HA CONVENTION 2010

PILOT STUDY OF TIGHT CONTROL EARLY RHEUMATOID ARTHRITIS CLINIC

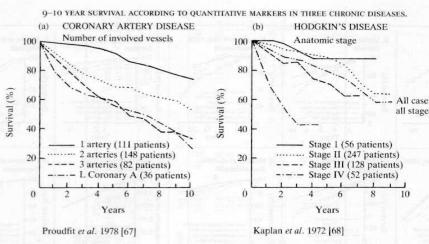


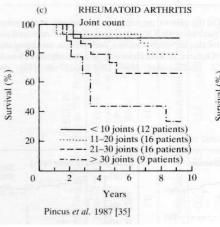
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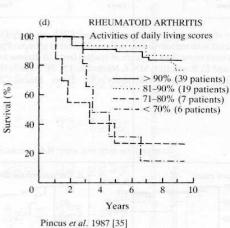
BACKGROUND

Active rheumatoid arthritis (RA) can be crippling; mortality approaches lymphoma if left untreated









BREAKTHROUGH IN MANAGING ACTIVE RA

Biologic agents

- Targeted on key cytokines in RA inflammation
- In RCT, successful in long-standing and early RA
- © Cost ~ HK\$ 10,000 per month, indefinite use

2. Tight control

- © Early, aggressive and objective goal directed treatment
- Prevent RA from progressing to a stage that is only salvageable by expensive biologics
- Most desirable approach from public health perspectives

MEASURING RA

Joint pain + Joint pain +++ © ACR

ESR 25 mm/hr ESR 50 mm/hr



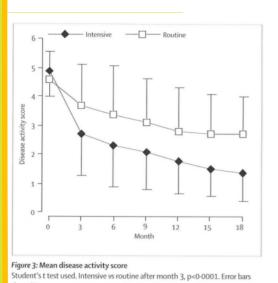
DAS Activity >5.1 High 3.2-5.1 Moderate <3.2 Low

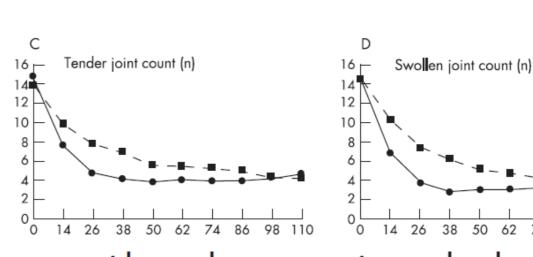
MEASURING RA OBJECTIVELY

- © Clinically important parameters:
 - Tender joint count TJC (out of 28)
 - Swollen joint count SJC (out of 28)
 - Patient global assessment (by VAS)
 - Blood test inflammatory marker (ESR)
- Lump sum: Disease activity score
- **DAS** = 0.56 * $\sqrt{\text{(TJC)}}$ +0.28 * $\sqrt{\text{(SJC)}}$ +0.70 * In (ESR) + 0.014 * (VAS)

STUDIES ON RA TIGHT CONTROL

Effect of a treatment strategy of tight control for rheumatoid arthritis (the TICORA study): a single-blind randomised controlled trial Lancet 2004; 364: 263-69





Intensive treatment with methotrexate in early rheumatoid arthritis: aiming for remission. Computer Assisted Management in Early Rheumatoid Arthritis (CAMERA, an open-label strategy trial) Ann Rheum Dis 2007;66:1443-1449.

PARTICULAR HURDLES IN HK

Therapeutic nihilism – patient misconceptions

- ⊙ 乜西醫都有風濕咩?
- ⊙ 風濕有得醫咩?
- ⊙ 算啦,得過且過嘛,邊有得搞架!

