

Access from the NHS to University teaching & learning

Andrew Howe & Natalie Lafferty
College of Medicine, Dentistry & Nursing



**THE TIMES
THEY ARE
A-CHANGIN'
BOB
DYLAN**

THE LONESOME DEATH OF MATTIE CARROLL
BOOTS OF SPANISH LEATHER
RESTLESS FAREWELL / WITH GOD ON OUR SIDE
THE TIMES THEY ARE A-CHANGIN'
ONLY A PAIN IN THEIR GAME
WHEN THE SUN COMES IN / ONE FOR MANY MORNINGS
BALLAD OF HOLLIS BROWN / NORTH COUNTRY BLUES





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Stanford give all medical students an iPad



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Thursday, 25 November 2010

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WHAT'S NEW IN MEDICINE

Subclavian catheter placement: what can go wrong?

An analysis of failed subclavian catheter placement attempts by residents identified 6 common errors in technique.

Central Venous Access, Subclavian Vein, Subclavian Approach, Clinical Procedures

BROWSE BY SPECIALTY

Medicine

- Allergy and Immunology
- Cardiology
- Clinical Procedures
- Critical Care
- Dermatology
- Emergency Medicine
- Endocrinology
- Gastroenterology
- Genomic Medicine
- Hematology
- Infectious Diseases
- Nephrology
- Neurology
- Obstetrics/Gynecology
- Oncology
- Pathology
- Perioperative Care
- Physical Medicine and Rehabilitation
- Psychiatry
- Pulmonology
- Radiology
- Rheumatology
- Sports Medicine

Surgery

- Clinical Procedures
- General Surgery
- Neurosurgery
- Ophthalmology
- Orthopedic Surgery
- Otolaryngology and Facial Plastic Surgery
- Plastic Surgery
- Thoracic Surgery
- Transplantation
- Trauma
- Urology
- Vascular Surgery

Pediatrics

MEDSCAPE NEWS

Senate Clears Way for Vote on Delaying Medicare Pay Cut

Alcohol Intake Linked With Increased Risk for Benign Breast Disease in Teen Girls

Symptoms Alone Do Not Predict Acute Otitis Media in Young Children

Management of Male Urethritis Reviewed

Alert Lab Tests Confirm Reduced Potency of New Heparin Formulation

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GP trainee

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Hospital doctor CPD

Earn CPD points by completing online courses covering major medical specialties in secondary care. Now over 370 online CME courses.



Foundation programme

Online learning covering major medical specialties to help you pass the Foundation Programme.



Emergency Medicine CPD

Free access to College of Emergency Medicine Members and Fellows. Many courses created with the CEM.



Primary Care Nurse CPD

Nurse CPD and CME courses. Online learning for Primary Care Nurse.



International

If you're outside of the UK go to this channel to access 500 courses for primary and secondary care doctors.



Other healthcare professionals

Over 200 interactive continuing medical education and medical CPD modules for all healthcare professionals.



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FREE MODULES

- [Rheumatoid arthritis: an update on management - in association with NICE](#)
- [Attention deficit hyperactivity disorder: a guide to management in adults and children - in association with NICE](#)
- [Chronic kidney disease: early identification and management in adults - in association with NICE](#)
- [Anxiety disorders in adults: in association with NICE](#)

User help

- [BMA member? Get free access](#)
- [Need help? Read our FAQ](#)
- [User guide A step by step guide through the site](#)

Hot exams

[On Examination](#)



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- Tools for Medical Professionals
- Tools for Patients
- Tools for Organizations



John Townsend MD
Clinical Assistant Professor, University of Wisconsin
Public Health
Madison, WI

Contact
Office Phone
608-263-8222

Websites
<http://www.medpedia.com>

Education
Universities
Albert Einstein College of Medicine
Medical Doctor

Postgraduate Training
Thomas Jefferson University Hospital
1995 to 1999
Obstetrics and Gynecology, Residency

Certifications
American Board Of Obstetrics and Gynecology
2001
Board Certified, 2001

Members
Chloe Duffin, MD
Greg Fosuoh, MD

- Patient Communities
- Professional Network
- Medical Specialists
- Groups & Associations
- Medical School Network

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Communities [Emergency Medicine](#) [Adult ADD and ADHD](#) [Diabetes](#) [Medical Ethics](#) [Hypertension](#) [Women's Health](#) [Influenza](#)

Editor of the Week



Jonathan Williams MD, MMSc

Group of the Week



Alzheimer's Disease International

Institution of the Week



University of California San Diego School of Medicine

Article of the Week



Pleurisy

In association with:



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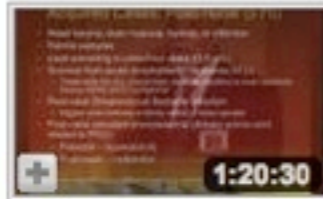
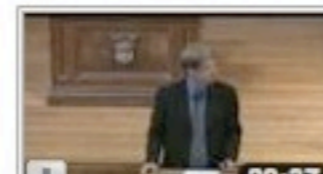
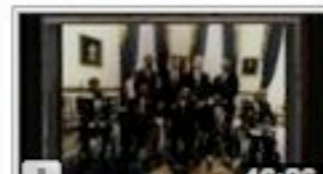
No need to reinvent the wheel ...

Review ... Reuse ... Remix

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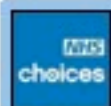
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[Search](#)**Videos****Channels**In: **Education** (Health & Medicine)**Most Viewed**When: **All Time** ▼**Management of ADHD**28,361 views
UCtelevision**MDTV: Parkinson's Disease Dementia**27,844 views
UCtelevision**Endometrial Ablation- Health**27,806 views
mushealth**The Physical Exam and Bedside Ma...**27,570 views
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UCtelevision**VATS Surgery for Lung Cancer- He...**23,824 views
mushealth**Healthy Women Healthy Families: ...**23,507 views
UCtelevision**Coping With Stress - Biofeedback...**23,121 views
UCtelevision**Obesity, Diabetes and Energy Met...**21,281 views
ResearchChannel

You Tube EDU

NHS choices Your health, your choices

Watch hundreds of health and lifestyle videos and get information and advice at www.nhs.uk



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4:40



Morning sickness (NVP)
39 views - 2 weeks ago

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Breastfeeding twins

You Tube



Prof Koch's Guide to Perfect Blood Cultures

by [Lindsay Knight](#) PLUS
11 months ago



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5. [The journey of YMAG](#)
by [Lindsay Knight](#)
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4. [Prof Koch's Guide to Perfect Blood Cultures](#)
by [Lindsay Knight](#)
11 months ago



3. [See Something Say Something: Kelly's Story](#)

Ever wondered how to take the perfect Blood Culture? Never fear, Prof Koch is here to help. Co-developed with staff from Barts & The London Hospital infection control team.

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NEW AND NOTABLE See All



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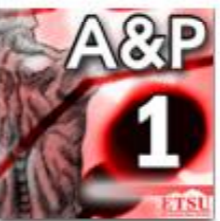
FEATURED See All




Aspects of Anatomy
University of Warwick




Anatomy (Upper Division)
East Tennessee State University




Anatomy & Physiology I
East Tennessee State University




Chirurgische Nahttechniken
Ludwig-Maximilians-Universität Mün...



Yale Health & Medicine
Yale University




MIT 9.14 Brain Structure & Its O...
MIT



MIT 9.20 Animal Behavior, Fall 2...



