

研究的種類

心血來潮的研究
東坡肉型的研究
斷頭型的研究
老鼠會型的研究
不可思議的研究

不可思静的研究

• Unskilled and Unaware of It: How Difficulties in Recognizing One's Own Incompetence Lead to Inflated Self-Assessments. / Personality and Social Psychology 1999;77:1121-34



 On the Comparative Palatability of Some Dry-Season Tadpoles from Costa Rica. Am Midland Naturalist 1971;86:101-9

不可思静的研究

Andre Geim and Sir Michael Berry: using Magnets to Levitate a Frog and a Sumo Wrestler

Of Flying Frogs and Levitrons. *Eur* J Physics 1997;18:307-13

不可思虑的研究

- Romantic Love may be Indistinguishable from Having Severe Obessive-Compulsive Disorder.
- Alteration of the Platelet Serotonin Transporter in Romantic Love. *Psychological Medicine* 1999;29:741-5

不可思虑的研究

 Reverend Sun Myung Moon: Bringing Efficiency and Steady Growth to the Mass-Marriage Industry



 PawSense: a Software that Detects When a Cat is Walking Across Your Computer Keyboard

不可思虑的研究

The Collapse of Toilets in Glasgow. Scottish Medical Journal 1993;38:185

不可思虑的研究

 Magnetic Resonance Imaging of Male and Female Genitals During Coitus and Female Sexual Arousal. *British Medical Journal 1999;319:1596-1600*

不可思虑的研究

◆結論是・・・

天下無難事,只怕有心人
 只要你肯幹,有什麼不可以







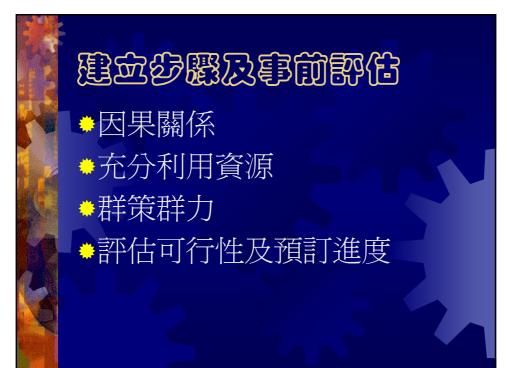




確立目標

◆與搜集資料相輔相成
◆目標包括
●研究類別
●論文定位
●其他





開始執行

◆分工合作:蟲蟲危機
◆監督制度:共同基金
◆溝通討論:井底之蛙
◆整合型計劃的特殊性

醫理貿別及分析計劃主持人的角色 整理與執行並行不悖 迴饋機制的必要

*統計分析的重要性

選窩論文

•媳婦熬成婆:勿得意忘形
●強龍不壓地頭蛇:遵守規定
●三分姿色,七分顏色
●外來的和尙會唸"洋"經
●撞球原則:快、狼、準
●鐵杆磨成繡花針

如何選寫論文

Robert A. Day: How to Write and Publish a Scientific Paper

- How to Prepare the Title?
- How to List the Authors?
- How to List the Address?
- How to Prepare the Abstract?
- How to Write the Introduction?
- How to Write the Materials and Methods Section?
- How to Write the Discussion?
- How to State the Acknowledgements?
- How to Cite the Literature?
- How to Design Effective Tables?
- How to Prepare Effective Illustrations?
- How to Type Manuscript?
- THE REVIEW PROCESS ...

不是现度••

- The lab test indicated abnormal lover function.
- The baby was delivered, the cord clamped and cut, and handed to the pediatrician, who breathed and cried immediately.
- Exam of genitalia reveals that he is circus sized.
- The skin was moist and dry.
- Rectal exam revealed a normal size thyroid.

不是现度•

- The patient had waffles for breakfast and anorexia for lunch.
- She stated that she had been constipated for most of her life until 1989 when she got a divorce.
- Between you and me, we ought to be able to get this lady pregnant.
- The patient was in his usual state of good health until his airplane ran out of gas and crashed.

不是玩笑•

- I saw your patient today, who is still under our car for physical therapy.
- The patient lives at home with his mother, father, and pet turtle, who is presently enrolled in day care three times a week.
- Bleeding started in the rectal area and continued all the way to Los Angeles.
- She is numb from her toes down.

