

Table 2-2 FH ヘテロ接合体の臨床診断（小児用）

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|-----------------------------------|---------------|-------|-----|
| 1. LDL コレステロール値 | 140-160 mg/dL | | 4 点 |
| | 160-180 mg/dL | | 5 点 |
| | >180 mg/dL | | 6 点 |
| 2. 家族歴（両親）について | | | |
| 以下の項目に該当の場合 | | | 4 点 |
| 若年性冠動脈疾患（男性<55 歳、女性<65 歳）あるいは | | | |
| LDL コレステロール値>180 mg/dL | | | |
| ただし、FH と確定診断されている場合 | | | 6 点 |
| 3. 黄色腫について以下の項目に該当の場合 | | | 6 点 |
| ・腱黄色腫または、皮膚結節性黄色腫の存在が確認できる。 | | | |
| ・X線軟線撮影またはゼロラジオグラフィーによるアキレス腱肥厚の判定 | | | |
| （側面で最大径 9 mm 以上） | | | |
| 4. LDL レセプター遺伝子変異が認められた場合 | | | 8 点 |

LDL レセプター活性低下（健常人の 80%未満）は、診断の参考になり得る。

各項目の合計点数が

6 点以上で FH 疑い

8 点以上で FH と確定診断とする。

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Table 3 FH ヘテロ接合体の主要なリスク因子

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- 1 年齢
 - 男性: ≥ 30 歳
 - 女性: ≥ 45 歳または閉経後
 - 2 喫煙: 現在の喫煙
 - 3 若年性冠動脈疾患 (一親等の親類の男性 < 55 歳
あるいは女性 < 60 歳) の家族歴
 - 4 未治療時の LDL コレステロール: > 270 mg/dL あるいはアキレス腱厚 (> 15 mm)
 - 5 HDL コレステロール: < 40 mg/dL またはトリグリセライド: > 150 mg./dL
 - 6 糖尿病 (耐糖能異常を含む)
 - 7 高血圧 ($> 140/90$)
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Table 4 カテゴリーリスクに応じた目標 LDL コレステロール値

カテゴリー	主要リスクの数	目標 LDL コレステロール値
		mg/dL
中等度リスク	0~1	120
高リスク	2つ以上あるいは冠動脈、頸動脈などに 明らかな動脈硬化による狭窄を認める	100

F. 研究発表

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- Takeshi Matsubara, Kojiro Nagai, Akira Mima, Hiroshi Kanamori, Noriyuki Iehara, Motoko Yanagita, Atsushi Fukatsu, Toru Kita, Toshio Doi, and **Hidenori Arai** Urinary Smad1 is a novel diagnostic marker to predict mesangial matrix expansion in rat diabetic nephropathy
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Takashi Akamizu, Toru Kita, Kaeko Kamei, and Masayuki Yokode C-C chemokine receptor-2 Inhibitor Ameliorates Insulin Resistance And Hepatic Steatosis In Db/db Mice. Yukinori Tamura, **Hidenori Arai**, Masayuki Sugimoto, Toshinori Murayama, Yukihiko Ueda, Hiroshi Kanamori, Koh Ono, Hiroyuki Ariyasu, Takashi Akamizu, Toru Kita, Masayuki Yokode

第28回日本肥満学会(平成19年10月19日から20日、東京) MCP-1のシグナル遮断は肥満モデルマウスにおける内臓脂肪蓄積とインスリン抵抗性を改善する 荒井秀典、田村行織、杉本正志、村山敏典、北 徹、横出正之

第17回日本医療薬学会(平成19年9月29日から30日、前橋) シンポジウム:高齢者における薬物療法のエビデンス 高齢者高脂血症の管理と薬物療法 荒井秀典

第39回日本動脈硬化学会(平成19年7月13日から14日、大阪)

・シンポジウム:メタボリックシンドロームの血管合併症の分子機構 CCR2 阻害剤プロバゲルマニウムは肥満モデルマウスにおけるインスリン抵抗性を改善する 田村行織 荒井秀典 杉本正志 村山敏典 上田之彦 尾野亘 北徹 横出正之
・ランチョンセミナー

日本人における積極的脂質低下療法—今後の展望— 荒井秀典

第49回日本老年医学会(平成19年6月19日から21日、札幌)

・高齢者の口腔乾燥感と主観的健康観との関連 西岡弘晶, 和田泰三, 荒井秀典

・動脈硬化検査における機能評価と形態評価との比較検討 荒井秀典

第52回日本透析学会(平成19年6月15日から17日、大阪) 透析患者の心理社会的QOLと予後について(続報) 金森弘志, 荒井秀典, 藤巻恵一, 家原典之, 深津敦司, 松林公蔵, 北徹