Nutrition Outreach
Clemson University



Medical Physiology

TOP DOWNLOADS

1.  **The Lungs**
University of Warwick
2. **Forensic Identification**
KQED
3. **Chirurgische Nahttechniken**
Prof. Dr. Matthias Siebeck
4. **Gefäßchirurgie der Venen**
LMU Chirurgie
5. **La bioéthique : bonne consc...**
Sicard Didier
6. **Using Evolution to Understa...**
Matthew Scott
7. **The Battle of the Diets: Is An...**
Christopher Gardner
8. **Lecture 1: The Brain: Betwe...**
Jeremy Wolfe
9. **Die gynäkologische Untersu...**
AYMZ
10. **91007 deep anterior forearm**
Dr. Allan Forsman
11. **CV-Lec12-13-08**
East Tennessee State Univ
12. **New Perspectives on Meno...**
Marcia L. Stefanick
13. **Lecture 04: History and Goal...**

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HE - Medicine and Dentistry

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Recent Deposits

[Seat Height \(two formats\)](#)

Maria Parks (2010-11-05)

[ECG Tutorial](#)

University of Bristol (2010-08-18)

[Acute Kidney Injury Tutorial](#)

University of Bristol (2010-08-18)

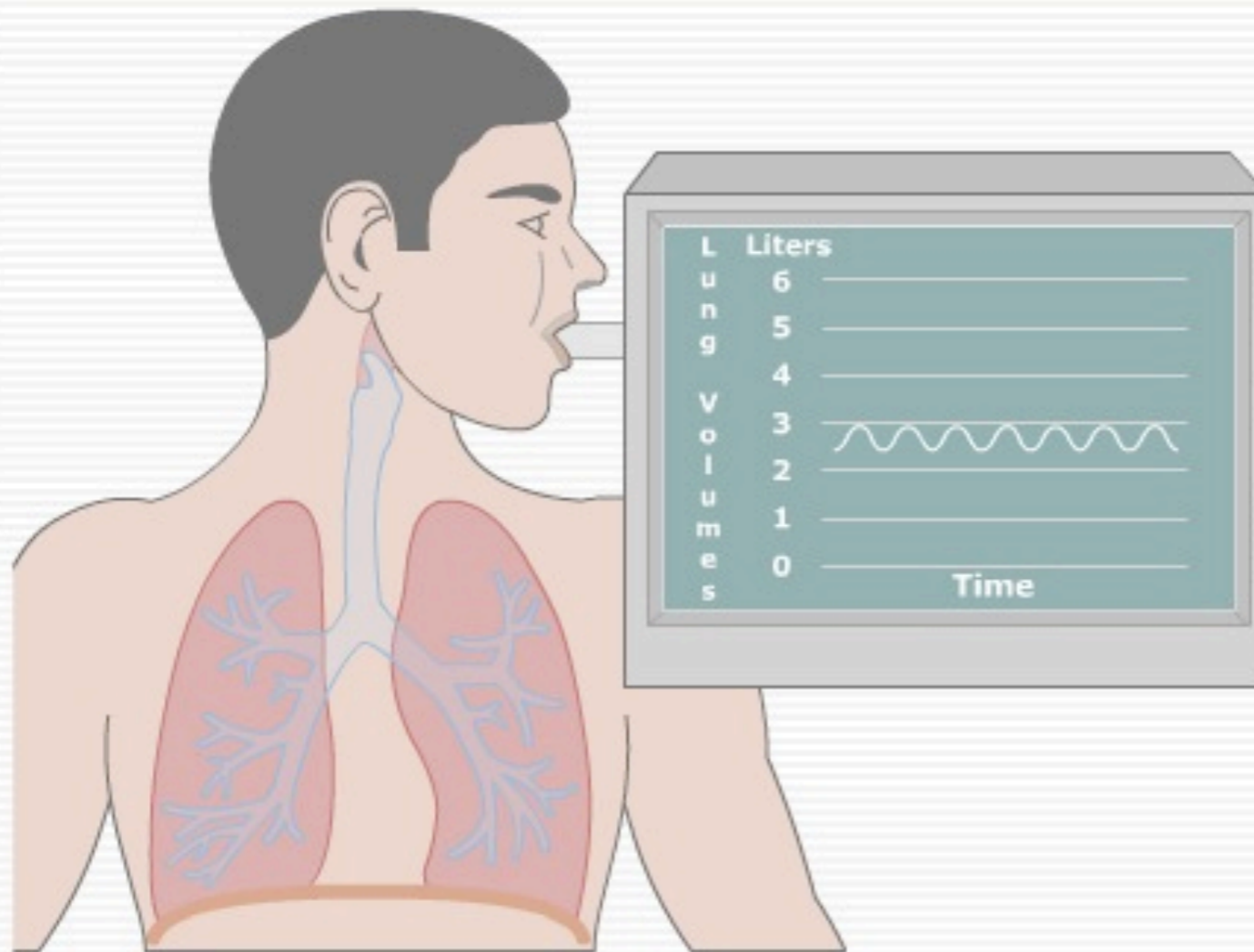
Repositories

TUTORIAL:

The study of pulmonary ventilation is called **spirometry**.

To **measure** the rate and volume of airflow, an individual breathes into a device called a **spirometer**. Air blown in and out of the spirometer causes the scan to move up and down from a horizontal baseline. **Inhalation** causes an upward deflection and **exhalation** causes a downward deflection. The recording produced is referred to as a **spirogram**.

Measurements of forced breathing can provide useful information about the health of the respiratory airways and lungs. A reduced rate of airflow indicates a blockage in one or more of



Interactive tutorials

A NEW KIND OF GP

SATURDAY, 12 JUNE 2010

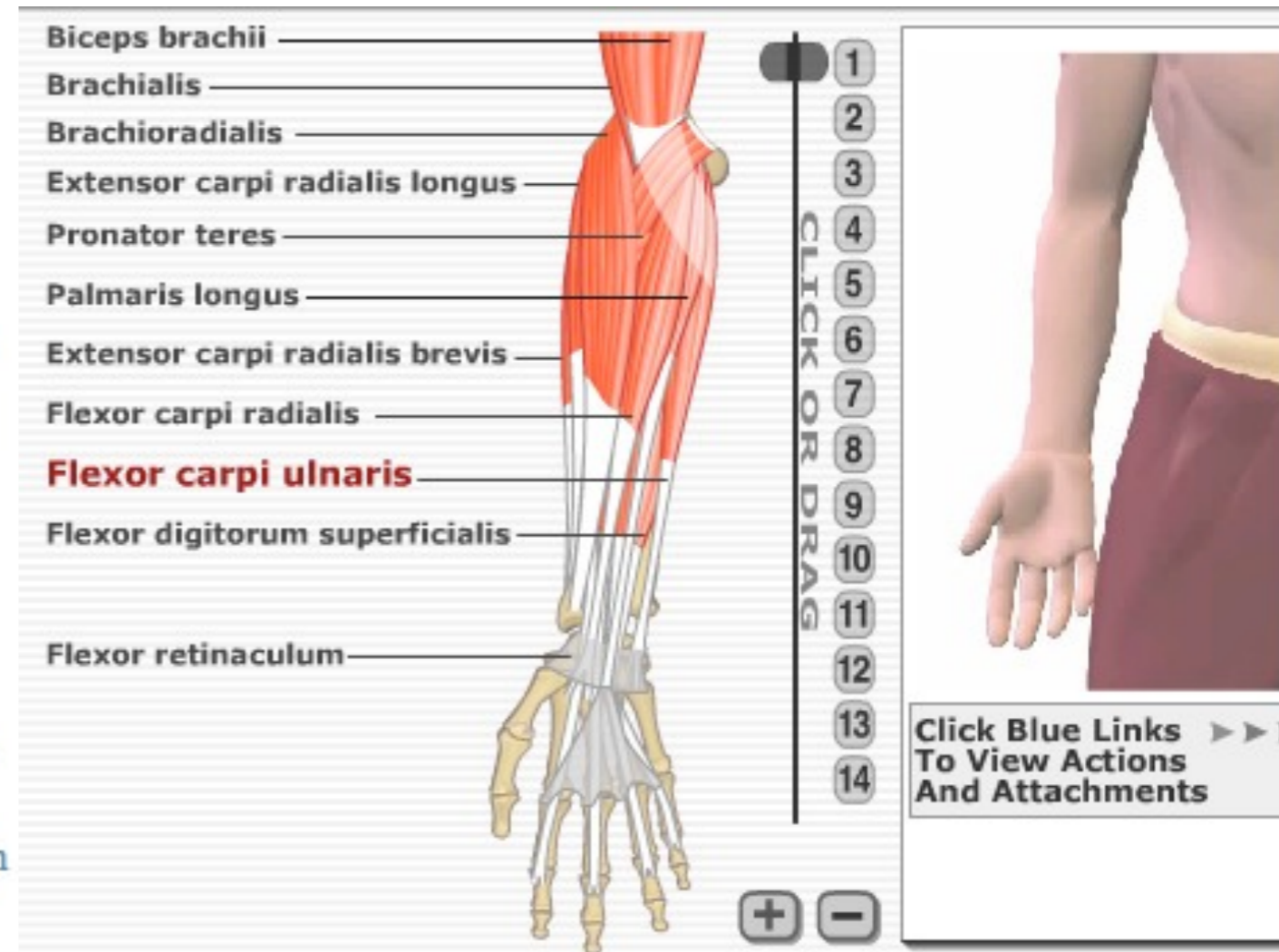
The wonders of Google....

