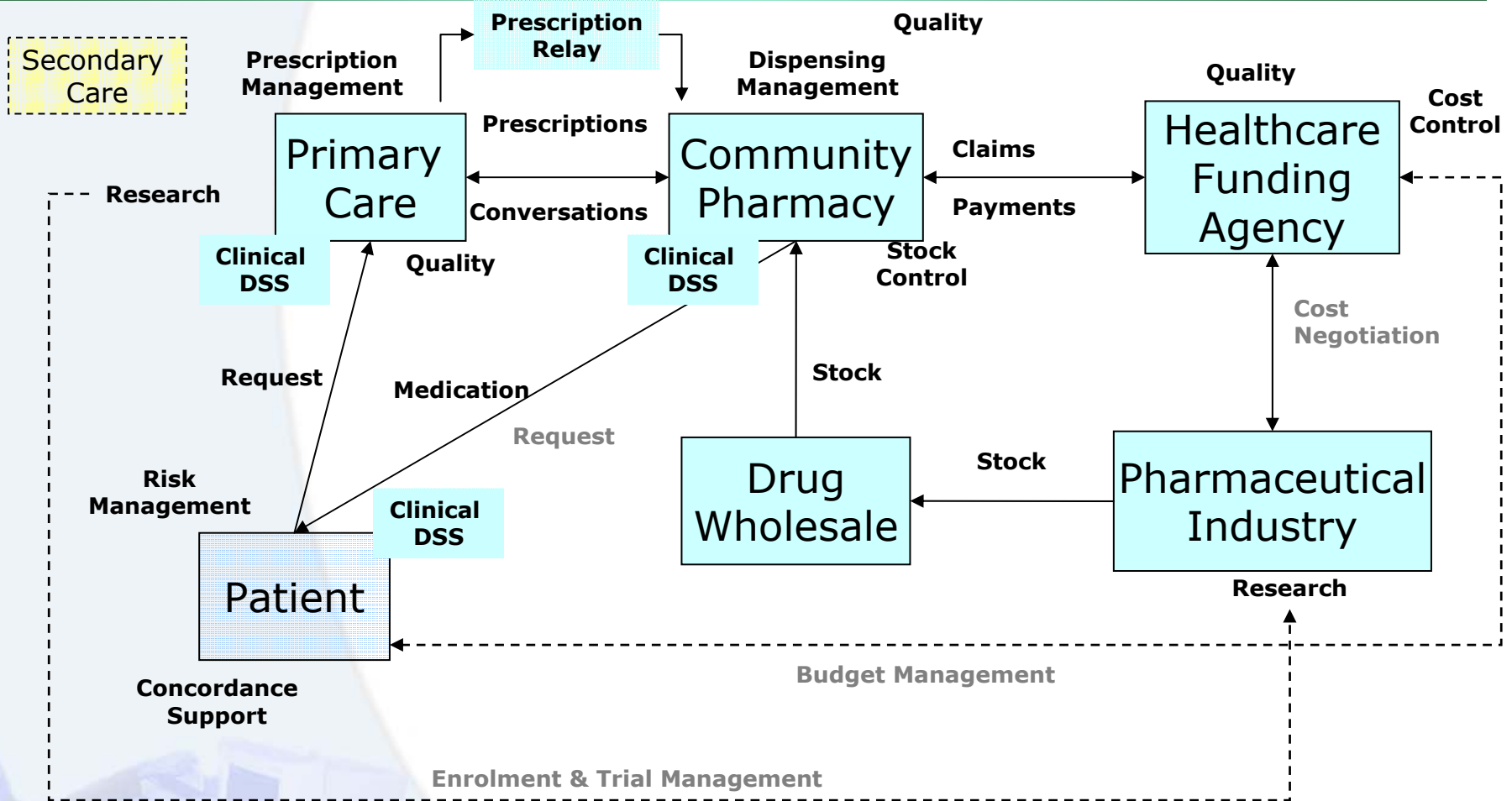

ePrescribing in Europe

Strategies and Implementations –
What has been achieved?

Prof Ian Purves



ePrescribing Overview



Cost & Benefits

- Cost of providing & maintaining ePrescribing system
- Patient convenience and flexibility
- False positives of Alert systems
- Commercial sensitivity of ETP 'relay' data
- Patient Privacy
- Access to prescribing record and readability
- Alerts to prescribing potential errors
- Repeat prescribing review
- Patient convenience and flexibility
- Empowerment to patient
- Reduction of 'clarification' phone calls Pharm ⇔ GP
- Prescription processing & reimbursement
- Supply chain more adaptable to change
- eTrial
- Change agent for Health Informatics agenda (culture and IT infrastructure)

European Perspective

- Denmark – On average 70% prescriptions sent by ETP, whole supply chain management
- Sweden – On average 25% by ETP
- UK – Nearly all prescriptions produced by computer, ETP pilot finished awaiting implementation, strong decision support pilots, NPfIT
- Norway – Starting ETP pilot and considering decision support
- Germany, Finland and Spain – in planning phases