Fear of drug side effects – patients & doctors

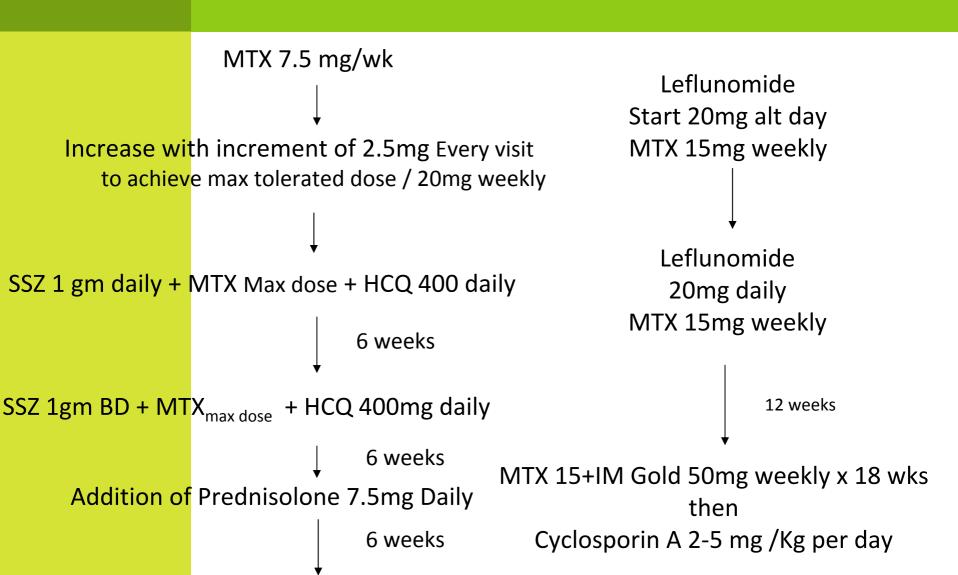
- 果的風濕藥好毒喎!
- 係唔係又用類固醇?



TIGHT CONTROL RA CLINIC

- Since 2003, DAS has been prospectively entered into CMS notes in rheumatology clinics
- Tight control early RA clinic has been set up since Oct 2008
 - RA onset within 2 years
 - Goal directed aim at DAS < 3.2
 - Tight control, close adjustment of drugs
 - Protocolised disease modifying agents escalation
 - Rheumatology nurse counselling & OT assessment

DMARD USE PROTOCOL



METHODOLOGY OF STUDY

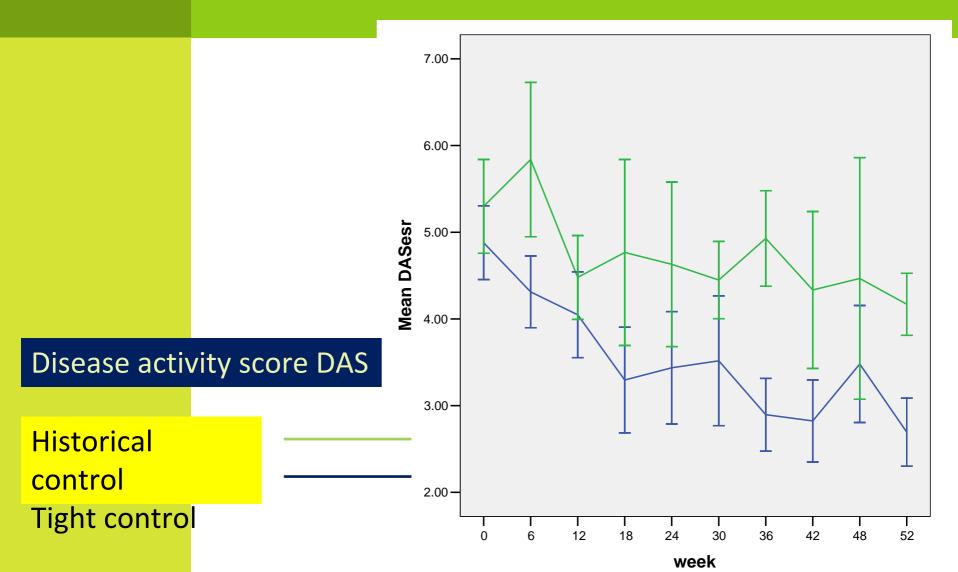
- All early RA patients are channelled to Tight control RA clinic after Oct 2008
 - Ample of evidence in literature that tight control improves outcomes
- Tight control RA clinic data is prospectively collected
- © Compared with "historical controls" in general rheumatology clinic before Oct 2008
- 1:1 case-control matching