Jason is 23, an electrician. It was a hot day, and he arrived in my consulting room, apologising for being in his work clothes. This included a vest which showed off his very fine physique, suggesting hours of work in the gym.

He clearly needed to be seen by an orthopaedic surgeon, so I set about getting a letter done for him. But I needed to refresh my knowledge of the anatomy of the forearm. I am a locum GP and work in lots of different surgeries so I do not have a bookshelf of textbooks that I can delve into for information. Google came to the rescue.

I typed in "wrist flexors" and narrowed down my identification of the tendon affected as flexor carpi ulnaris. I clicked on google images and came up with [several diagrammatic representations of this muscle](#). Another couple of clicks and I found a great website, getbodysmart.com which provided a detailed diagram of this particular muscle together with a button to click on to show how it moves the hand/wrist - movements which my patient had lost.

My patient was suitably impressed by the visual explanation and I felt



Students & patients

[Patrick J. Lynch](#) > [Collections](#) > [Illustrations](#)

[Slideshow](#)



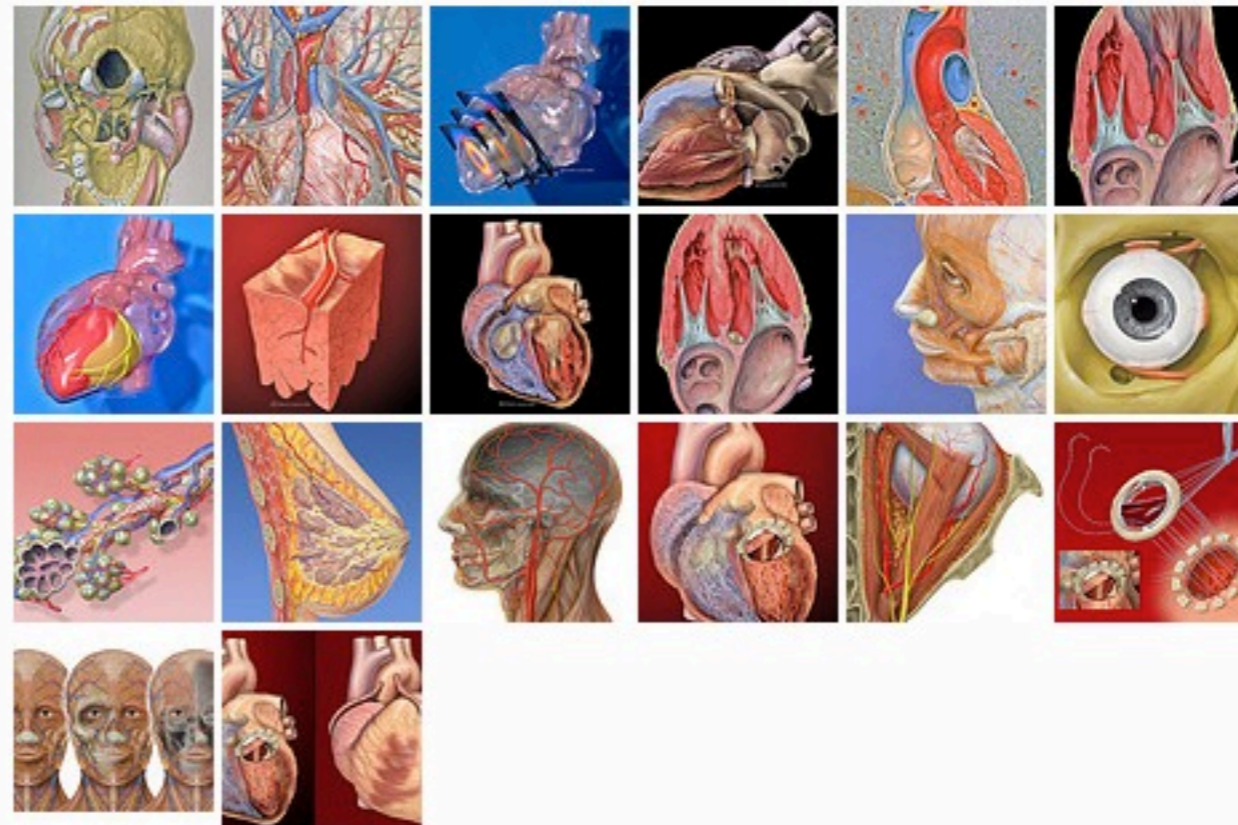
Medical illustrations

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20 photos | 3,870 views

items are from 07 Apr 2007.



Images

BUT

NO ACCESS

to many of these sites
on NHS PCs



Please click on the 'MBChB Intake 2007-08 (Year 4)' link above to return to homepage.

Useful Clinical Links

The section below contains useful online clinical links. Email a.y.gray@dundee.ac.uk if you have a recommended link you want here.

[Tayside Prescribing Guide](#)

Year 4 General Information & Forms

This folders below contain general 4th year information and forms including:

- Year 4 Handbook
- Good Referencing Guide (Vancouver)
- Academic Calendar
- Phase 3 Contacts
- Notification of Absence Form
- Request for Leave of Absence Form
- Good Medical Practice (elating the curriculum outcomes to the GMC Good Medical Practice 'Duties and responsibilities of Doctors')
- List of Dundee Core Clinical Problems
- Block Outcome Assessment Form/ Remedial Work Form and Instructions
- Scottish Medical Careers Handbook (tbc)

Child Health Attachment

Block Contacts

Child Health Induction Resource **NEW!** please note headphones required

Study Guide

Teaching Contacts

Teaching Resources

Ninewells Resources

Fife Resources

Child Health Assessment

General Practice Attachment

DundeeGP website

Block 1 Allocations

Medicine 1 Attachment

Block Contacts

Study Guide

Teaching Resources (mainly accommodation

Psychiatry Attachment

Block Contacts

Study Guide

Psychiatry Dept Website

Psychiatry Tutorials

Psychiatry Resources

ECT Video

Surgery 1 Attachment

Block Contacts

Study Guide

Fife Resources

Ninewells - Ophthalmology

Ninewells - Otolaryngology (ENT) **UPDATED**

Ninewells - Urology (no resources)

Surgery 2 Attachment

Block Contacts

Study Guide

Medical School VLE



Problems with IE6

http://www.flickr.com/photos/www_ukberri_net/4340086339/

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drigo
V5.0 beta

 Pageflakes

 **WORDPRESS**

 TypePad®

 netvibes
Dashboard Everything

ZOHO Docs

 **Blogger**

Google groups

friendfeed

 **delicious**

 slideshare
present yourself

 wikis by wetpaint

tumblr.

screenr™

pixlr
PHOTO EDITING SERVICES

Jing®

Google docs

 Wikispaces

 **Audacity**®

posterous®

Increasing use of free learning tools



A case of a very painful shoulder

February 17, 2010 by [John Dent](#)



This is the Xray of the left shoulder of a 42 year man following a fall from a height onto his outstretched hand.