Denmark

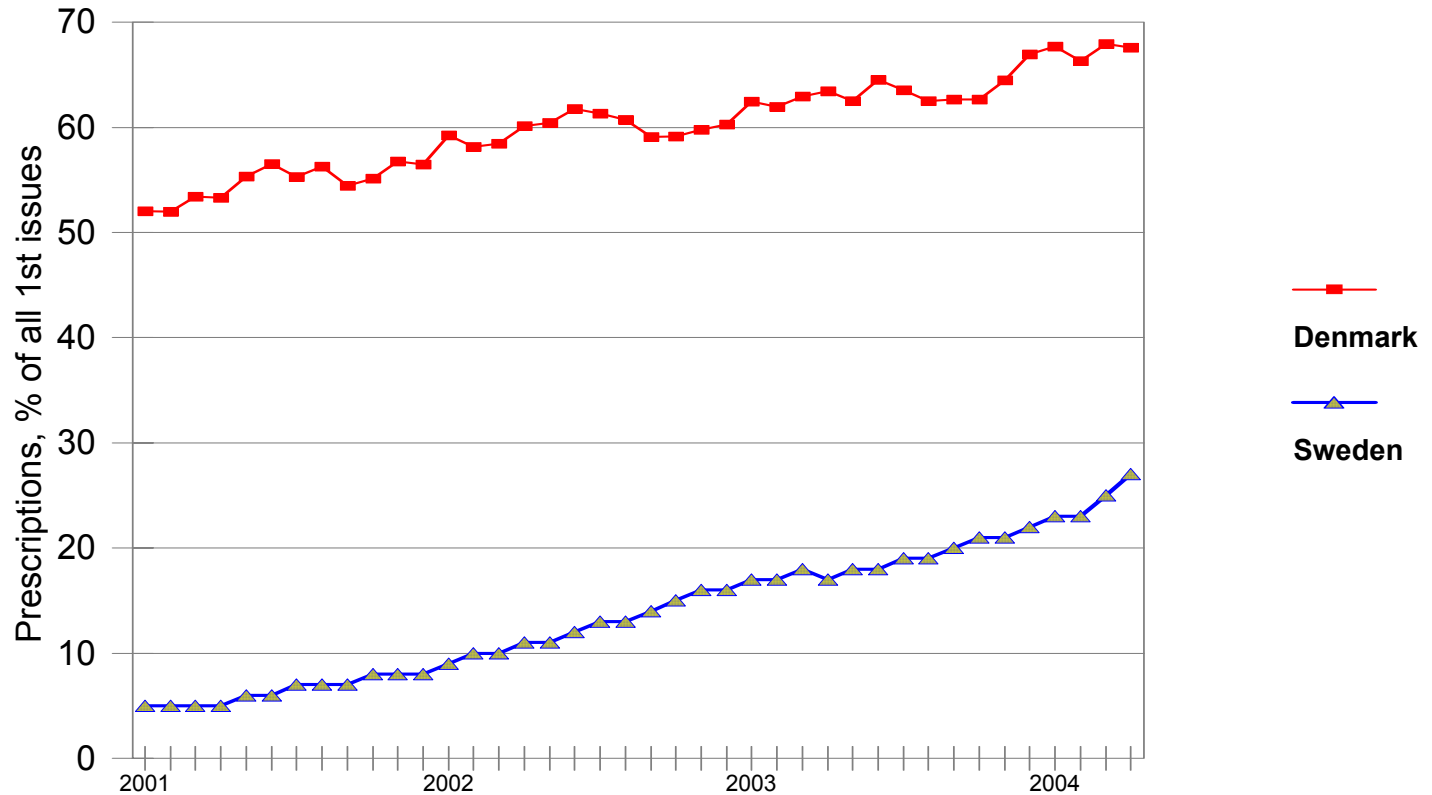
- Nearly all prescriptions produced by computer
- Faelles Data Grundlag (Common Data Foundation)
- ETP
 - Ave 70% but reduced by Copenhagen (? need for relay)
 - Patient pays for ETP but not paper!
 - Wholesale changes in reimbursement and patient empowerment
 - Took 10 years ... linked to other initiatives

