

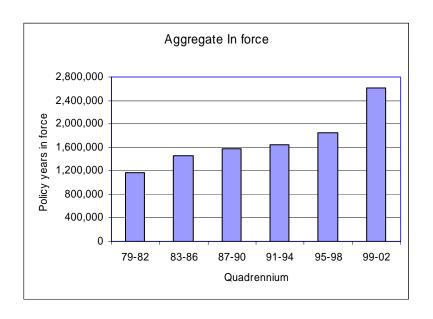
#### IP Trends & Cause of Disability

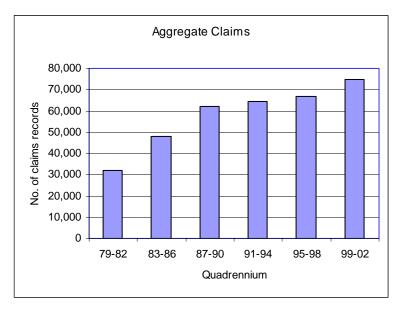
Pete McGurk Secretary, CMI IP Committee

#### Latest experience

- Results for Individual 1999-2002 already sent to offices
- CMIR on web in May 2005
- Only time for "highlights"
- Will then focus on Cause of Disability work

#### **Data volumes**

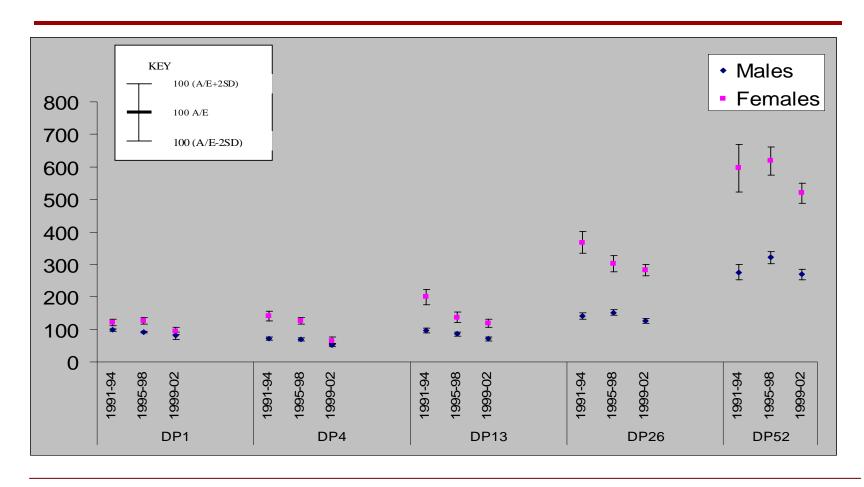




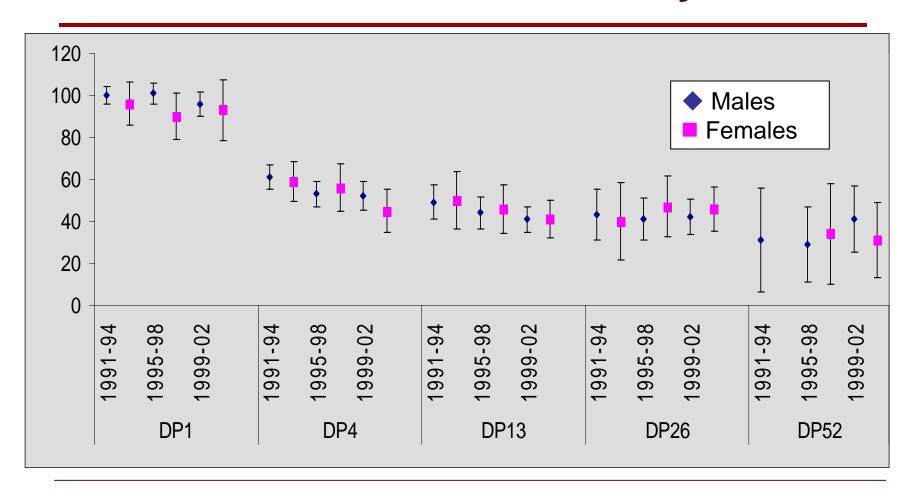
#### General trends in nature of data

- Females increasing (now 23% of IF)
- Proportions of DP1, DP4 reducing
- Proportions of DP13, DP26 increasing a little
- Proportion of DP52 increasing a lot
- Proportion of Occupational Class 2-4 increasing
- Proportion of Occupational Class Unknown reducing but still substantial (c 18%)