He has a painful, immobile shoulder with loss of the normal contour of deltoid.

What do you think the Xray shows? (there are two abnormalities to notice here).

DUNDEEBONES

DundeeBones is all about the musculoskeletal system at Dundee. Find out about bones, x-rays, fractures and a whole lot more.

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Wordpress

Dundee University GP Attachment

Primary Care Medicine attachment



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Assessment Forms

Posted on [November 15, 2010](#) by [sxlaw](#)

Dear Tutor

The route to access the assessment forms is from within the **forms page in Tutor resources**, one tutor raised the confusion of the login site in the sidebar which is for administrative purposes only. I have placed links to the form page thought out the assessment section which I hope will help.

Recent Posts

- [Assessment Forms](#)
- [Attachment Accomodation](#)
- [Roger Neighbour Lecture](#)
- [Third Fourth Year Block](#)
- [Tutor Development Programme](#)

Upcoming Events

There are no upcoming events at

Dundee GP on Wordpress

DUNDEE MEDICINE

Dundee Medical Blogs

International Health

DundeeGP (521) [Edit](#)

DundeeSkin

Dundee Med Ed

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HTML [Share](#) [Edit](#) ✕




trip database

 [Go](#)

 (15) **Scottish Intercollegiate** [Share](#) [Edit](#) ✕

- Publication of SIGN 121: Diagnosis and management of psoriasis and psoriatic arthritis in adults 2 weeks ago
- Prevention and management of venous thromboembolism implementation event 2 weeks ago
- Implementing GRADE - statement of principals 2 months ago
- Publication SIGN 120: Management of chronic venous leg ulcers 2 months ago
- Open consultation on the draft updates to the BTS/SIGN British guideline on the management of asthma 4 months ago
- Publication of SIGN 119: Management of Patients with Stroke: Identification and Management of Dysphagia 5 months ago
- Publication of SIGN 118: Management of patients with stroke: rehabilitation, prevention and management of complications, and discharge planning 5 months ago

[older](#) ▶

 (63) **RCGP news feed** [Share](#) [Edit](#) ✕

- RCGP Centre for Commissioning recruits first leaders 3 days ago
- RCGP launches toolkit for Primary Care Federations 2 weeks ago
- Sign up for the National Autistic Society's Professional Conference 2 weeks ago
- RCGP to launch centre for commissioning 1 month ago
- Practice Management Network to be hosted by the RCGP 1 month ago
- Steve Field keynote speech 1 month ago
- White Paper framework and Commissioning Paper 1 month ago

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 (111) **BMA daily feed** [Share](#) [Edit](#) ✕

- Star performer in the future
- Regulator plans online CESR applications in the future
- Floods GP on awards shortlist in the future
- Q and A: how is the BMA helping SAS doctors? in the future
- Red tape bars doctor from graduating in the future
- 'Super regulator' could cut accountability in the future
- Management costs 'jaw-dropping' in the future

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BMJ (332) Latest headlines from BMJ [Share](#) [Edit](#) ✕

- Better surveillance is needed to halt spread of artemisinin resistant malaria 17 hours ago
- Doctors' distinction awards suspended in Scotland 17 hours ago
- New consortium set up to provide evidence on which interventions work in improving sanitation 17 hours ago
- New head of US Medicare defends health reforms in brief Senate hearing 17 hours ago
- US healthcare continues to lag behind other countries despite double the costs 17 hours ago
- Coprescription of clopidogrel and proton pump inhibitors 21 hours ago
- The relation of price of antiretroviral drugs and foreign assistance with coverage of HIV treatment in Africa: retrospective study 21 hours ago

[older](#) ▶

Sharing information - Netvibes

Social Media in Medicine and Medical Education



Natalie Lafferty //

Nov 7 / 2:00pm

TILT - you'll be amazed at what you don't know

by Natalie Lafferty

Welcome to TILT – the place to record and share clinical learning

To start, type your learning in the box above (& register later), or you can register straight away using the button below.

[Become a member](#)

via tlt.tripdatabase.com

This site has been set up by Jon Bassey at Trip Database. The idea is doctors post something, they learned today, something they need to learn and further learning.

I wonder if something like this would work with students?

Filed under // [learning](#) [TILT](#) [Trip Database](#)

[Comments \(0\)](#)

Nov 4 / 4:44pm

Online Social Networking by Patients with Diabetes: A Qualitative Evaluation of

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[diabetes \(1\)](#)

[learning \(1\)](#)

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[social media \(1\)](#)


[social networking \(1\)](#)

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Project spaces - Posterous

My List: Patient Experiences

[Play as Weblides](#)

List Info

18 items | 15 visits

This list has links to blogs and sites which give accounts of patient experiences of different illnesses.

Updated on 2010-06-05

Created on 2009-02-11

Category: Health & Wellness

[patient](#) [experiences](#)
[blogs](#)
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 [Let Me Live](#)

A blog written by a graduate in the North East of England about their experience living with cystic fibrosis

[more from medinthemist.blogspot.com](#) - Cached - [Text View](#) - [Edit](#) - [Remove](#) - [Preview](#)

[patient experiences](#) [patient blogs](#) [cystic fibrosis](#) [respiratory](#)
 [Healthcare Blogger Code of Ethics » Patient Blogs](#)