<http://www.medcom.dk/>

ETP

Uptake

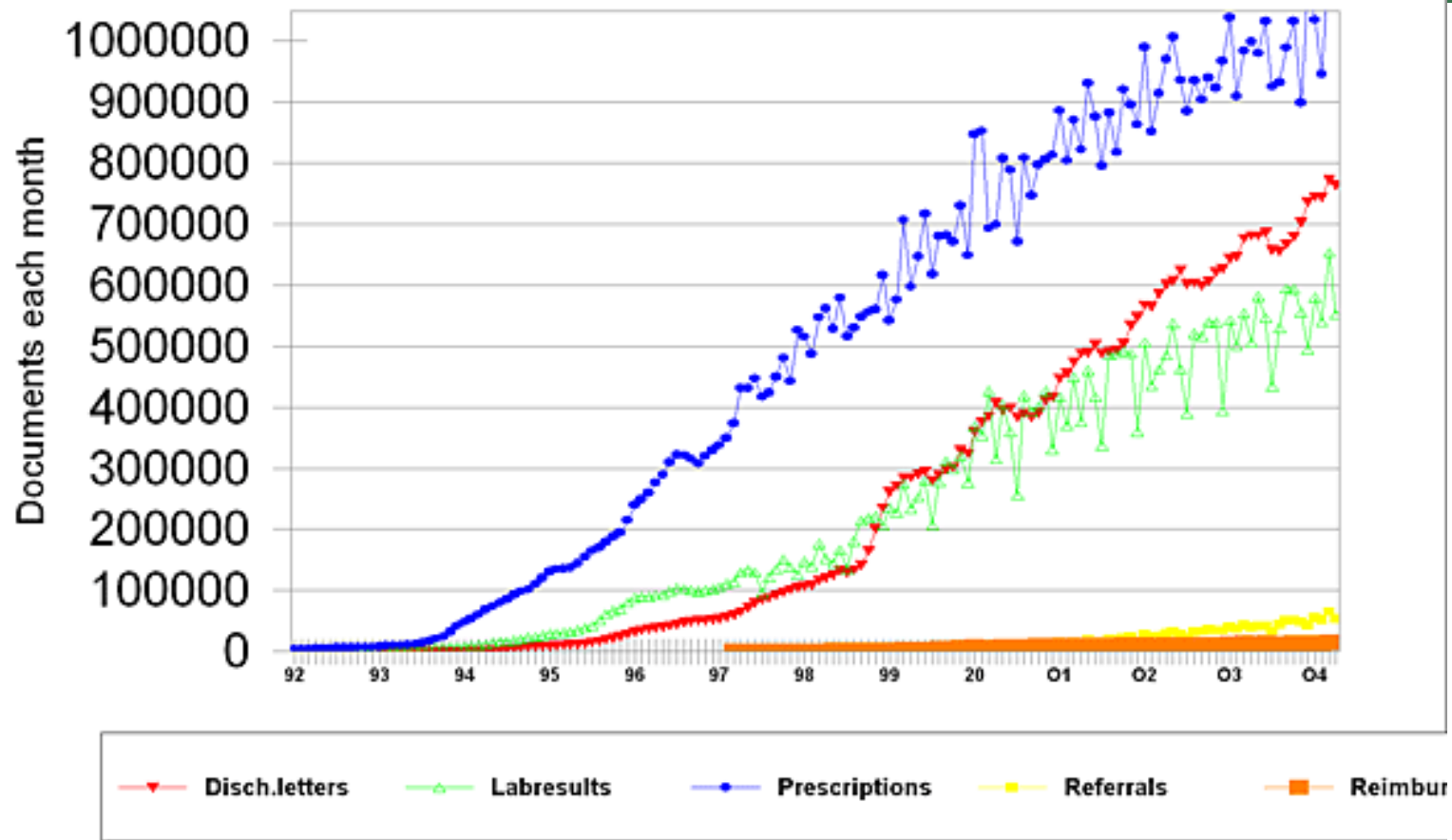
Denmark Sweden
Prescriptions each Month



<http://www.medcom.dk/>

MedCom -The Danish Health Data Network

Messages/Month



England

- Nearly all prescriptions produced by computer
- New drug dictionary NHS DM+D
- New drug decision support (iDrug)
- PRODIGY
- ETP: Three pilots, 100,000 messages, ended Sept 2003, awaiting implementation NPfit

<http://www.schin.ncl.ac.uk/ETP/>

<http://www.prodigy.nhs.uk>

<http://www.i4u.co.uk>

Type “npfit” into google

Needs

- Mandated technical standards – drug reference file, messaging standards, EHR standards, legacy migration
- IT Infrastructure
- User friendly systems
- Decision support
 - ✓ Drug knowledge base for alerts and reminders
 - ✓ Guidance on use of drugs
- Linked IT initiatives, iterative testing and regional support services
- Financial incentives (at least not perverse disincentives)
- Technical integration of clinical activity and supply chain
- Culture



Building bridges
to health
informatic
futures



4u

www.schin.ncl.ac.uk
www.i4u.co.uk

NHS National Programme for IT

NPfIT

- NHS has created 10 year programme
- Passed management and risk into 6 companies ... all sub-contracting through these
- Direction through NHS Design Authority
- Central Spine (~£850m)
- 5 Regions (~£1.3b each)
- Two key software vendors: iSoft (3) and IDX (2)
- Centralised data repositories

NHS National Programme for IT

NPfIT

- Rigorous standardisation
 - ✓ HL7
 - ✓ NHS DM+D and Snomed CT
- Separation of drug facts and drug knowledge for Decision Support
- Address legacy strategically
- Secondary care big challenge only 10 hospitals undertaking ePrescribing