

**An Electronic Care Record System for  
Dementia that manages Clinical Research  
developed by Clinicians for Clinicians.**

12<sup>th</sup> April 2016

# AN ELECTRONIC CARE RECORD FOR DEMENTIA



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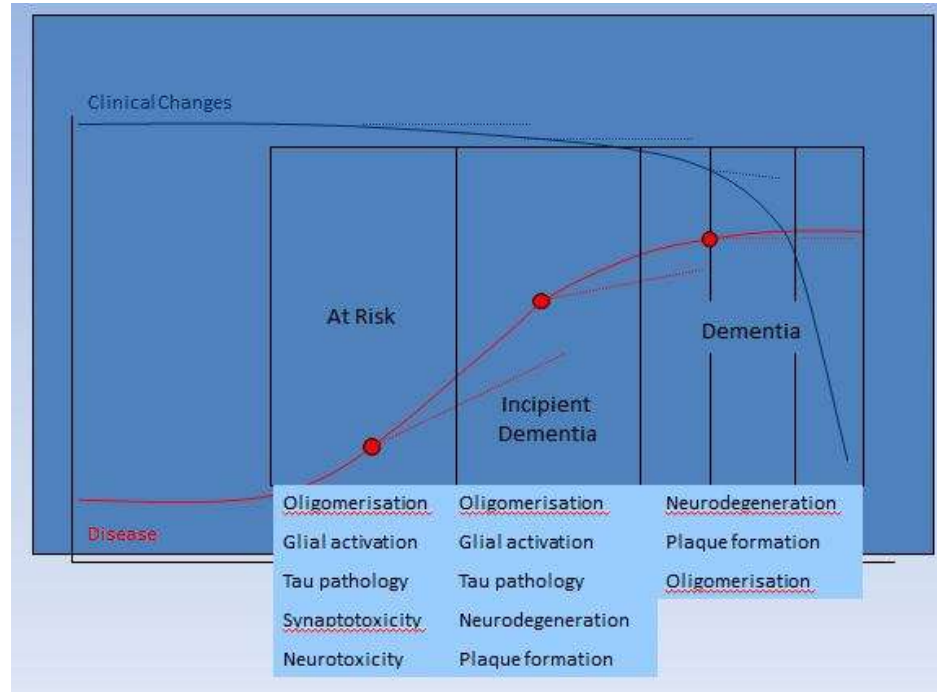
# AN ELECTRONIC CARE RECORD FOR DEMENTIA

- Dementia affects 700,000 in UK
- Predicted to double by 2037, tripling cost
- 1 in 3 over the age of 65 will develop dementia; by 2050, over 680 million new cases worldwide
- In the UK poor mental health costs £100b/year

## Need To Transform Medicine in the 21<sup>st</sup> Century

| 20th Century   | 21st Century  |
|--|---|
| Treat disease when symptoms appear and normal function is lost             | Intervene before symptoms appear and preserve normal function for as long as possible |
| We did not understand the molecular and cellular events leading to disease | Understanding of preclinical molecular events and ability to detect patients at risk  |
| Expensive in financial and disability costs                                | Orders of magnitude more effective  |

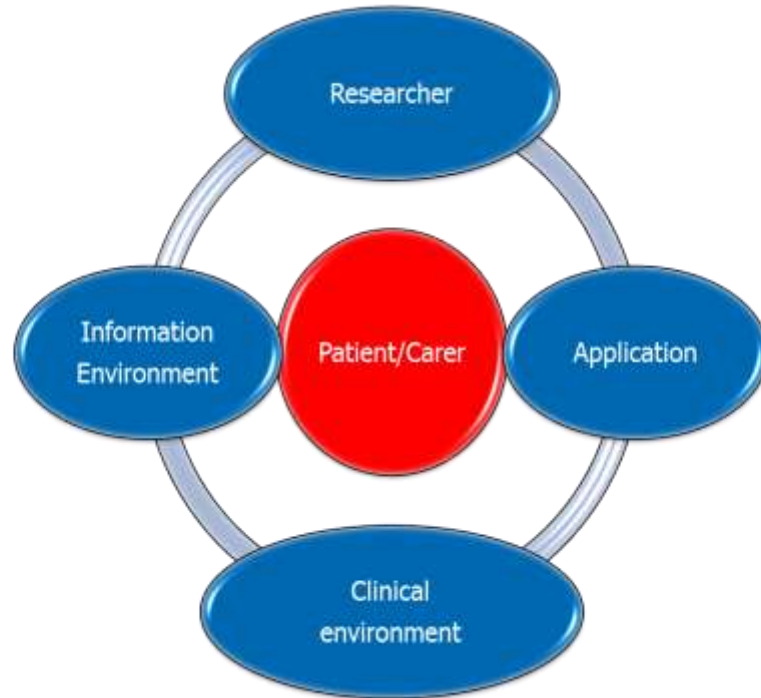
# AN ELECTRONIC CARE RECORD FOR DEMENTIA