List of and link to patient blogs

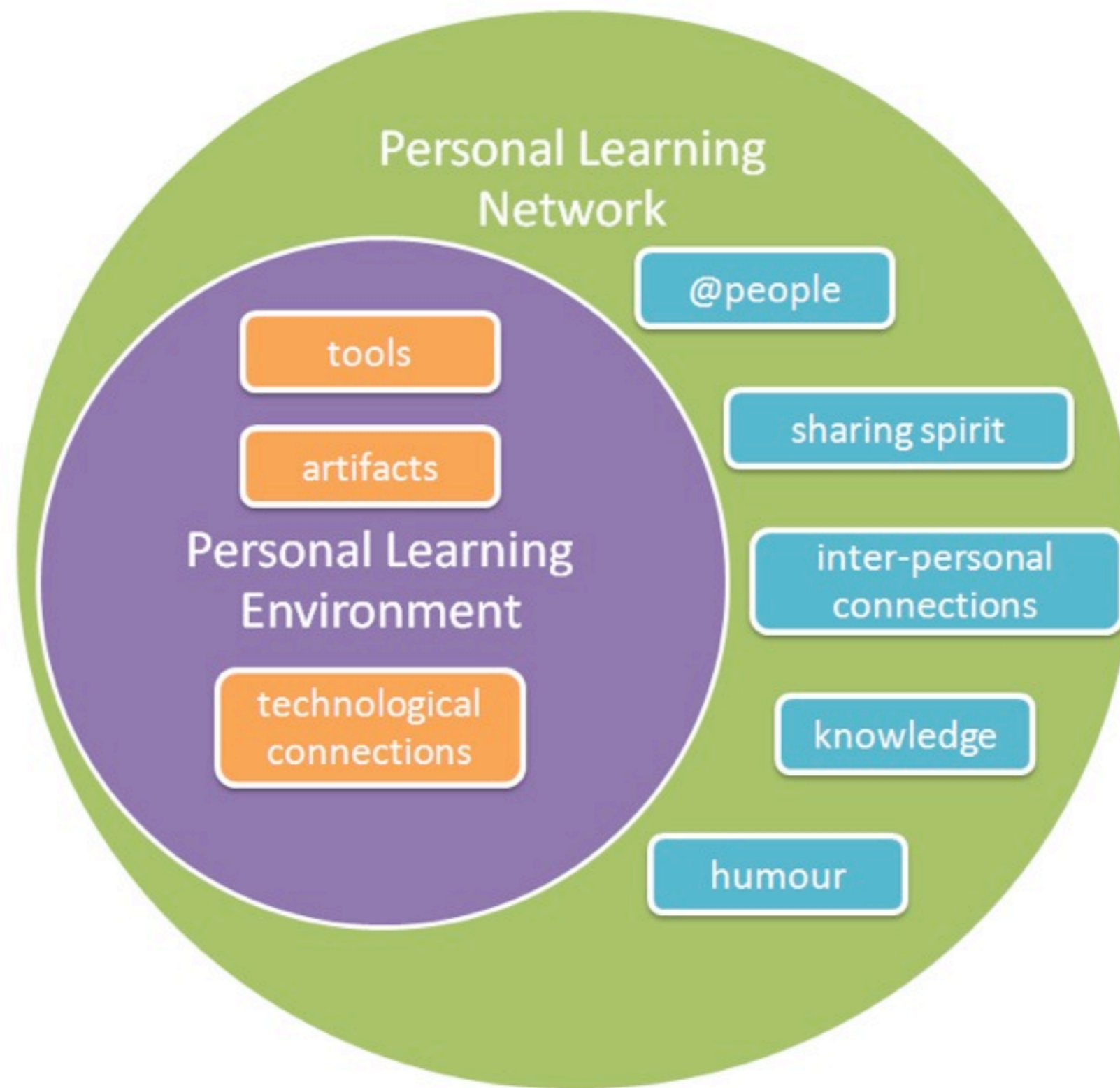
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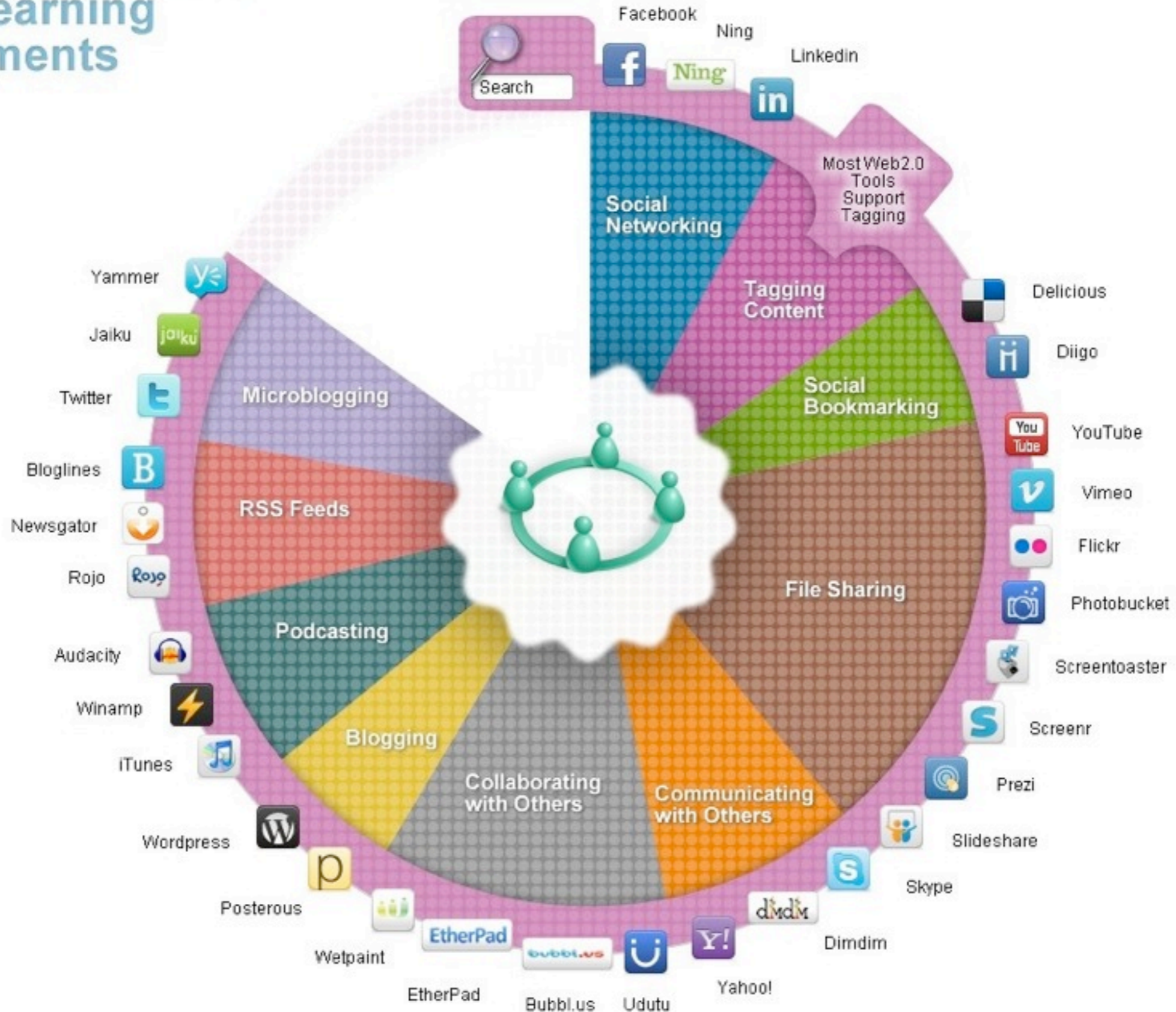

Sharing Bookmarks - Diigo



Joyce Seitzinger /catspyjamasnz 19-12-2008

Personalising learning

Elements for Constructing Social Learning Environments



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Qualitative Health Research

An International, Interdisciplinary Journal
Janice M. Morse, editor

Volume 19 Number 3 March 2009

SAGE

Access this journal through your institution at
SAGE JOURNALS
Online

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zotero
Goodbye 3x5 cards, hello Zotero.

 **MENDELEY**

Research tools

**BUT ... Many of these sites
blocked by NHS IT departments**



<http://www.flickr.com/photos/nooone/1795729648/>

Welsh health board blocks social networking

An NHS body in Wales has blocked most staff from interacting with services including blogs, Twitter and Flickr

GC News

Smart Healthcare, Thursday 4 November 2010 13.01 GMT

Abertawe Bro Morgannwg University Health Board is blocking its 10,000 computer users from uploading material to social networking services by default. It allows general exceptions for the communications and IT departments, and specific exceptions for clinical staff who use such services for research.

The specific exceptions can be detailed, he said, with a member of staff or a group being granted access to a specific section of Flickr, but not the rest of the site.



NHS Staff are looking for the green light ...

for permission to access & use social media sites for teaching and research purposes ...

for patient information ...

to collaborate & share ...