# Trends in inceptions 91-02 Standard\* Class 1 only

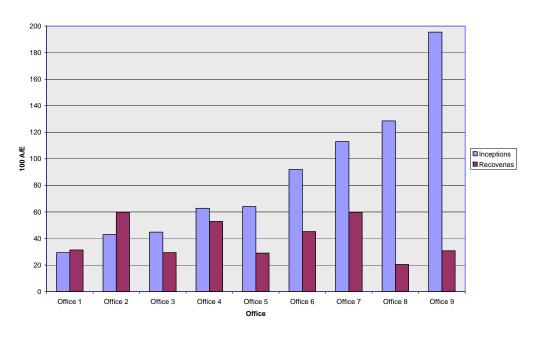


# Trends in recoveries 91-02 Standard\* Class 1 only



## Variation by office

#### Example - DP13, Males, Class 1 business, 99-02



#### "Loyal Office" Results

- Looked at offices present throughout 1991-2002
- "All occupations" only
- Inceptions trends consistent with All Office
- Recoveries some differences
- Deaths broadly decreasing trend as for All Office

## Cause of Disability Working Party

Graham Clark (Chairman) Pete McGurk (Secretary)

Bill Baker

**Gerry Kennedy** 

**David Leach** 

**Jamie Marshall** 

**David Wilkie** 

**CMI Bureau** 



#### Material published to date

- CMIR 8 (1986)
  - 1975-78 Cause of Disability
  - 14 Sickness Groups
  - % of inceptions by sex, deferred period, age group
  - Weeks of claim by sex, deferred period, age group
  - Average duration by sex, deferred period (all ages)
- Warwick Health & Care Conference 2001 (Wilkie)
  - 1975-98
  - Focus on inceptions
  - By single cause (ungrouped)
  - Series of one-way tables year, quad, sex, deferred period, age group, occupational class
  - Proportions by cause of those still sick after 4, 13, 26, 52 weeks

#### Data collected by CMI

- Each claim record coded by cause
- Some coded "unknown"
- 72 causes
  - 70 from ICD8 (WHO)
  - since added ME and HIV/AIDS

#### Why analyse by cause?

- Insight into past trends
- Projecting future trends?
- Reserving more reliably for claims in payment
- Underwriting
- Claims control
- Product design

### **Aims of Working Party**

- Publish details of actual experience 1975-2002 (short-term aim)
- Publish graduations by cause group (longer-term aim) ?

### Major challenges (1)

- Complexity of information
  - 5 deferred periods
  - 2 sexes
  - 28 years / 7 quads
  - 4 occupational classes and class unknown
  - 72 causes and cause unknown
  - x age bands
  - y sickness duration bands

## Major challenges (2)

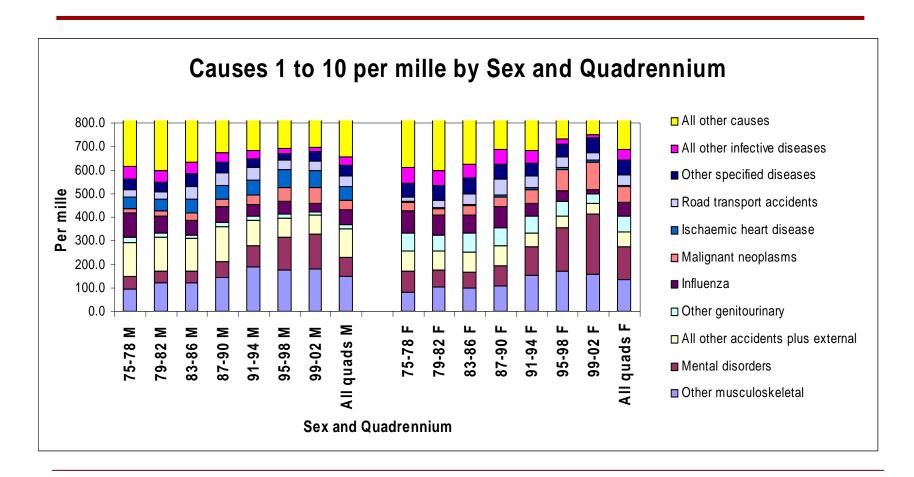
#### Grouping of causes

- how many groups 6?, 9?, 15?, 73?
- how to combine?
- (a) keep individual ICD8 Codes for major (?) causes, aggregate minor causes
- (b) group "medically similar" causes
- (c) group causes with "similar" run-off patterns using statistical testing
- (d) some sort of combination of above