# 'DEMREG' – PRECURSOR TO CONCERT-D

- System to gain **consent to consent for dementia research**
- Started in 2009 with North Thames Dementia and Neurodegenerative Research Network (DeNDRoN) support
- = a **registry of studies** to which the patient has been invited, is deciding about, has consented to or is participating in
- Enables appropriate **matching of registry members** to research projects
- Manages **all data securely** with **audit** log
- Leads to more efficient conversations about research
- Breaks down fear of research
- **Helps integrate research 'culture' into clinical practice**

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# WHAT IS CONCERT-D™?

- = 'CONsent to Consent for Research and Trials in Dementia'
- Developed over several years within a clinical service (WLMHT) by doctors, patients and carers, because existing systems not connected to clinical systems
- Integrates with electronic clinical record systems so embeds into clinical practice
- Provides a registry of people, grouped together on the basis of their clinical conditions, allowing for efficient and appropriate identification of suitable research subjects

# How Does CONCERT-D WORK?

- Designed and developed with 6PM for **Research Management and Patient Recruitment** for local and national projects
- Patients and carers who have consented and are willing to be approached will have their **clinical data drawn** into ConCERT-D, allowing them to be approached for **specific, tailored research studies**
- ConCERT-D is designed to **manage** dementia research by **easily identifying** patients and carers who have provided consent for inclusion in research



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"Linking people with dementia with high quality research has historically been very problematic. Registering an individual's interest has proved very effective in earlier pilot work with DemReg but the new ConCERT-D system will allow us to embed the register fully in clinical practice as it acts as both a Research Register and an Electronic Patient Record. This will allow even more people to gain access to the high quality dementia research we undertake."

**DR CRAIG RITCHIE,**

Honorary Consultant and R&D Director, WLMHT  
Senior Lecturer, Imperial College London



# BENEFITS OF CONCERT-D TO STAFF

- **Holistic interface** allows for **better clinical practice**
- **Integrated** with and supplemental to electronic patient record system
- Provides alerts for local **research** studies and allows for **easy identification** of suitable research participants
- Aids **audit** and clinical **governance**
- Allows easy **clinical notifications** e.g. drugs
- **All staff** can enter data and fields e.g. test scores, medication
- **Adaptable** to other disease areas
- **Clinical staff** see the benefit of research
- **iPad based**

# BENEFITS OF CONCERT-D TO PATIENTS

- More **face-to-face** contact with **better informed** clinicians
- **Increased likelihood of being offered research** options - WLMHT has 685 patients and 387 carers consented and ConCERT-D provides 40-50% of study participants
- Improved cross-agency working → **better integrated care**

# POTENTIAL DIFFICULTIES OF USING CONCERT-D

- Maybe perceived as a **duplication of main EPR**
- Does **not search free text** from existing EPR
- **Governance can be a problem** - if trusts are reluctant to have several systems that work independently from each other

# BUSINESS CASE FOR CONCERT-D

- **Improved quality and effectiveness of clinical consultations**
  - This is especially relevant to more complex cases ?↑ capacity by 20%
- **Improved communication between clinicians**
- **Automatic production of letters**
  - Contrast with medical and admin time to dictate and check letters
- **Automatic production of MSNAP reports**
  - Reducing time required for the data entry
- **Improved quality and effectiveness of screening for potential research participants**
  - Finding consented patients with a specific diagnosis is literally a matter of seconds, thanks to exportable reports
- **Minimal training required**
  - intuitive and user friendly
- **6PM are responsive to business needs**

# AN ELECTRONIC CARE RECORD FOR DEMENTIA



# AN ELECTRONIC CARE RECORD FOR DEMENTIA



**ConCERT-D** Patient Register Clinical (Clinical) - newwindow Home Login

Search Patient Patient Assessments Medication NICE Board

Welcome



**National Board** [View Profile](#)

**Dementia Challenge**

02 April 2014 14:00

There are nearly 700,000 people with dementia in the UK, and the disease costs the economy £23 billion a year. By 2040, the number of people affected is expected to double - and the costs are likely to rise.