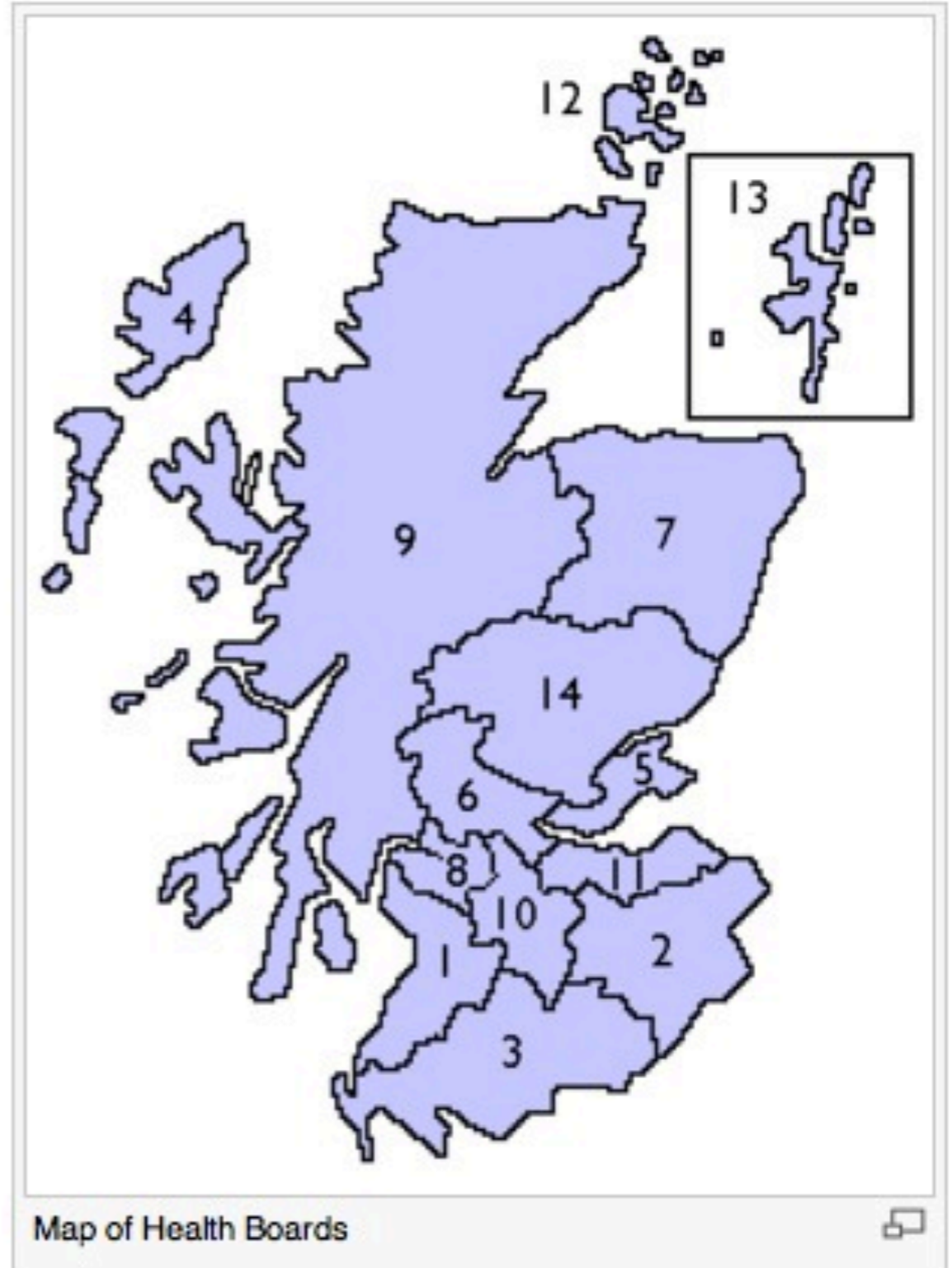
Other Problems

<http://www.flickr.com/photos/paloetic/4625640575/>

NHS Scotland Health Boards



University of Dundee GP Placements



Source: http://en.wikipedia.org/wiki/NHS_Scotland



Problems reported from GP tutors across all Boards

<http://www.flickr.com/photos/mattbrett/185865834/>

Access from the NHS to University teaching and learning facilities : local issues

Solutions for improving access to University information systems from NHS sites



Computing & Media Services

Objective:

“To achieve good inter-operability between NHS and Higher Education (HE) networks that enable secure anytime, anywhere access by medical, nursing and allied profession students, clinical teachers and researchers “

NHS-Higher Education Connectivity Project



Computing & Media Services

Dundee University – affected groups?

- Students
 - Medicine, Dentistry, Nursing & Midwifery
- Clinical Teachers
 - NHS Clinicians involved in teaching
- Research Staff
 - Many NHS-University Collaborations
 - Clinical Research Centre (CRC)
 - Dundee Cancer Centre (DCC)
 - Tayside Academic Health Sciences Centre (*TAHSC*)



The approach to improving access to University resources from NHS sites

1. Increase provision of University infrastructure at NHS sites

2. Local approach

- Connect2Campus - Citrix Zen App Implementation
- SSL Web VPN Concentrator
- Removing local NHS Firewall restrictions

3. National Approach

- N3 JANET Gateway



Increase provision of University infrastructure at NHS sites

- Installation of University WiFi in NHS teaching rooms at Ninewells Hospital, Dundee
 - Only cost-effective where current infrastructure exists
- Installing LANs at remote NHS sites
 - Not cost-effective at every remote NHS site