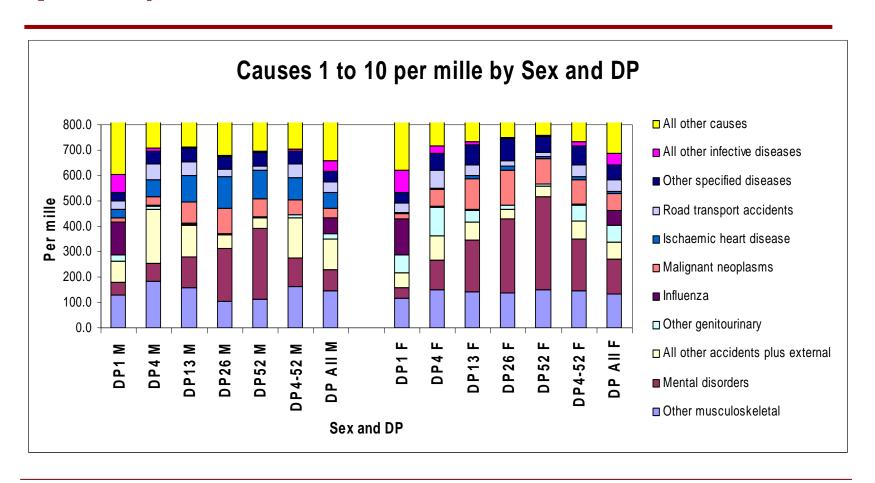
# "Medically similar" groupings

CMIR8			Large practitioner	SoA		
1	Other infective	1	Mental / psychological	1	Pregnancy/childbirth	
2	Neoplasms	2	Cardiovascular	2	Mental Nervous	
3	Endocrine & metabolic	3	Nervous	3	AIDS/HIV	
4	Mental	4	Musculoskeletal	4	Reproductive /urinary disease	
5	Nervous	5	Arthritic	5	Digestive	
6	Circulatory	6	Respiratory	6	Injury / poisoning	
7	Acute respiratory	7	Neoplasms	7	Neoplasms	
8	Chronic respiratory	8	Gastro/intestinal	8	<b>Emergent Disabling Conditions</b>	
9	Digestive	9	Endocrine/matabolic	9	Musculoskeletal/ Connective tissue	
10	Genito-urinary	10	Visual/auditory	10	Other	
11	Musculoskeletal	11	Injuries	11	Respiratory	
12	RTA Injuries	12	HIV/AIDS	12	Nervous system & sense organ,	
13	Other injuries	13	ME		infectious/ parasitic	
14	All others	14	III-defined / miscellaneous	13	Circulatory	
		15	Unknown	14	Unknown	

# Inceptions – Top 10 ICD8 by quad (all DP)



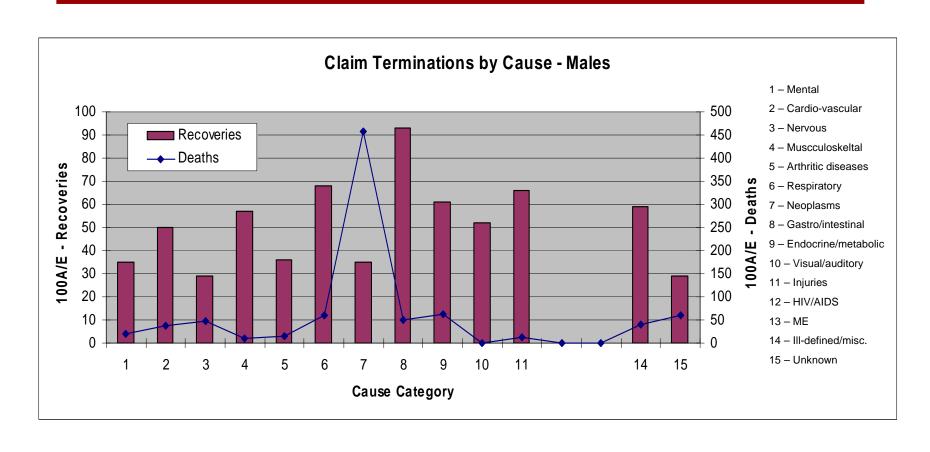
# Inceptions – Top 10 ICD8 by DP (all quads)