The National Dementia Strategy, published in 2006, set some standards for dementia care. Since then, treatment using anti-cholinergic drugs - which can have major side effects - has become the first treatment.

The Prime Minister's Dementia Challenge launched in March 2012 sets out plans to go further and faster in improving dementia care, focusing on raising diagnosis rates and improving the skills and awareness needed to support people with dementia - and their carers. It also has details of plans to improve dementia research. A lot can be done to help people cope with the symptoms.

**Prime Minister's challenge on dementia**  
Delivering major improvements in dementia care and research by 2016



# AN ELECTRONIC CARE RECORD FOR DEMENTIA

The screenshot shows the ConCERT-D web application interface. At the top, there is a header with the logo 'ConCERT-D' and the text 'West London Mental Health NHS Trust'. Below the header, there are navigation links for 'Home' and 'Logout'. The main content area is titled 'Search Patient' and contains several search criteria fields: 'NHS Number', 'External Ref', 'First Name', 'Last Name', 'Date Of Birth', 'NHS Number', 'Care Pathway', 'Borough', and 'Service'. There are also checkboxes for 'Only Concerning Patients' and 'Discharged'/'Deceased'. A 'Search' button is located at the bottom right of the search criteria. Below the search criteria, there is a table with columns for 'NHS', 'External Ref', 'Full Name', 'Date Of Birth', 'NHS Number', 'Care Pathway', and 'Borough'. The table currently displays 'No patients found'. At the bottom of the page, there are logos for '6PM GROUP' and 'West London Mental Health NHS Trust'.



# AN ELECTRONIC CARE RECORD FOR DEMENTIA

**ConCERT-D** Patient Register: Overview [Details] - Home

Ref: 28815 Est. Ref: Patient: Mr John Bell NHS Number: 077 676 5470 Dashboard Clear

Search Patient Patients Assessments Medication Notice Board

### Patient > Dashboard

|   |                              |                                      |  |   |                             |
|---|------------------------------|--------------------------------------|--|---|-----------------------------|
| <b>Main Details</b>                         | <b>MRN Main Details</b>      | <b>Contact Details</b>               | <b>MRN Contact Details</b>             | <b>Register Details</b>                     | <b>MRN Register Details</b> |
| Date of Birth: 11/08/1917                   | Female                       | Address: 55 Heathrow Avenue, Feltham | Postcode: TW10 5PT                     | Residing Status: Living independently alone | Referral Date: 11/12/2012   |
| Marital Status: Widowed/Divorced Civil P... | Birth                        | Phone Number: 0208 896 7788          | Contact Method: Telephone              | Date of Death:                              | Fluor Vaccination: Yes      |
| Stability: Homeless                         | Postcode: TW10 5PT           | Contact Person: Friend/Neivity       | Consented?                             | Discharge Date:                             | Mental Status Act:          |
| Care Pathway: C/D                           | Email:                       |                                      |  |   |                             |
| Fluent in English? Yes                      |                              |                                      |  |   |                             |
| <b>Care</b>                                 | <b>MRN Care Details</b>      | <b>Consultant &amp; GP</b>           | <b>MRN Consultant &amp; GP Details</b> | <b>Services</b>                             | <b>MRN Service Details</b>  |
| Current Care:                               | Consultant: Dr. John Brindon | Current Service: Community           |  |   |                             |
| Consenting Care:                            | GP:                          |                                      |  |   |                             |

**Current Diagnosis** MRN Diagnosis

| Date       | Diagnosis                                       | Research Diagnosis Date | Research Diagnosis            | External Source |
|------------|---|-------------------------|-------------------------------|-----------------|
| 11/02/2013 | Dementia in Alzheimer's Disease with late onset | 01/12/2012              | Possible Alzheimer's dementia | No              |

**Current Medication** MRN Medication

| Date             | Medication  | Therapeutic Class    | Dose      | Regular/PRN | ACB Score |
|------------------|-------------|----------------------|-----------|-------------|-----------|
| 01/06/2013       | Omeprazole  | ACE Inhibitor        | 20mg      | 1 x 5mg     | 0         |
| 11/12/2012       | Atenolol    | Cardiovascular agent | 5 x 100mg |             | 1         |
| 11/12/2012       | Paracetamol | Cardiovascular agent | 1 x 50mg  |             | 1         |
| Total ACB Score: |             |                      |           |             | 2         |