不是现度•

- Exam of genitalia was completely negative except for the right foot.
- While in the emergency room, she was examined, X-rated and sent home.
- The patient was to have a bowel resection.
 However, he took a job as a stockbroker instead.
- The patient suffers from occasional, constant, infrequent headaches.







Ongoing Protocols

- Basic Research: Effects of Hypoxia on Cardiomyocyte Connexin 43 Expression
- Clinical Research:
 - Effects of Morphine on Neutral Endopeptidase 24.11 in Heart Failure
 - Doppler Patterns in Wide-QRS Tachycardia
 - Electromagnetic Effects of Xylophone on AED
- Disaster Research: Disaster Response Hospital and Personnel Registration (Or.Hope Registration)

Neutral Endopeptidase 24.11

- Membrane-bound zinc metalloprotease
- Hydrolysis of endogenous peptides
 - Atrial natriuretic peptide
 - Bradykinin
 - Substance P
 - Endothelins
 - Met-enkaphalin
- Wide distribution: Endothelium, Leukocytes, Epithelium etc.

Neutral Endopeptidase 24.11

Regulation: under investigation

- Leukocyte and Epithelium: decrease by phorbol ester
 - Transfected epithelium and Leukemia cells: increase in cell growth and after glucosteroids
- Vascular smooth muscle cells: increase NEP gene transcription and activity by steroids
- ALL cells: casein kinase II

Neutral Endopeptidase 24.11

Glucocorticoid induce neutral endopeptidase in transformed human tracheal epithelial cells

Borson DB. Am J Physiol 1991

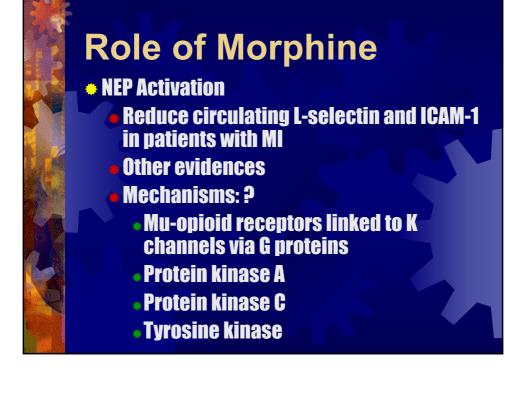


Neutral Endopeptidase 24.11

CD10(CALLA)/NEP modulates inflammatory peptideinduced changes in neutrophil morphology, migration, and adhesion proteins and is itself regulated by neutrophil activation

Shipp MA. Blood 1991





Morphine on NEP

 Hypothesis: Morphine acts on endothelium and WBC to activate their membrane bound Neutral Endopeptidase 24.11 (NEP) and then degrades vasoactive peptides such as Endothelin-1 (ET-1)

Past Study-1

- To investigate the effects of morphine on neutrophil and endothelial activation
- Subjects: 38 patients with AMI
- Blood sampling: for measurements of
 ICAM-1
 - L-selectin
 - NEP

Past Study-1	
ONA	Group 1A (N=20)
1st morphine 2nd	Group 1B (N=18)
1st 2nd morphine	Control (N=16)
1st [¶] morphine 2nd	

Past Study-1

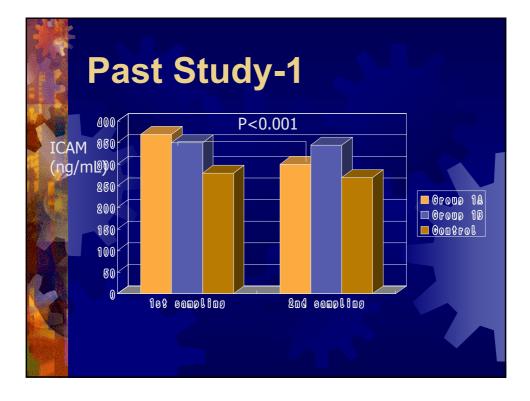
- Neutrophil preparation: heparinized; gradient centrifugation
- Measurement of ICAM-1 and L-selectin: commercial ELISA kits
- Enzymatic Assays of NEP: Fluorimetric assay (425 nm) using glutaryl-ala-alaphe-4-methoxy-2-nathylamine as substrate