67th annual meeting of American Diabetes Association (June 22-26, 2007, Chicago, USA)

・Advanced Glycation Endproducts is Involved in the Development of Age-associated Glomerulosclerosis through Growth Arrest Specific Gene 6 TAKESHI MATSUBARA, KOJIRO NAGAI, MOTOKO YANAGITA, AKIRA MIMA, HIROSHI KANAMORI, ERIKO SUMI, NORIYUKI IEHARA, ATSUSHI FUKATSU, TORU KITA, TOSHIO DOI, **HIDENORI ARAI**

・Angiotensin II Type 1 Receptor Blocker Decreases Urinary Smad1, A Marker For Mesangial Matrix Expansion In Diabetic Nephropathy AKIRA MIMA, **HIDENORI ARAI**, TAKESHI

MATSUBARA, HIDEHARU ABE, HIROSHI KANAMORI, ERIKO SUMI, TATSUYA TOMINAGA, TOSHIKAZU TAKAHASHI, MOTOKAZU MATSUURA, NORIYUKI IEHARA, ATSUSHI FUKATSU, TORU KITA, TOSHIO DOI 第76回欧州動脈硬化学会(平成19年6月10日から13日、ヘルシンキ)

HIGH CARDIO-ANKLE VASCULAR INDEX (CAVI) CAN PREDICT THE DEVELOPMENT OF CAROTID ATHEROSCLEROSIS **Hidenori Arai**

第50回日本腎臓学会(平成19年5月25日から27日、浜松)

・尿中 Smad1 は糖尿病性腎症の治療効果を反映する新規マーカーになりうる

美馬晶, 荒井秀典, 松原雄, 安部秀斉, 金森弘志, 角栄里子, 富永辰也, 高橋利和, 松浦元一, 家原典之, 深津敦司, 北徹, 土井俊夫

・糖尿病性腎症の進展における一酸化窒素の意義 金森弘志, 松原雄, 美馬晶, 角栄里子, 高橋利和, 安部秀斉, 家原典之, 深津敦司, 北徹, 土井俊夫, 荒井秀典

・加齢に伴う糸球体変化における Growth arrest specific gene 6(Gas6)の役割

松原雄(京都大学 腎臓内科), 長井幸二郎, 柳田素子, 美馬晶, 金森弘志, 角栄里子, 家原典之, 深津敦司, 北徹, 土井俊夫, 荒井秀典

・第50回日本糖尿病学会(平成19年5月24日から26日、仙台)

糖尿病性腎症における MCP-1/CCR2 の役割 金森 弘志, 松原 雄, 美馬 晶, 角 栄里子, 長井 幸二郎, 高橋 利和, 安部 秀斉, 家原 典之, 深津 敦司, 北 徹, 土井 俊夫, 荒井 秀典

・第104回日本内科学会総会(平成19年4月3日から5日、大阪国際会議場)

西暦2000年日本人の血清脂質調査における遺伝子解析—アポE多型と血清脂質—

荒井秀典、北 徹

Keystone Symposia (2007年3月27日から4月1日、Steamboat Springs, Colorado, USA)

Inhibition of MCP-1/CCR2 improves diabetic nephropathy by reducing macrophage infiltration **Hidenori Arai** and Hiroshi Kanamori

第3回血管バイオメカニクス研究会(平成18年11月9日、東京)

動脈硬化検査における機能評価(CAVI)と形態評価(IMT)について 荒井秀典

2006 American Society of Nephrology Annual Meeting (San Diego, USA, Nov. 15-19, 2006)

・Blockade of MCP-1/CCR2 ameliorates the

progression of glomerulosclerosis in diabetic nephropathy

Hiroshi Kanamori, Akira Mima, Toshikazu Takahashi, Hideharu Abe, Takeshi Matsubara, Kojiro Nagai, Eriko Sumi, Noriyuki Iehara, Atsushi Fukatsu, Toshio Doi, Toru Kita, and **Hidenori Arai**

• Role of SOX9 as a transcriptional regulator for collagen type IV in the kidney

Eriko Sumi, Noriyuki Iehara, **Hidenori Arai**, Haruhiko Akiyama, Akira Mima, Hiroshi Kanamori, Atsushi Fukatsu, David J Salant, Toru Kita, and Toshio Doi

• Role of Src and Smad1 in Angiotensin II-dependent mesangial matrix expansion in diabetic nephropathy

Akira Mima, **Hidenori Arai**, Takeshi Matsubara, Hideharu Abe, Hiroshi Kanamori, Eriko Sumi, Noriyuki Iehara, Atsushi Fukatsu, Toshikazu Takahashi, Tatsuya Tominaga, Toru Kita, Toshio Doi.