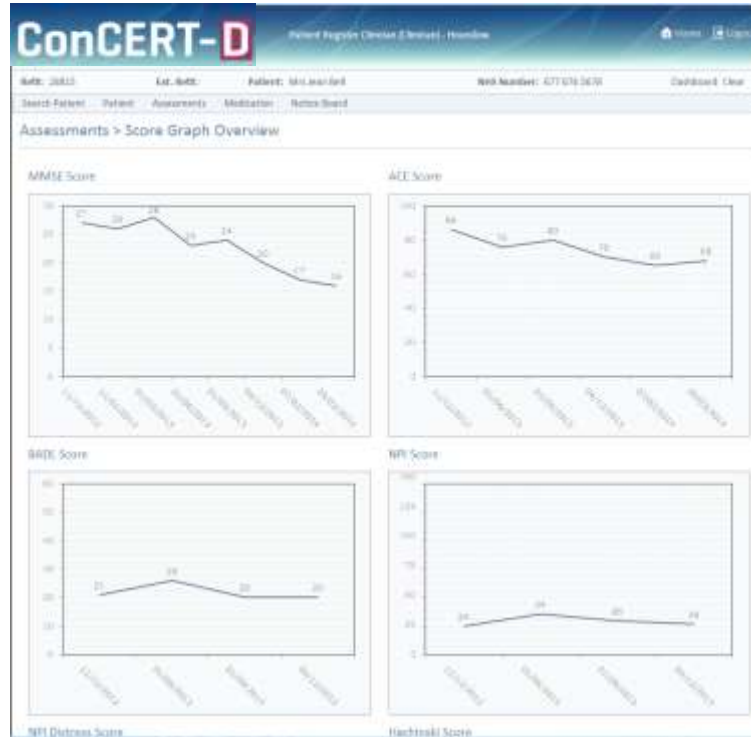
**Current Side Effects** MRN Side Effects

| Date                   | Therapeutic Class | Reaction | Side Effects |
|------------------------|-------------------|----------|--------------|
| No side effects found! |                   |          |              |

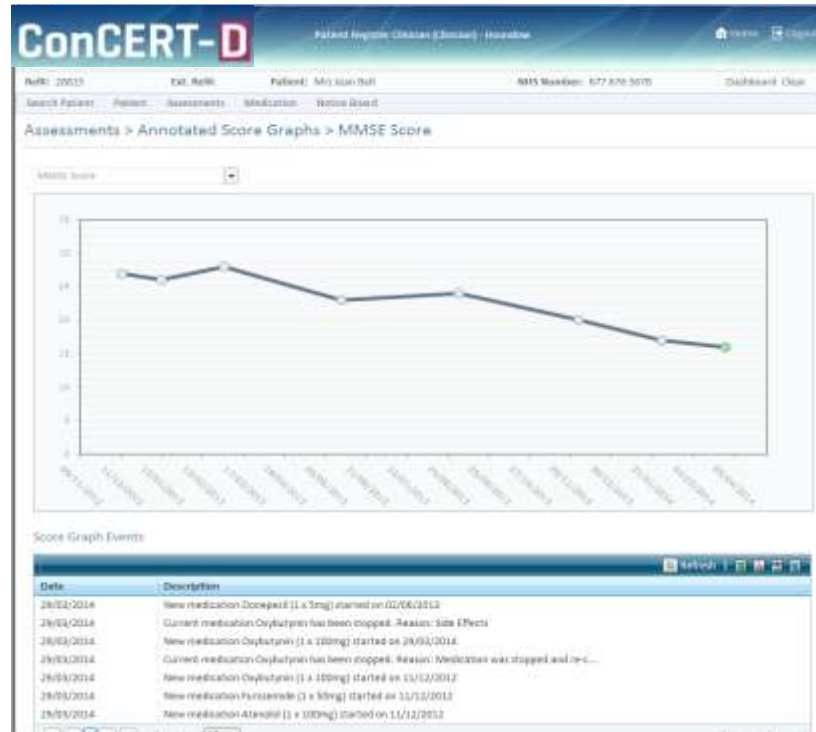
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The screenshot displays the ConCERT-D web application interface. At the top, the title 'ConCERT-D' is prominent, with a subtitle 'Virtual Reg/Med Clinical Decision - Monitor'. Below this, patient information is shown: 'Ref: 2013', 'Ext. Ref: ', 'Patient: Mrs Jane Hill', and 'NHS Number: 677 876 5078'. A navigation bar includes 'Search/Print', 'Filter', 'Assessments', 'Validation', and 'Data Search', along with a 'Save Check' button.