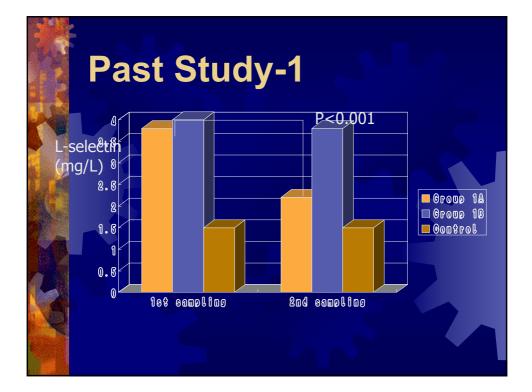
Past Study-1

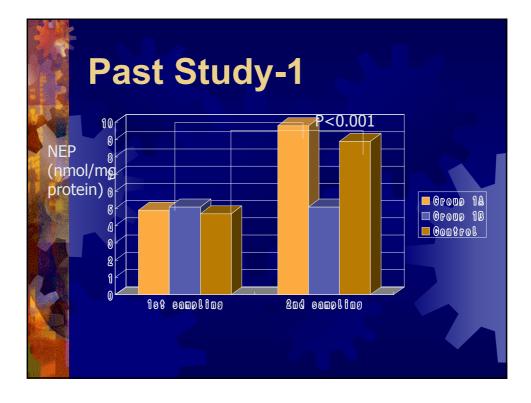
	Group 1A	Group 1B	Control
Age (yr)	62 <u>+</u> 15	64 <u>+</u> 16	<u>60+</u> 17
Male (%)	14(70%)	13(73%)	10(63%)
HTN	12	9	9
DM	3	3	2
Smoking	9	8	1
Hyperlipid.	3	4	3

Past Study-1

100				
		Group 1A	Group 1B	Control
	Hb (g/dL)	13.5 <u>+</u> 1.4	13.3 <u>+</u> 1.4	13.6<u>+</u>1.7
	WBC (10 ³)	10.8<u>+</u>3.0	10.0 <u>+</u> 2.3	6.8<u>+</u>1.0
0	Neutro. (%)	67 <u>+</u> 9	68 <u>+</u> 10	65 <u>+</u> 10
2	Mono. (%)	7.6 <u>+</u> 2.8	7.2 <u>+</u> 2.6	7.9 <u>+</u> 3.0
	Plat. (10 3)	286<u>+</u>94	249 <u>+</u> 86	263 <u>+</u> 78







Morphine on NEP

+ CHF

Group 1: oxygen, NTG, furosemide and blood sampling $1 \rightarrow$ morphine \rightarrow 10 min \rightarrow blood sampling 2

Group 2: oxygen, NTG, furosemide and blood sampling 1 \rightarrow 10min \rightarrow blood sampling \rightarrow morphine

Control

Treat as Group 1 and Group 2

Morphine on NEP

- Leukocyte Separation: Gradient Centrifugation
- NEP quantification: DAGNPG as substrate and estimation by spectrofluorometry (342 nm vs. 562 nm)
- ET-1 quantification: double antibody sandwich ELISA method

Doppler on WQT

Hypothesis: Doppler flow pattern of pulmonary vein can demonstrate A-V dissociation of ventricular tachycardia among those with wide-QRS tachycardia

Doppler on WQT

Favor VT:
AV dissociation
Fusion beat
Capture beat
Absence of RS in any precordial leads
Onset of R to Nadir of S longer than 100 msec
Morphologic Criteria

Doppler on WQT

Favor VT: (RBBB morphology)
 V1-2: monophasic or biphasic

 V6: Q wave, R-to-S ratio<1, QS, QR or monophasic R

Favor VT: (LBBB morphology)

 V1-2: R duration > 30 msec; duration from onset of R to nadir of S > 60 msec; notching in downsloping of S
 V6: QR or QS

Xylophone on AED

 Hypothesis: Electromagnetic effects of xylophone may interfere the readings of monitors on AED and thus result in inadequate management

稳即事項

◆人道精神◆鼠道精神◆勿落人口實