• Psychosocial quality of life of hemodialysis patients in Japan: Comparison between elderly and non-elderly patients Hiroshi Kanamori, **Hidenori Arai**, Takeshi Matsubara, Akira Mima, Motoko Yanagita Masayuki Ishine, Noriyuki Iehara, Akira Hara, Keiichi Fujimaki, Kazumasa Usami, Shinkichi Taniguchi, Atsushi Fukatsu, Toru Kita, and Kozo Matsubayashi

第14回生体パーオキサイド研究会(平成18年8月12日、仙台 勝山館)

特別講演 動脈硬化発症におけるリポ蛋白の酸化変性の意義について 荒井秀典

第38回日本動脈硬化学会(平成18年7月13,14日、東京国際フォーラム)

シンポジウム4 発達、加齢、性差を考慮した高脂血症・動脈硬化の管理

高齢者における脂質管理はどうあるべきか 荒井秀典

第14回国際動脈硬化学会(2006年6月18日から22日、ローマ) Survey of gene polymorphisms on four genes related to triglyceride and HDL-cholesterol in the general Japanese population in 2000 **Hidenori Arai**, and Toru Kita

66th annual meeting of American Diabetes Association (June 9-13, 2006, Washington DC, USA)

• Angiotensin II-dependent activation of Src and Smad1 is crucial for the development of diabetic nephropathy

Akira Mima, **Hidenori Arai**, Takeshi Matsubara, Hideharu Abe, Hiroshi Kanamori, Eriko Sumi, Noriyuki Iehara, Atsushi Fukatsu, Toshikazu Takahashi, Tatsuya Tominaga, Toru Kita, Toshio Doi.

• Role of MCP-1/CCR2 in Diabetic

Glomerulosclerosis.

Hiroshi Kanamori, Akira Mima, Toshikazu Takahashi, Hideharu Abe, Takeshi Matsubara, Kojiro Nagai, Eriko Sumi, Noriyuki Iehara, Atsushi Fukatsu, Toshio Doi, Toru Kita, and **Hidenori Arai**

第48回日本老年医学会(平成18年6月7-9日金沢)

• 老年医療における Controversy 高齢者糖尿病の治療 予後を重視した厳格な治療 vs.QOLを重視したマイルドな治療 マイルド 荒井秀典

• 健常高齢者を対象とした臨床研究 グレリン血中濃度測定研究

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• Akira Mima, Takeshi Matsubara, **Hidenori Arai**, Hideharu Abe, Kojiro Nagai, Hiroshi Kanamori, Eriko Sumi, Noriyuki Iehara, Atsushi Fukatsu, Toru Kita, Toshio Doi.

• Blockade of MCP-1/CCR2 ameliorates the progression of glomerulosclerosis in diabetic nephropathy

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Smad1 is directly associated with diabetic glomerulosclerosis

Takeshi Matsubara, **Hidenori Arai**, Hideharu Abe, Kojiro Nagai, Akira Mima, Hiroshi Kanamori, Eriko Sumi¹, Toshikazu Takahashi, Noriyuki Iehara, Atsushi Fukatsu, Toru Kita, and Toshio Doi

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・新しい糖尿病性腎症モデルの解析 長井幸二郎、稲田明理、荒井秀典、野村啓子、山田裕一郎、深津敦司、清野裕

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・凝固第 Xa 因子による培養メサンギウム細胞の細胞増殖における PAR2 を介した分子メカニズム
Molecular mechanisms in factor Xa-induced cellular proliferation of cultured human mesangial cells through PAR2

田中美佐、荒井秀典、劉寧、野垣文昭、野村啓子、糟野健司、種田 絵美、北徹、小野孝彦

・オルメサルタンは Smad1 の発現を抑制することにより糖尿病性腎症を改善する

美馬晶、松原雄、安部秀斉、長井幸二郎、金森弘志、角栄里子、家原典之、深津敦司、北徹、荒井秀典、土井俊夫

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荒井秀典

・高血圧・脳血管障害を合併する虚弱高齢者の院内肺炎発症率

鳥羽研二、荒井秀典、鈴木祐介、中山勝敏、寺本信嗣、秋下雅弘、森本茂人、稲松孝思

・大学病院老年科外来における併科受診と多剤併用の多施設実態調査

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