanaka S1,2, Minegishi S1,2, Abe K1,2, Ishikawa T1,2, Sugano T1,2, Tamura K1	https://pubmed.ncbi.nlm.nih.gov/29737880/
13		Arterial Velocity Pulse Index as a Novel Marker of Atherosclerosis Using Pulse Wave Analysis on High Sensitivity Troponin T in Hypertensive Patients (高血圧患者の高感度トロポニンTと脈波解析を用いたアテローム性動脈硬化症のマーカーとしての速度脈波指標AVI)	Cardiol Res. 2017;8(2):36-43	Takashi Htsumoto	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5421484/
14	Hitsumoto Medical Clinic ひつもと循環器内科CL	Relationships between the arterial velocity pulse index as a novel marker of atherosclerosis and biomarkers of cardiac or renal condition in patients with type 2 diabetes mellitus 2型糖尿病患者におけるアテローム性動脈硬化症の新規マーカーである動脈速度パルス指数と心臓または腎臓のバイオマーカーの関係	Diabetology International pp 1-8 2017	Takashi Htsumoto	https://link.springer.com/article/10.1007/s13340-017-0329-8
15		Clinical Significance of Arterial Velocity Pulse Index in Patients With Stage B Heart Failure With Preserved Ejection Fraction 駆出率が維持されたB期心不全患者における動脈速度パルス指数の臨床的意義	Cardiol Res. 2019;10(3):142-149	Takashi Htsumoto	https://pubmed.ncbi.nlm.nih.gov/31236176/
16	Harumidai Clinic 晴海台CL 内科	Effects of Long-term Physical Training on the Bearers of a Float during the Nagasaki Kunchi Festival (長崎くんち祭りにおける山車の担い手に対する長期練習の効果)	Intern Med 56: 11-16, 2017	Shigemori Shibata 1, Hiroaki Kawano 2 and Koji Maemura2	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5313419/
17	Teikyo University of Science 帝京科学大学運動生理	New indices of arterial stiffness measured with an upper-arm oscillometric device in active versus inactive women (若い女性における運動習慣の有無と上腕オシロメトリック装置で測定された新しい動脈硬化の指標)	Physiol Rep. 6 (5), 2018, e13574, https://doi.org/10.14814/phyz.213574	Ryota Kobayashi1, Soichiro Iwanuma2, Nobuyuki Ohashi2 & Takeo Hashiguchi2	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5827568/
18	Nagasaki University 長崎大学先端予防医学	Screening Validity of Arterial Pressure-Volume Index and Arterial Velocity-Pulse Index for Preclinical Atherosclerosis in Japanese Community-Dwelling Adults: the Nagasaki Islands Study (日本の地域社会に暮らす成人における発症発現前のアテローム性動脈硬化症のスクリーニングに対する動脈圧容積指数と動脈速度脈波指標の有効性)	J Atheroscler Thromb. 2019 Feb 3; doi: 10.5551/jat.43125. [Epub ahead of print]	Hiroto Ymanashi	https://www.ncbi.nlm.nih.gov/pubmed/29398680
19		Association of Arterial Pressure Volume Index With the Presence of Significantly Stenosed Coronary Vessels (有意に狭窄した冠動脈の存在と動脈圧容積指数との関連)	J Clin Med Res. 2016;8(8):598-604	Takashi Ueda, Shin-ichiro Miura, b, d, Yasunori Suematsu, Yuhei Shiga, Takashi Makoto Sugihara, Amano Ika, Atsushi Iwata, Hiroaki Nishikawa, Kanta Fujima, c.	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4931806/
20	Fukuoka University 福岡大学循環器内科	Cardiac rehabilitation in patients with cardiovascular disease leads various hemodynamic parameters obtained using simple non-invasive tests to their appropriate levels 心臓血管疾患の患者の心臓リハビリテーションは、簡便な非侵襲的試験器を用いて得られた様々な血行動態パラメータを適切なレベルに導く	JUC Heart & Vasculature 17 (2017) 23-29	Makito Futami a,1, Kanta Fujimi a,b,1, Takashi Ueda a, Takuro Matsuda b, Masaomi Fujita b, Kouji Kainob, Maaya Sakamoto a, Tomoe Horita c, Rie Koyoshi a, Tadaaki Arimura a, Yuhei Shiga a, Takashi Kuwana a, Ken Kitajima a, Keigo Saku a,d, Shin-ichiro Miura a,d,*	https://www.ncbi.nlm.nih.gov/pubmed/29201997