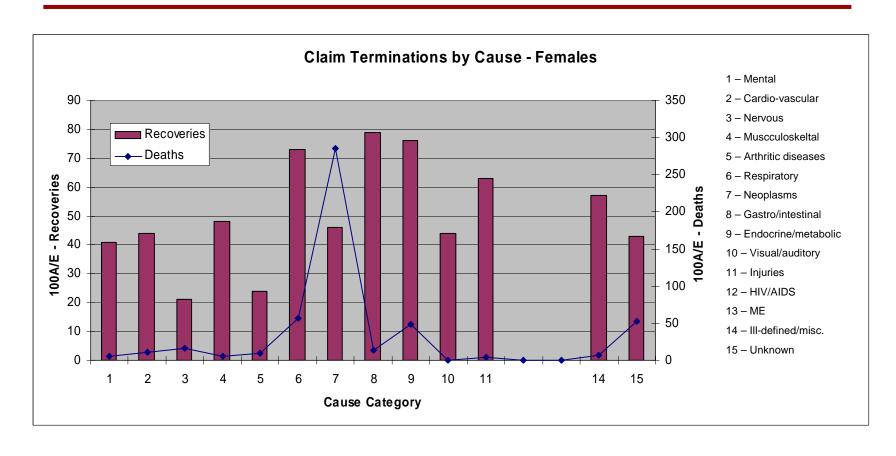
### Terminations by cause group Example detailed report ("Section C")

mmary of results f	Investigation period 1991-98						
mparison Basis : SM197	75–78	Run Date :22/11/2004 Run time :11:41:55					
lividual, Standard*, Mal	es, Recoverie	S.					
	DP 1	DP 4	DP 13	DP 26	DP 52	All DP	DP4-52
A	489	486	268	158	32	1,433	944
E	1,123.3	1,333.4	798.9	414.0	115.1	3,784.6	2,661.3
100A/E by duration							
1 - 2 weeks	45	_	_	_	_	45	_
2 - 3 weeks	55	-	-	-	-	55	-
3 - 4 weeks	45	-	-	-	-	45	-
4 - 8 weeks	47	26	-	-	-	35	26
8 - 13 weeks	44	27	-	-	-	31	27
13 - 17 weeks	36	32	20	-	-	29	27
17 - 26 weeks	21	39	19	-	-	27	28
26 - 30 weeks	18	57	30	30	-	36	39
30 - 39 weeks	16	45	27	20	-	28	29
39 wks - 1 yr	26	45	48	37	-	41	43
1 - 2 years	47	68	51	49	24	49	49
2 - 5 years	<b>1</b>	<b>↓</b>	<b>1</b>	<b>1</b>	<b>↓</b>	57	59
5 - 11 years	45	81	72	49	33	63	66
100A/E by age							
20-24	<b>+</b>	44	<b>↓</b>	<b>+</b>	<b>+</b>	37	34
25-29	↓	30	27	<b>1</b>	<b>↓</b>	34	32
30-34	58	40	38	55	<b>1</b>	45	42
35-39	56	38	38	41	52	42	38
40-44	42	41	32	39	15	38	37
45-49	48	34	40	37	31	40	36
50-54	40	37	27	36	<b>1</b>	35	33
55-59	29	35	29	<b>↓</b>	<b>↓</b>	31	32
60-64	51	<b>↓</b>	22	32	23	<b>↓</b>	<b>↓</b>
65-65	-	21	-	-	-	35	22
100A/E - All Cells	44	36	34	38	28	38	35

# Terminations by cause group, 91-98 DP4-DP52 combined, all occs combined Males



# Terminations by cause group, 91-98 DP4-DP52 combined, all occs combined Females



#### But are groups sensible?

e.g. Respiratory disease, males, all occupations, DP4-DP52, 91-98

ICD 8 Cause	Rec	overies	Deaths		
	Actual	100A/E	Actual	100A/E	
Pneumonia	56	105	6	261	
Bronchitis, emphysema & asthma	49	36	11	46	
Acute respiratory infections	47	84	3	48	
Other diseases of the respiratory system	40	60	5	60	
Influenza	18	198	0	0	
Hypertrophy of tonsils & adenoids	15	129	0	0	

Others have < 10 terminations

# **Working Paper (1)**

- Publish July 05?
- Refine cause groupings
- Base <u>paper</u> on cause group analysis
- Long term comparison by sex and d.p. (75-02)
- More detailed analysis of 91-02 (inc. "Section C" analysis)
  - by sex, d.p., age group, occ. class
- Have more detailed information on 72 ICD8 causes as downloadable file

# **Working Paper (2)**

- Broad proposals re graduation of cause groups
- Questions
  - views on cause grouping & presentation
  - views on graduation by cause group (worth doing??)



#### IP Trends & Cause of Disability

Peter McGurk Secretary, CMI IP Committee