

# **PMG CONFERENCE 2003**

**“IMPROVING THE OUTCOME”**

University of York

17-19 March

# **WHAT'S NEW IN WHEELCHAIR DATABASES**

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for

The PMG Conference 2003

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## AS PROMISED LAST YEAR....



- We're back!
- Again
- With THE database
- PAWS
  - people and wheelchairs statistical dataqbase
- And asking for money.....

## BACK TO 2002

- Pilot database
- 7 Wheelchair services
- 65,000 records
- Data set agreed by Centres
- Feasibility demonstrated
- Simple queries possible

## OUR POSITION STATEMENT

- Presentations to PMG and DoH
- Demonstrated feasibility
- Demonstrated power of the Database
- Recruited additional data sources
  - Bristol, Sheffield, Scotland
- Outlined likely costs
- Plea for support

## CURRENT DATA EXTRACT PROTOCOL

- Equipment against activity  
e.g. repairs etc
- Elements of each action  
e.g. completion dates
- Clinical data e.g.  
diagnosis
- Equipment on issue
- User data e.g. weight,  
height
- **CRITICAL EXCLUSIONS:**
- Crucial dates e.g.  
registration
- Geographical identifiers  
e.g. post code
- as agreed with the Centres

## AS PER THE PROTOCOL

### DATA EXTRACT FILES

The data extract has been split into 5 separate text files,

ActDet.txt	Equipment associated against each recorded activity, such as deliveries, repairs and collections.
Activity.txt	Core information regarding each recorded activity, such as action and completion date.
Cond.txt	client diagnosis based on two categories General and specific. E.g. Neurological and Epilepsy.
lwc.txt	lists the equipment on current issue against each client.
Physical.txt	General client information, such as gender, age, weight, etc.

## FOR DISCUSSION TODAY:

- Wheelchair databases and Clinical Governance
- Further insights into the database structure and potential
- Current resourcing position
- NHS computer initiative
- “Thin clients”

## **HOW DOES THE W/C DATABASE ASSIST CLINICAL GOVERNANCE?**

- The database is as good as the data from which it is compiled
- Open access
- Easy interrogation (relatively)
- Trend analysis
- Peer group comparison
- Enormous case base

## **CLINICAL GOVERNANCE - PRINCIPLES**

- Improve standards of care
- reduce variation in access
- reduce variation in outcome
- improve clinical decision making
- evidence based practice
- ensure proven efficiency

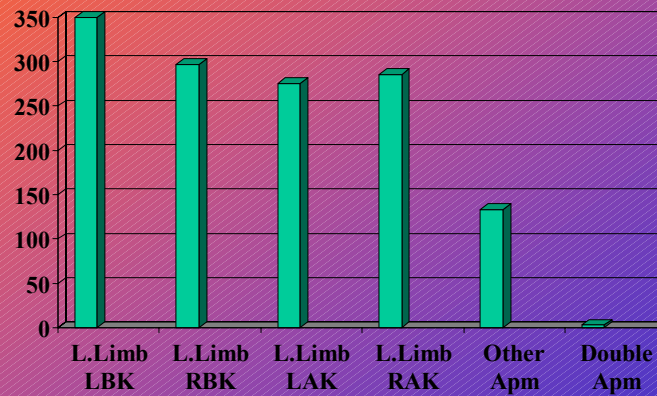
## **HEADLINE COMPONENTS OF CLINICAL GOVERNANCE**

- **Risk management**
- **Staffing and staff management**
- **Patient (user) involvement**
- **Clinical effectiveness**
- **Research and development**
- **Using information**
- **Education and training**

## **FURTHER INSIGHTS INTO DATABASE STRUCTURE AND POTENTIAL**

- Year on year changes
- Trends
- Unexpected details
- Between centres
- Standards
- Benchmarking
- Commissioner involvement

## Amputee Wheelchair Issues



## Neurological Diagnostic Categories

Neurological	C.V.A. (unspecified)	3596
Neurological	C.V.A. (right)	1872
Neurological	C.V.A. (left)	1754
Neurological	Multiple Sclerosis	1352
Neurological	Parkinsons	1234
Neurological	Cerebral Palsy	1079
Neurological	Other Neurological	803
Neurological	Epilepsy	533
Neurological	Paraplegia	281
Neurological	Motor Neurone Disease	256
Neurological	Poliomyelitis	189
Neurological	Spina Bifida	188
Neurological	Ataxia	179
Neurological	Brain Injury	168
Neurological	CVA	152
Neurological	Quad/tetraplegia	124
Neurological	Diplegia	104
Neurological	Parkinsons Disease	77
Neurological	Spastic Paraparesis	66
Neurological	Hydrocephalus	66
Neurological	M.E.	65
Neurological	HEMIPLEGIA	60