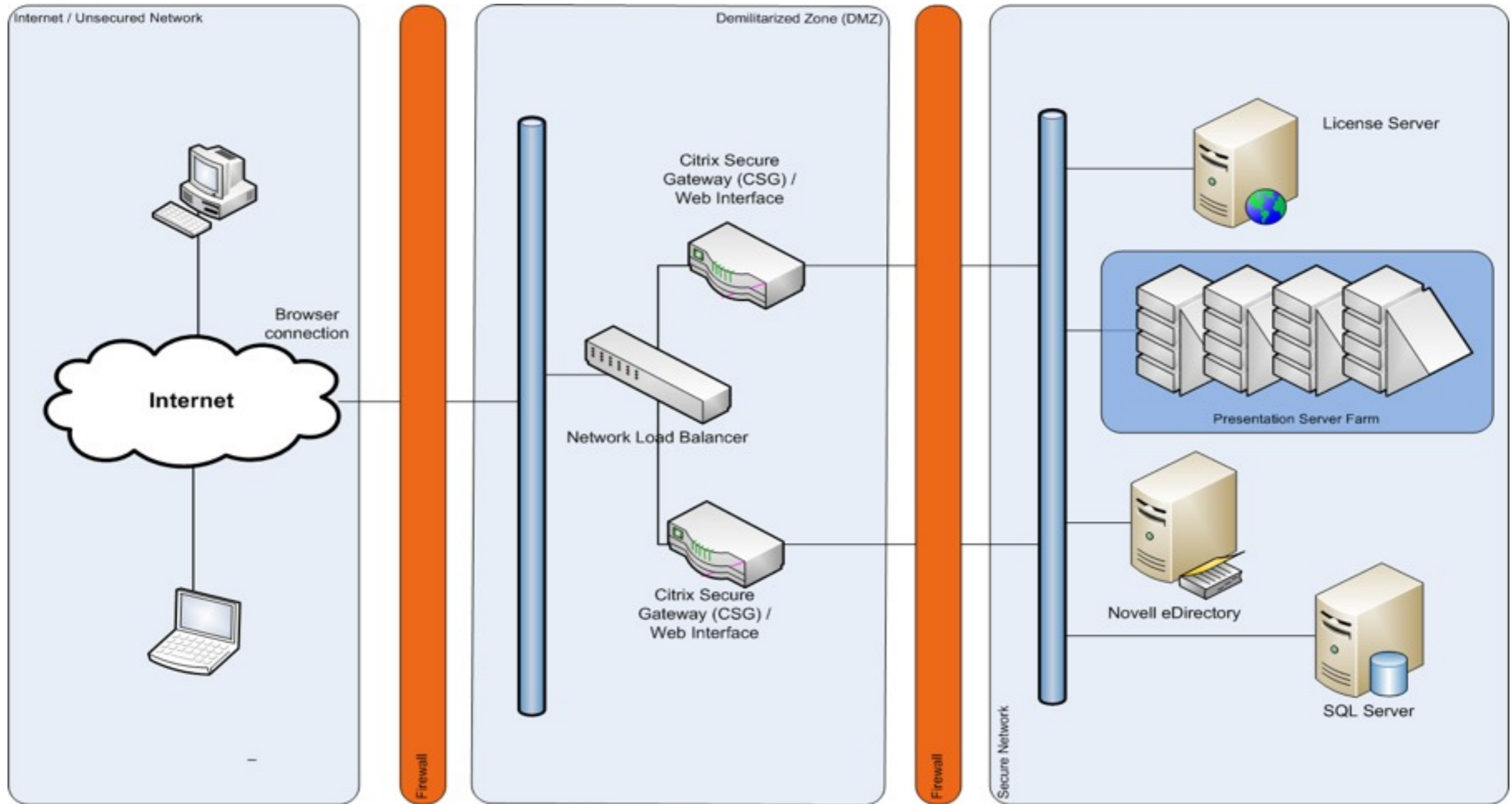
Local Approach

•Connect2Campus

- To provide School of Medicine staff and students access to the University of Dundee information systems, to which they have authorised access, from NHS Tayside sites.
- Implement a thin client system based on Citrix Presentation Server. (Now rebranded as Citrix ZenApp)
- Delivers a managed desktop to staff and students providing access to information systems and campus software.
- NHS Tayside support this implementation and have configured local firewall policies to allow access.



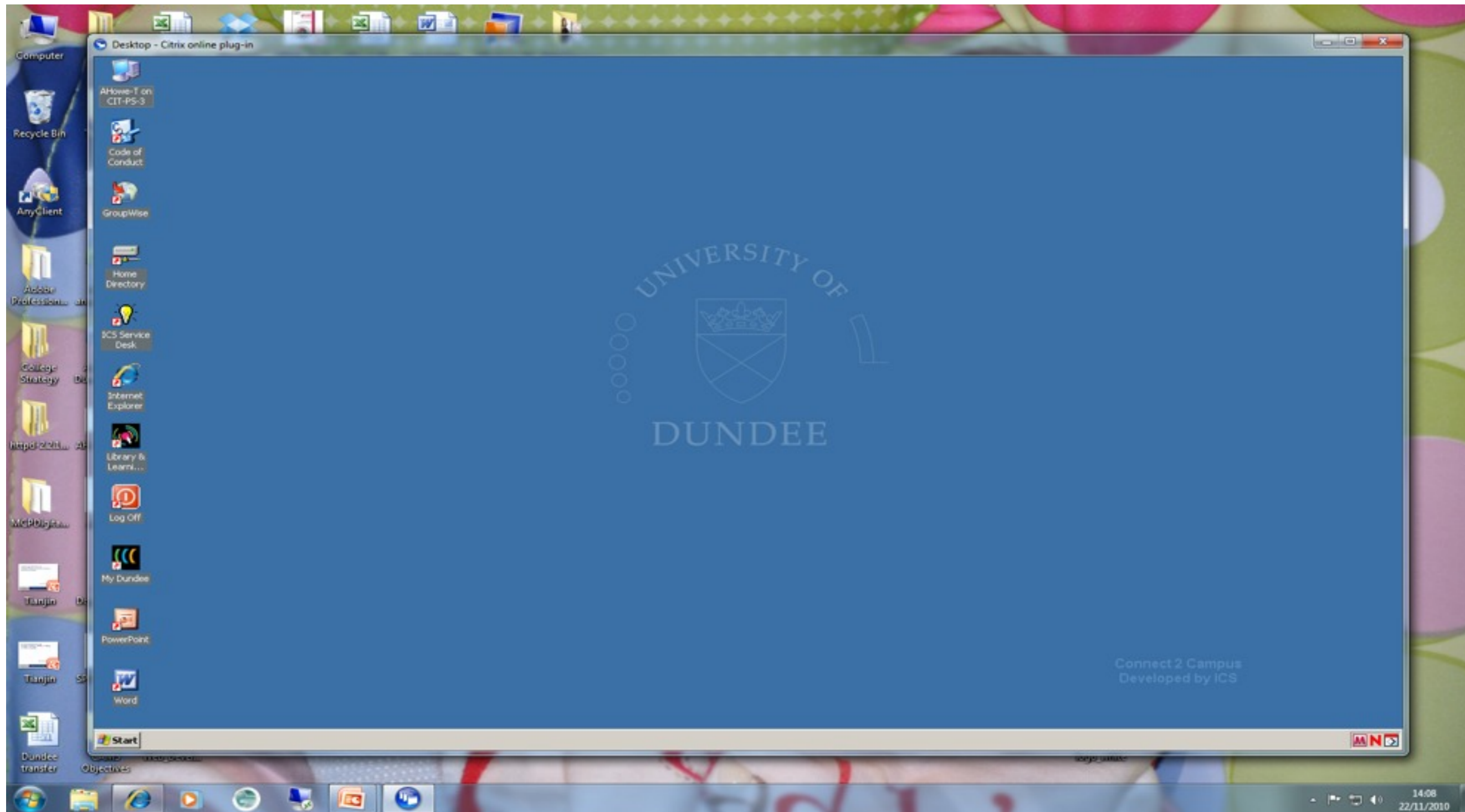
Local Approach – Connect2Campus (Cont)



Citrix Secure Gateway deployment securing Citrix Presentation Server



Local Approach – Connect2Campus (Cont)



Computing & Media Services

Local Approach – Connect2Campus (Cont)

Continued Improvement

- Upgrade Server version
- Enabled Audio
- Use of Full ICA Client
- Use of high definition virtual desktop using HDX technology
- Deliver applications rather than complete desktop

Issues

- Only NHS staff with University contracts
- Supported by NHS Tayside but not by other Trusts/Boards
- NHS PCs often have incorrect JAVA client or no speakers



Local Approach – Connect2Campus (Cont)

•Expensive – Adding new users

Item	Cost	Estimated Cost Per Staff User	Estimated Cost Per Student User
• Additional Citrix license	£282.00 (£240.00 ex VAT) ¹	£282.00	£282.00
• Additional Terminal Server Client Access License (device CAL) for a member of staff	£3.41 (£2.90 ex VAT)	£3.41	-----
• Additional Windows Desktop Services External Connector License (per server) for students	£2,090.89 (£1,779.48 ex VAT)	-----	£41.82
• Additional Windows Server External Connector License (per server) for students	£497.54 (£423.44 ex VAT)	-----	£9.95
• Microsoft Office 2007 license	£46.24 (£39.35 ex VAT) ²	-----	£46.24
• Additional physical server	£3,781.15 (£3218.00 ex VAT) ³	£75.62	£75.62
Cost per additional user		£361.03	£455.63

¹Subject to the Pound - Dollar exchange rate

²The Microsoft Campus Agreement covers staff use but does not apply to student users

³Based on 50 users per server and using the cost of the last server purchased in 2008

Based on VAT @ 17.5%



Computing & Media Services

Local Approach – Connect2Campus (Cont)