21	Nippon Shinyaku Co., Ltd. 日本新薬・東海大学	Effect of mangosteen pericarp extract on skin moisture and arterial stiffness: Placebo-controlled double-blinded randomized clinical trial マングスチン果皮抽出物が皮膚の水分および動脈硬化に及ぼす影響-プラセボ対照二重盲検ランダム化臨床試験	Glycative Stress Research	Kazuhito Maejima 1), Rei-ichi Ohno 2), Ryoji Nagai 2, 3), Shuji Nakata 4)	http://www.toukassress.jp/webj/article/2018/GS18-15.pdf
22	University of Miyazaki 宮崎大学循環器内科	Seasonal variation of novel arterial stiffness indexes in Japanese hypertensive patients 日本人高血圧患者における新しい動脈硬化指数の季節変動	Clinical and Experimental Hypertension	Toshihiro Kita & Kazuo Kitamura	https://www.ncbi.nlm.nih.gov/pubmed/30409046/
23	Niigata University 新潟大学医学部総合研究科 先進血管病・血栓症治療・予防医療新潟大学医学部総合研究科呼吸器外科	Relationship between high intensity transient signals at common carotid artery by paste type probe and cerebro-cardiovascular disease in the residents in the area of Chuetsu Oki Earthquake新潟県中越沖地震被災地域一般住民における貼り付け型プローブを用いた総頸動脈のhigh intensity transient signalsと脳・心血管疾患との関連	Article in Neurosonology 32(2):46-52 January 2019	橋沢 和彦, 伊倉 真衣子, 岡本 竹司, 大久保 由華, 土田 正則, 中島 孝, 品田 恭子, 岡村 治	https://ci.nii.ac.jp/naid/130007709115/
24	Yokohama City University 横浜市立大学循環器内科	Successful prediction of clinical outcomes using arterial velocity pulse index, a new non-invasive vascular index, in Japan 新しい非侵襲的血管指標である動脈速度脈波指標 (AVI)は臨床転帰を良好に予測する	Vascular Failure 2019; 3(2): 43-50	Rie Sasaki-Nakashima1), Tomoaki Ishigami1), Tabito Kino1), Sae Taranaka-Saigo1), Lin Chen1), Hiroshi Doi1), Michiko Sugiyama1), Shintaro Minegishi1), Kentaro Arakawa1), Kaito Abe1), Hiromichi Wakui1), Kengo Azushima1), Kouichi Tamura1)2) and Kazuo Kimura1)2)	https://www.istage.ist.go.jp/article/vascfail/3/2/3_43/article-char/en
25	Department of Cardiology, The First Affiliated Hospital, Chengdu Medical College 成都医療大学	Roles of arterial pressure volume index and arterial velocity pulse index trajectories in risk prediction in hypertensive patients with heart failure with preserved ejection fraction	Journal Clinical and Experimental Hypertension Volume 42, 2020 - Issue 5	Jindong Wan 1 2, Sen Liu 1 2, Yi Yang 1 2, Dan Wang 1 2, Fei Ran 1 2, Siwei Xia 1 2, Shuangtao Ma 3, Jixin Hou 1 2, Peng Zhou 1 2, Yun Sun 4, Peijian Wang 1 2	https://www.tandfonline.com/doi/full/10.1080/10641963.2019.1705319
26	School of Naval Architecture, Ocean & Civil Engineering, Shanghai Jiao Tong University 上海交通大学	Theoretical Method and Clinical Experiments for Estimating Arterial Stiffness Based on Upper-Arm Cuff Oscillometric Wave	中国医疗设备 2018, Vol. 33 Issue (4): 22-28 DOI: 10.3969/j.issn.1674-1633.2018.04.006	ZHANG Xujie1, ZHANG Yaping2, YIN Zhaofang3, QIN Karong4, LIANG Fuyou1	http://cs.china-cmd.org/gvysb/CN/abstract/abstract3246.shtml