The main section is titled 'Medication > Current Medications'. It features an 'Add Medication' button and a 'Refresh' button. A table lists the current medications:

| Medication        | Therapeutic Class                 | Dose     | Start Date | Stop Date  | Regular/PEN | ACB Score            | Actions                   |
|-------------------|-----------------------------------|----------|------------|------------|-------------|----------------------|---------------------------|
| <b>Current</b>    |                                   |          |            |            |             |                      |                           |
| Dompect           | Food for special medical purposes | 1 x 5mg  | 01/06/2013 |            |             | 0                    | Stop & re-create          |
| Arasitol          | Cardiovascular agent              | 1 x 50mg | 11/12/2012 |            |             | 1                    | Stop & re-create          |
| Forxivo           | Cardiovascular agent              | 1 x 50mg |            |            |             | 1                    | Stop & re-create          |
|                   |                                   |          |            |            |             | <b>ACB Inhibitor</b> | <b>Total ACB Score: 2</b> |
| <b>Stopped</b>    |                                   |          |            |            |             |                      |                           |
| <b>Depression</b> |                                   |          |            |            |             |                      |                           |
| Chalyton          | Primary Antidepressant            | 1 x 50mg | 11/12/2012 | 11/01/2013 |             | 0                    |                           |

Below the table, there are two summary rows:

|                                      |     |                                       |     |
|--------------------------------------|-----|---------------------------------------|-----|
| BMF Maximum % for all Antipsychotics | N/A | BMF Maximum % for all Antidepressants | N/A |
|--------------------------------------|-----|---------------------------------------|-----|

The footer includes the '6PM GROUP' logo, 'West London Mental Health NHS Trust' logo, and the NHS logo.

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The screenshot displays the ConCERT-D web application interface. At the top, the title 'ConCERT-D' is prominent, followed by the subtitle 'Patient Register Overview (Clickand) - HomeView'. The header includes navigation links for 'Home' and 'Logout'. Below this, a patient information bar shows fields for 'PacId: 10013', 'Ext.Nbr: ', 'Patient: Mr. Ivan Bell', and 'NHS Number: 017 016 30 05', along with a 'Dashboard' link and a 'Clear' button.

A secondary navigation bar contains 'Search Patient', 'Patient', 'Assessments', 'Medication', and 'Notes Board', with a 'Split View' button on the right. The main content area is titled 'Patient > Research Participation'. A blue banner with an information icon and the text 'Please note that current patient has not consented yet.' is displayed. Below this is a table with columns: 'Date', 'Research', 'Role', 'Approached', 'Status', and 'Description'. The table content is empty, with the text 'No research participation records found!' centered. A pagination bar at the bottom of the table shows 'Page: 1 of 1' and 'Agree: 50'.

At the bottom of the page, the '6PM GROUP' logo is on the left, and 'West London Mental Health NHS Trust' is on the right, with the NHS logo.

# AN ELECTRONIC CARE RECORD FOR DEMENTIA

## Key Benefits & Financial Drivers:

-  Provides a registry of patients and carers who are suitable for a study and have given consent to participate in research.
-  Stores clinical details of all patients assigned to the Cognitive Impairment and Dementia care Pathway.
-  A clinical database system which supports clinical practice, audit and service planning.
-  Provides capability for in-depth patient searching for research, audit and clinical practice.
-  Provides infrastructure to link selected patients into well-designed and highly organised clinical studies.
-  Facilitates identification and recruitment of appropriate / suitable patients for clinical research.
-  Supports the process of inviting patients and carers to join a research registry, providing a platform to record their research preferences and activity.
-  Provide a clinical database system to complement RIO, to facilitate clinical activity and audit / service planning / pharmacy monitoring etc.
-  Holds a minimum dataset of information assigned to the Cognitive Impairment and Dementia Care Pathway.
-  Holds information about contributors' consent to the research registry, to enable appropriate matching of registry members to research projects.
-  Supports very accurate feasibility for both the commercial and non-commercial sector for new trials.

# LET US DEMONSTRATE HOW CONCERT-D CAN ADD VALUE

**Please contact us to find out more and  
for a product demonstration.**

**E: [info@6pmsolutions.com](mailto:info@6pmsolutions.com)**





[www.6pmsolutions.com](http://www.6pmsolutions.com)



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