- Expensive – annual running costs

Item	Cost	Estimated Cost Per Staff User	Estimated Cost Per Student User
• Esteem Respond Service maintenance contract	£6,951.30 (£5,916.00 ex VAT) ¹	£46.34	£46.34
• Citrix Subscription Advantage	£6,144.19 (£5,229.10 ex VAT) ²	£40.96	£40.96
Annual cost per user		£87.30	£87.30

¹Based on the current infrastructure of four physical Citrix servers, two physical Citrix Secure Gateways and one virtual server

²Based on 150 licenses, subject to the Pound – Dollar exchange rate

Based on VAT @ 17.5%



Local Approach

- SSL Web VPN Concentrator
 - Access resources through University network from NHS PCs
 - This traffic can be routed through the N3 JANET Gateway

- Removing local NHS Firewall restrictions
 - Access University resources directly from N3
 - Requires change in local information access policy

National Approach

- N3 JANET Gateway
 - Support from Local NHS Boards/Trusts for the gateway
 - “It remains a local NHS organisation responsibility to ensure that use is appropriate through local information governance arrangements”
- NHS Tayside have indicated support for the gateway and have asked for a list of University information systems we require to be accessible from NHS Sites.

Service	IP Address	Protocol	Port
Webmail https://webmail.dundee.ac.uk	134.36.3.160	TCP	80,443
File Store https://netstore.dundee.ac.uk	134.36.0.45	TCP	80,443
VLE https://my.dundee.ac.uk	134.36.3.40	TCP	80,443
Websites http://www.dundee.ac.uk	134.36.2.74	TCP	80,443
Library catalogue https://library.dundee.ac.uk	134.36.2.71	TCP	80,443
Academic Resource Finder http://cross-search.dundee.ac.uk	134.36.2.160	TCP	80
Student Management System https://evision.dundee.ac.uk	134.36.82.5	TCP	80,443
Citrix remote access solution https://c2c.dundee.ac.uk	134.36.3.19	TCP	80,443
IPSEC/SSL VPN https://webvpn.dundee.ac.uk	194.81.114.238	TCP	80,443,IPSEC
Blogs http://medblogs.dundee.ac.uk	134.36.192.242	TCP	80



Summary

- Success in providing improved access to Dundee University information systems from NHS sites in Tayside.
- Feedback from students suggests that access is still an issue when on clinical attachments in other hospitals in UK
- Fast, secure IT infrastructure is available, issue lies in restrictions blocking access to information.
- Should local NHS Trusts/Boards be mandated to support N3 JANET Gateway?
- Process for Universities to create a list of information systems that are accessible from all NHS sites in UK?



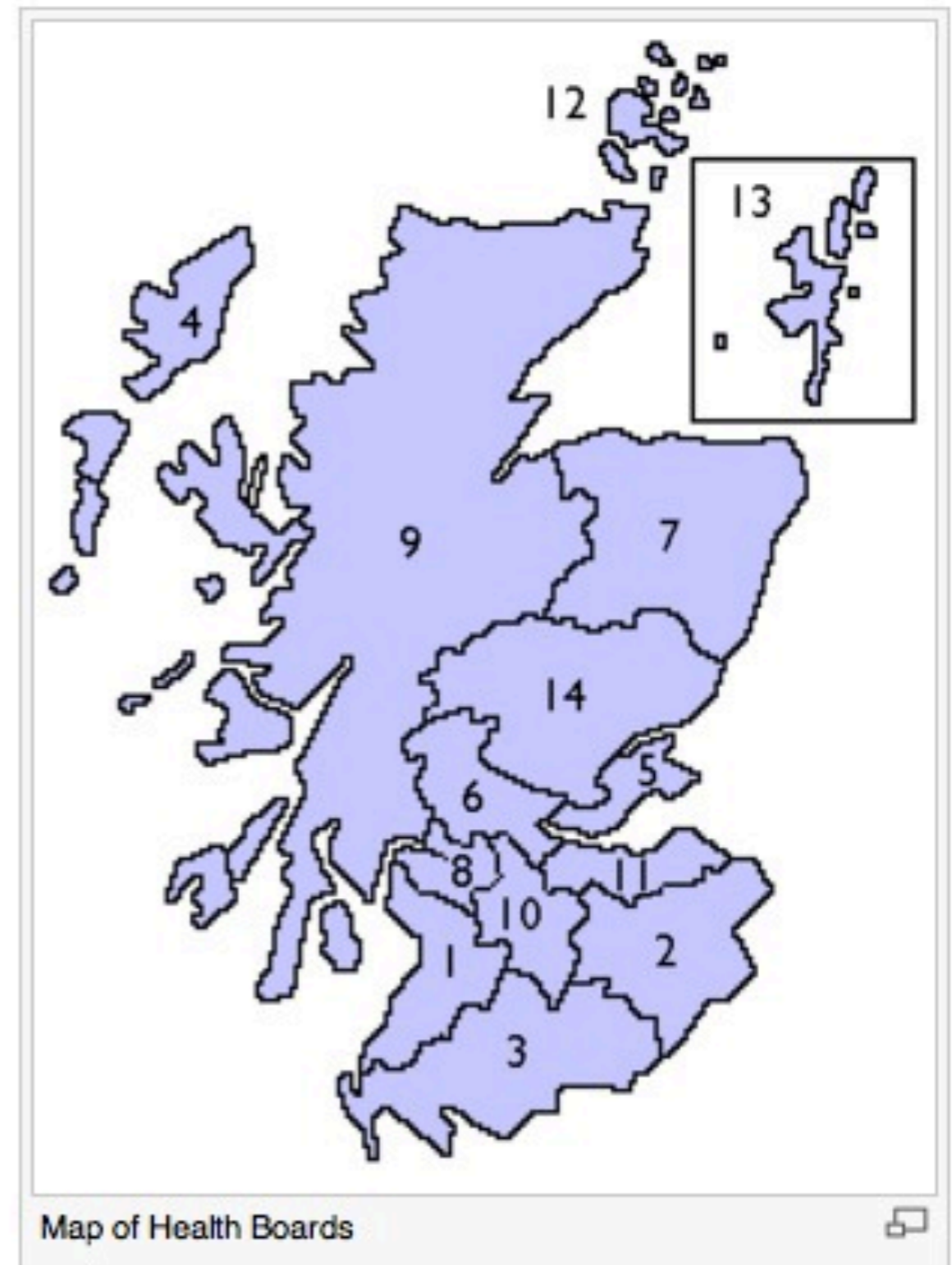
A close-up photograph of a chain-link fence in the foreground, with a blurred cityscape at night in the background. The fence is made of dark metal and is in sharp focus. The background shows a city at night with various lights, including a prominent row of bright yellow lights and some blue lights. The overall scene is dimly lit, with the fence being the primary subject in the foreground.

Getting over the problems locally

BUT

NHS Scotland Health Boards

No	Name
1	NHS Ayrshire and Arran
2	NHS Borders
3	NHS Dumfries and Galloway
4	NHS Western Isles (Gaelic: <i>Bòrd SSN nan Eilean Siar</i>)
5	NHS Fife
6	NHS Forth Valley
7	NHS Grampian
8	NHS Greater Glasgow and Clyde
9	NHS Highland
10	NHS Lanarkshire
11	NHS Lothian
12	NHS Orkney
13	NHS Shetland
14	NHS Tayside



Need to negotiate with 14 Health Boards just in Scotland

Can we find a
national
solution?



http://www.flickr.com/photos/lenny_meriel/13828674/

Thank you!

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Natalie Lafferty - email n.t.lafferty@dundee.ac.uk

College of Medicine, Dentistry & Nursing