RESULTS

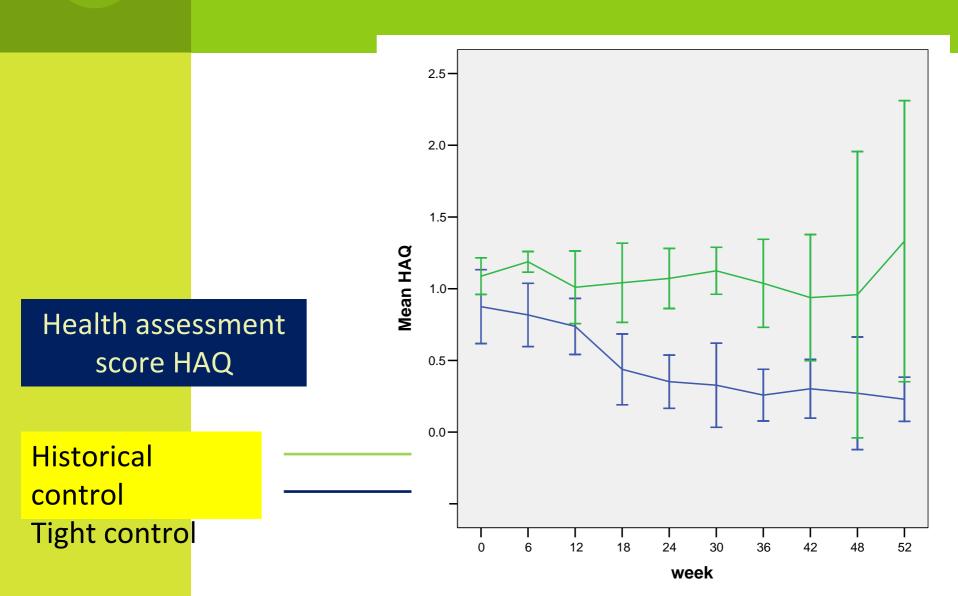
- From Oct 2008 Oct 2009
 - 20 patients treated in Tight control early RA clinic
 - RA activities were brought to better control

Median DAS	Baseline	Week 36	Week 52
Tight Control Clinic	5.2	2.9	2.7
Historical control	4.9	4.9	4.2
Mann-Whitney U test p value	0.90	<0.001	<0.001

DAMPING DOWN INFLAMMATION



PATIENT FUNCTIONING



FREQUENCY OF FOLLOW-UP

- On average Tight control clinic RA patients were followed up around every 4 weeks
- In contrast to 12 weeks for historical controls

PILOT STUDY -FEASIBILITIES TESTING

Potent drug vs Mode of care delivery

- Tight control of early RA is feasible
 - Adapted local version
- Objective measurement
- Management driven by explicit objective goal
- Focus of resources (rheumatology nurses, therapists etc) worthwhile

LIMITATIONS OF STUDY

- Sample size = 20 early RA in 1 year
 - Chronic disabling disease
 - snowballing clinic load
- © Case-control methodology:
 - Tight control clinic prospective data collection
 - Historical control retrospective data
- Particular co-morbidities in Hong Kong that aggressive drug use might be hazardous
 - Hepatitis B carrier, past tuberculosis history

FUTURE RESEARCH

- Further research questions:
 - Comparing total drug/blood testing/clinic attendance cost
 - Cost saving against potential use of expensive biologic agents
 - Gain in function translated to more social participation and workability

KEY MESSAGE

- Tight Control Clinic serves to bring down RA activities faster and better, but with more frequent follow-up and monitoring
- It is worthwhile to invest resources in early RA to lessen the burden of future morbidities and mortality



THANK YOU VERY MUCH!

