
循環器内科学講座

【研究プロジェクト名および概要】

1. 急性冠症候群の発生機序、病態ならびに治療に関する研究
2. 冠攣縮性狭心症の発生機序、病態ならびに治療に関する研究
3. 心不全の病因・病態の研究とそれに基づいた治療法の開発
4. 心血管疾患における血管内皮機能の臨床的評価と血管内皮細胞障害マーカーに関する研究
5. 心筋虚血、急性心筋梗塞における虚血再灌流の実験的検討と治療法の開発
6. 血栓形成における血小板活性化、凝固制御因子と冠動脈疾患における役割についての検討
7. 歯周病、感染症と冠動脈疾患の関連についての臨床研究
8. 心血管疾患の病因・病態における酸化ストレスの役割についての臨床的検討
9. 臨床不整脈における心腔内心電図による電気生理学的検討
10. 骨格筋より分泌される新規心血管保護因子の同定とその機能解析
11. 日本人の2型糖尿病患者におけるアスピリンの動脈硬化性疾患一次予防効果に関する研究(JPAD)
12. 高リスクを有する高血圧患者における各種バイオマーカーと心血管イベント発症に対するアンジオテンシンII受容体拮抗薬(ARB)の効果 (ATTEMPT)
13. 熊本大学関連病院における冠動脈インターベンションの施行の共同データベースを構築(KICS)
14. 冠動脈プラーク退縮におけるコレステロール吸収阻害薬および合成阻害薬の効果-血管内超音波を用いた検討-(PRECISE-IVUS trial)
15. 急性心筋梗塞後患者における長時間作用型カルシウム拮抗薬の有効性に関する前向き無作為臨床試験 (ACROSS-AMI Study)
16. 熊本県心血管エコー検査標準化プロジェクト (K-CHAP)
17. 熊本地震発生後の急性脳・心血管疾患発生数と予後に関する研究(KEEP project)
18. 急性心筋梗塞患者を対象とした炎症マーカーMMPsに対するロスバスタチンの用量比較試験 (INVITATION trial)
19. 経カテーテル的大動脈弁留置術を施行する心房細動合併重症大動脈弁狭窄症の無症候性血栓弁の形成におけるエドキサバンによる血栓の消退効果の評価(ENRICH-TAVI study)
20. 新規総合的血栓形成能評価システム(T-TAS)を用いた静脈血栓塞栓症におけるアピキサバン治療の有効性、安全性の評価(MARVEL-TTAS Study)
21. 透析患者における心血管病イベント発症リスクの実態把握に関する研究
22. 医工連携に基づく microX 線 CT の応用に関する研究
23. 循環器疾患における直接的経口抗凝固薬の新規モニタリングシステムの確立
24. 遺伝子多型による薬物相互作用、急性冠症候群リスク層別化の検討
25. 心アミロイドーシスの早期診断と心血管予後、疾患修飾治療薬の治療効果に関する研究
26. 熊本における心アミロイドーシスのレジストリー研究
27. 手根管症候群手術症例を対象とした心アミロイドーシスの早期診断に関する研究
28. 非虚血性心筋症における冠微小循環障害による病態進行に関する研究
29. 当院における AL アミロイドのデータ解析および予後に関する研究
30. 肺高血圧患者における血管内皮機能に関する研究
31. CT-ECV を用いた心筋症の診療の有用性と早期診断に関する研究
32. 心筋症における遺伝子異常と臨床経過および心臓画像初見に関する研究
33. 分子標的療法における血管内皮機能に対する検討
34. 熊本地震後エコノミークラス症候群の発生状況に関する調査
35. 悪性腫瘍と動脈硬化疾患との併存に関する調査
36. 末梢動脈疾患における血管内治療(EVT)の多施設前向きレジストリー研究(Kumamoto EVT registry)
37. 末梢血単核球移植による血管再生治療
38. ALDH2 遺伝子変異型アレル保有者における心房細動再発についての検討
39. 無透視下で行う心房細動に対するカテーテルアブレーションの有効性
40. 心房細動に対するカテーテルアブレーションにおける医療従事者の被曝についての検討
41. 心房細動に対するカテーテルアブレーションにおけるカテーテルコンタクトベクトルと焼灼領域の再伝導との関連についての検討

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【関連講座】 不整脈先端医療寄附講座
 心血管治療先端医療寄附講座
 心臓リハビリテーション寄附講座
 循環器予防医学先端医療寄附講座
 脳・心血管機能解析学共同研究講座

【特殊技術・特殊装置】

- 冠動脈造影法、血管内超音波法、光干渉断層法、血管内視鏡、冠動脈内圧・血流速(CFR・FFR・IMR)測定、320列CT、エキシマレーザー(血管形成装置、心内リード抜去システム)
- 大動脈バルーンポンピング法 (IABP)、インペラ補助循環用ポンプカテーテル (IMPELLA)、経皮的心肺補助装置 (PCPS)、ローターブレード、Shockwave
- 経皮の大動脈弁植込み術 (TAVI)、経皮の僧帽弁クリップ (MitraClip)、左心耳閉鎖 (Watchman)、経皮的卵円孔開閉閉鎖術、経皮の中隔心筋焼灼術 (PTSMA)
- 心内心電図 3D マッピング: EnSite, CARTO, RYTHMIA、心臓超音波検査装置(Vivid 7 他)、運動負荷装置、ABI 測定、3T-MRI、Fusion SPECT、臨床用ポリグラフ RMC5000 (ExTRa mapping システム)
- 血小板小凝集能測定、血液凝固・線溶動態解析、生体酸化ストレス解析、ELISA、血栓形成能測定(T-TAS)
- PCR 装置、SNPs 自動解析、遺伝子チップによる解析、遺伝子分離抽出機、定量的 RT-PCR
- タンパク解析、Western blot、免疫組織染色
- 頸動脈 IMT 測定、EndoPAT-2000、AI 測定血圧測定器、皮膚灌流圧測定装置 (SPP)
- 心筋細胞、血管内皮細胞、血管平滑筋、脂肪細胞、単球の各細胞培養系
- レーザードップラー血流計、手術装置、実験動物麻酔器、実験動物心電図モニター、実験動物圧計測カテーテルシステム (Miller カテーテル)
- 実体顕微鏡、蛍光顕微鏡、蛍光実体顕微鏡
- ラット、マウス、ウサギ動物飼育、血圧測定
- ランゲンドルフ灌流装置および心筋単離
- 低酸素培養用 CO2 インキュベーター
- マイクロ X 線 CT (工学部)

【英文論文】

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