## Children with wheelchairs

Age	CountOfAge1	cl	me	mw	SE
3	288	43	6	128	111
4	322	105	6	126	85
5	299	109	9	90	91
6	310	95	17	97	101
7	274	107	9	89	69
8	223	78	18	83	44
9	208	84	16	64	44
10	202	79	18	62	43
11	185	76	7	63	39
12	171	67	17	60	27
13	157	46	9	62	40
14	189	70	23	59	37
15	162	45	15	67	35
16	162	64	15	53	30

## 17 to 21 years

Age	CountOfAge1	cl	me	mw	SE
17	179	72	21	47	39
18	162	71	4	56	31
19	160	71	13	46	30
20	161	49	16	57	39
21	126	46	8	36	36

## 80 to 99 Years

Age	CountOfAge1	cl	me	mw	SE
80	1566	643	117	434	372
81	1747	710	123	487	427
82	1899	732	145	547	475
83	1931	757	147	596	431
84	1447	584	107	404	352
85	1427	595	93	405	334
86	1594	648	98	481	367
87	1705	728	105	486	386
88	1891	762	109	585	435
89	1842	741	122	563	416
90	1868	713	112	612	431
91	1826	695	124	580	427
92	1625	669	94	516	346
93	1611	616	87	576	332
94	1498	563	66	546	323
95	1299	455	68	467	309
96	1195	465	48	446	236
97	1054	409	37	398	210
98	915	369	34	342	170
99	827	335	32	311	149

## Repair / Collect Lead Time

ActivityYear	Action type	Area	Average Time	Min Time	Max Time
2000	Repair	cl	7	1	55
1997	Repair	cl	130	5	172
1994	Repair	mw	6	5	7

ActivityYear	Action type	Area	Average Time	Min Time	Max Time
1990	Collect	cl	2	2	3

## Voucher Allocation (single site)

actionyear	CountOfaction
	146
2001 May	1
2002 Dec	17
2002 Feb	1
2002 Jan	3
2002 Jun	1
2002 May	1
2003 Feb	8

## Activity Data

Text File Name: activity.txt

Record Definition			
Field No	Field Description	Field Type	Remarks
1	Client reference	text	Indicator used to link associated client record in 'physical.txt' with each activity record reference.
2	Activity reference	numeric	Indicator used to identify each activity detail record with those stored in 'activity.txt'
3	Action type	text	Action description. I.e. deliver, repair, assessment, etc
4	Attended	Text	Used when 'Action Type' is a form of appointment. Used to indicate appointment was either cancelled or completed
5	Referral date	Date	Referral date associated with activity
6	schedule date	Date	Date that activity was scheduled for
7	Completion date	Date	Date that activity was completed
8	Priority	Text	Activity priority. E.g. urgent, standard, etc.

## Client Information

Text File Name: physical.txt

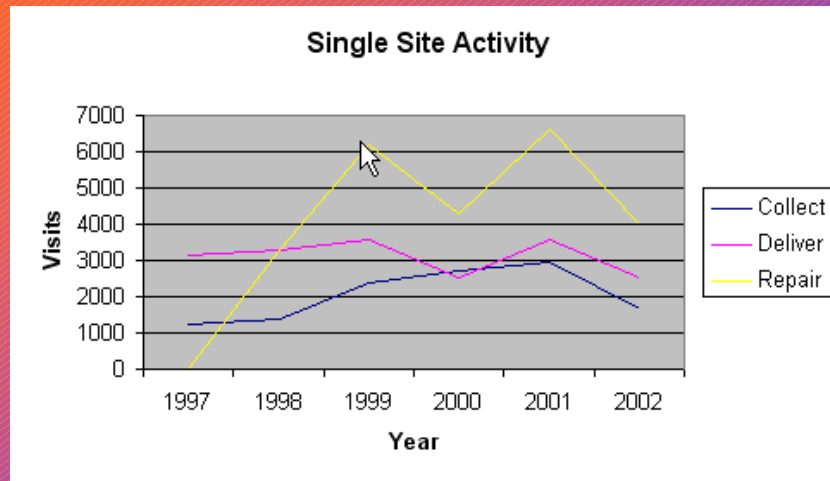
Record Definition			
Field No	Field Description	Field Type	Remarks
1	Client reference	Text	Unique reference for each client record
2	Title	Text	Client title, male / female, used when no gender field entry available
3	Gender	Text	Client gender
4	Date of birth	Date	Client date of birth (dd/mm/yyyy)
5	Date of death	Date	Client date of death (dd/mm/yyyy)
6	Introduction date	Date	Client registration date
7	Height	Numeric	Client height in metres
8	Weight	Numeric	Client weight in kilogram's