27	Department of Cardiology, Kurume University Medical Center, Kurume 久留米大学	Increased arterial velocity pulse index is an independent factor related to skeletal muscle mass reduction and tissue damage in patients with cardiovascular disease	Hypertension Research (2020) 43:534-542	Haruhito Harada1, Hisao Ikeda2, Yasuhiro Nishiyama1, Hiroshi Niyama1, Atsushi Katoh1, Hisashi Kai1	https://www.nature.com/articles/s41440-020-0404-6
28	West China Hospital, Sichuan University 四川大学医院	New indices of arterial stiffness correlate with disease severity and mid-term prognosis in acute decompensated heart failure	Internal and Emergency Medicine Official Journal of the Italian Society of Internal Medicine	Junteng Zhou, Yushu Wang, Yizhou Feng, Xiaojing Chen & Qing Zhang	https://link.springer.com/article/10.1007/s11739-020-02486-x
29	長崎県農林技術開発センター 食品加工研究室	摘果ミカドと緑茶三番茶葉を混合撹拌して製造した発酵茶摂取が動脈血管の柔軟性に及ぼす影響 —ランダム化二重盲検プラセボ対照並行群間比較試験—	Jpn Pharmacol Ther (薬理と治療) vol. 49 no. 1 2021	宮田 裕次1) 田中 隆2) 松井 利郎3) 大曲 勝久4) 湯浅 正洋4) 山本 咲咲子4) 田中 一成4)	http://www.ajeronline.jp/content/article/0386-3603/49010/63
30	Juntendo University 順天堂大学	Arterial Stiffness Index and Exercise Tolerance in Patients Undergoing Cardiac Rehabilitation	Int Heart J Advance Publication	Kei Fujiwara 1, Kazunori Shimada 1 2 3, Mho Nishitani-Yokoyama 1 2, Mitsuhiko Kurimoto 1, Tomomi Matsubara 1, Rie Matsumori 1, Abidan Abulimti 1 3, Tatsuro Aikawa 1, Shohei Ouchi 1, Megumi Shimizu 1, Kosuke Fukao 1, Tetsuro Miyazaki 1, Akio Horizawa 2, Miki Yamada 2, Masakazu Saitoh 4, Tomoyuki Morizawa 4, Tetsuya Takahashi 4, Hiroyuki Daida 1 3 4, Toku Minamoto 1 5	https://pubmed.ncbi.nlm.nih.gov/33731517/
31	Teikyo University of Science 帝京科学大学	Effect of aerobic exercise training frequency on arterial stiffness in middle-aged and elderly females	The Journal of Physical Therapy Science	Ryota Kobayashi, PhD1)*, Kenji Asaki2), Takeo Hashiguchi, PhD3), Hideyuki Negoro, MD, PhD4, 5)	https://pubmed.ncbi.nlm.nih.gov/35527837/
32	Kanazawa University 金沢大学	Relationships between muscle sympathetic nerve activity and novel indices of arterial stiffness using single oscillometric cuff in patients with hypertension	Physiological Reports. 2022;10:e15270.	Hiroyuki Sugimoto1 Takuto Hamaoka1,2 Hisayoshi Mura1,3 Tadayuki Hirai1 Yusuke Mukai1 Takashi Kusayama1 Shinichiro Takahama1 Takeshi Kato1 Shigeo Takata3 Soichiro Usui1 Kenji Sakata1 Masa-Aki Kawashiri Masayuki Takamura1	https://pubmed.ncbi.nlm.nih.gov/35587702/
33	Shanghai University of Medicine & Health Sciences Affiliated Zhoupu Hospital 上海大学	Effects of high-intensity interval training on improving arterial stiffness in Chinese female university students with normal weight obese a pilot randomized controlled trial	J Transl Med 2022 Feb 2;20(1):60.	Jingyun Hu1†, Min Liu2†, Ruoyu Yang3†, Liyan Wang3, Leichao Liang3, Yuanyuan Yang3, Shihao Jia3, Ruiyi Chen3, Qianle Liu3, Yu Ren3, Lei Zhu2 and Ming Cai4*	https://pubmed.ncbi.nlm.nih.gov/35109880/