## Client Condition

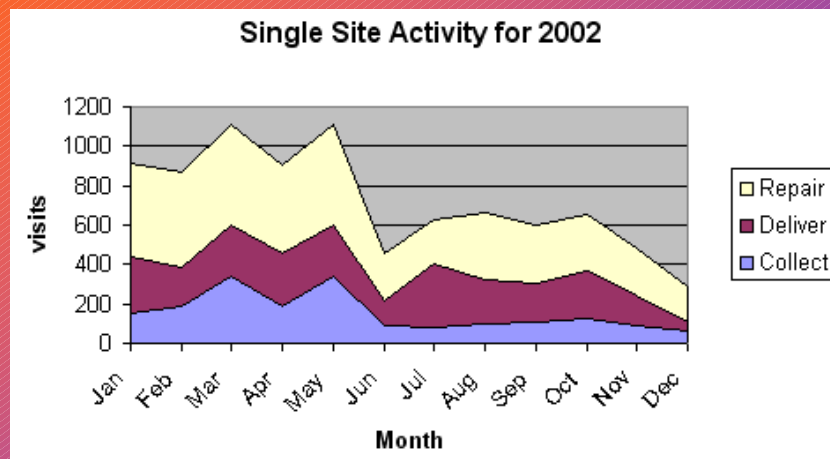
Text File Name: cond.txt

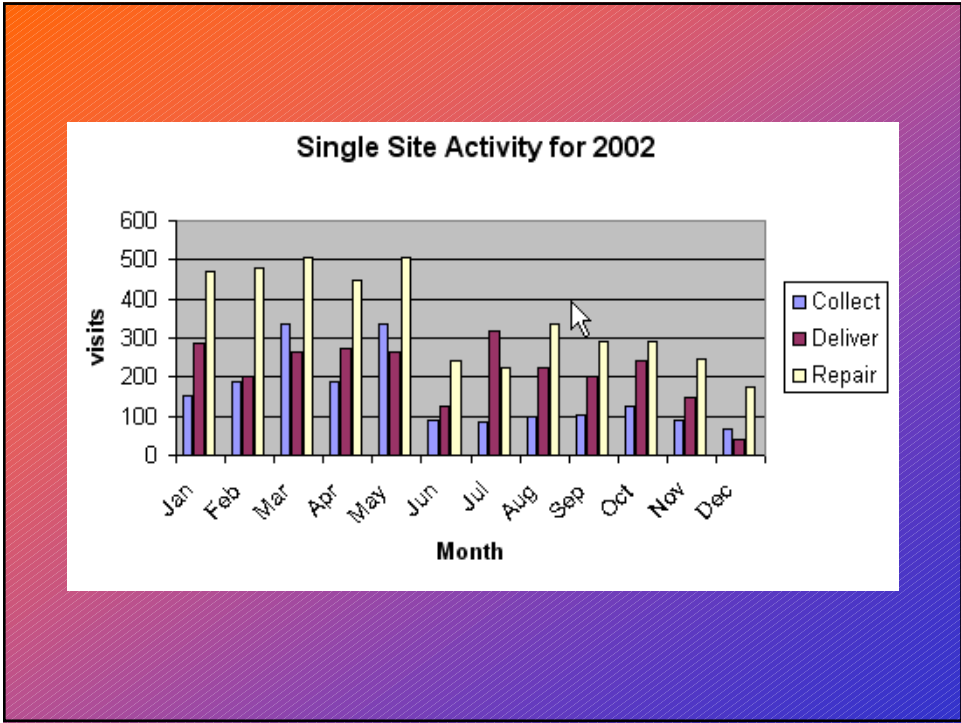
Record Definition			
Field No	Field Description	Field Type	Remarks
1	Client reference	Text	Indicator used to link associated client record in 'physical.txt' with each activity record reference.
2	General disability	Text	General title given to client condition. E.g. Neurological
3	Specific disability	Text	Specific title given to client condition. E.g. Epilepsy linked to General disability

## Single Site Activity by Year



## Single Site Activity for 2002





## Current Resource Issues



- NO additional resources
- Volunteer “fatigue”
- DoH
- Modernisation Agency
- BHTA?
- ??? PMG
- Are we “before our time?”

**AND IN 2004**

