

# Comparing CoMedCa, WaiMedCa, NatMedCa Surveys

# Why?

The health system in New Zealand continues to evolve in attempts to better serve the community

To make further improvements it is necessary to investigate the current state of the health system

General Practise is an important part of this

It is almost 10 years since the NatMedCa Health Survey, so how useful would a new survey be?

# Introduction

CoMedCa            1979/1980

WaiMedCa          1991/1992

NatMedCa          2001/2002

# CoMedCa

Community Medical Care Survey

General Practice in Hamilton Health District

115 General Practitioners involved

Patient records were weighted to allow for varying workloads of different GPs

## WaiMedCa

The Waikato Medical Care Survey Data gathered from General Practitioners, and Practice Nurses, in Waikato Health Board Territory.

To accurately compare with CoMedCa some practices had to be excluded from original survey.

Patient visits were weighted.

# NatMedCa

The National Primary Medical Care Survey

Nation wide survey

In this comparison only those practices which are in the same areas as those of the CoMedCa and WaiMedCa Surveys are used.

# Recruitment and Data Collection

	CoMedCa	WaiMedCa	NatMedCa (Waikato)	NatMedCa (all)
GPs	115	169	52	199
Visits	9450	9656	2321	8276

# Characteristics of Patients

	CoMedCa			WaiMedCa			NatMedCa (Waikato)			NatMedCa (all)		
	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both
<1	3.8	3.2	3.5	4.4	3.6	4.0	5.8	4.9	5.3	5.8	4.0	4.7
1-4	10.6	7.2	8.7	13.5	9.0	10.9	12.9	8.3	10.2	12.0	7.8	9.5
5-14	16.4	12.6	14.2	13.3	9.5	11.1	12.9	8.8	10.4	10.8	8.3	9.4
15-24	15.4	20.6	18.4	11.8	14.3	13.2	8.1	11.1	9.9	7.9	9.0	8.6
25-34	13.4	18.7	16.4	12.1	17.0	14.9	8.8	12.4	10.9	8.2	12.3	10.6
35-44	9.3	8.4	8.8	10.3	11.8	11.2	10.3	14.4	12.8	10.5	13.5	12.2
45-54	9.0	7.4	8.1	9.0	8.6	8.8	10.8	10.2	10.4	11.2	11.4	11.3
55-64	8.1	6.8	7.4	9.0	8.9	8.9	12.0	8.6	10.0	11.9	9.9	10.7
65+	10.5	10.3	10.4	16.7	17.4	17.1	17.0	20.7	19.2	20.7	23.0	22.0
Missing	3.5	4.8	4.3	-	-	-	1.5	0.7	1.0	0.9	0.9	0.9
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
(N)	(4008)	(5440)	(9448)	(4012)	(5642)	(9654)	(940)	(1373)	(2313)	(3392)	(4829)	(8221)



# Ethnicity

(N) Ethnicity	CoMedCa (9450)	WaiMedCa (9656)	NatMedCa (Waikato) (2321)	NatMedCa (all) (8276)
New Zealand European	84.4	79.7	71.5	75.5
Maori	13.0	16.2	18.7	11.8
Pacific Islander	1.2	1.3	2.0	3.8
Other	1.5	2.7	7.9	8.9
<b>Total</b>	100%	100%	100%	100%

# Relationship with Practise

	CoMedCa	WaiMedCa		NatMedCa (Waikato)		NatMedCa (all)	
	% New To Dr (N=9326)	% New to Dr (N=9557)	% New to Practice (N=9271)	% New to Dr (N=2302)	% New to Practice (N=2306)	% New to Dr (N=8223)	% New to Practice (N=8237)
<1	14.1	15.3	9.8	26.2	16.8	24.8	16.2
1-5	11.9	12.5	5.9	13.0	6.9	12.5	5.8
5-14	13.8	13.4	4.6	17.3	6.5	15.9	8.2
15-24	13.2	18.2	8.7	23.2	14.9	24.1	16.3
25-34	11.0	15.6	8.8	18.0	11.1	17.6	11.7
35-44	9.1	14.4	7.1	10.9	6.1	12.7	8.0
45-54	6.6	9.9	3.7	13.1	6.9	11.0	6.5
55-64	7.5	9.8	4.4	14.2	6.2	11.1	5.1
65+	5.6	7.2	2.4	4.3	1.9	4.4	2.3
Missing	9.0	-	-	8.0	8.0	14.7	13.8

## Number of visits in the past 12 months

Number	WaiMedCa	NatMedCa (Waikato)	NatMedca (all)
1	3.4	16.4	16.9
2	7.6	9.4	9.7
3	9.8	10.6	10.5
4	10.7	10.4	10.6
5	12.0	7.9	8.3
6	8.8	9.0	9.3
7	10.4	5.0	4.5
8	5.2	6.5	6.0
9	6.4	2.9	3.0
>9	25.6	21.8	21.3
Total	100%	100%	100%
(N)	(8408)	(2241)	(8038)
Maximum	137	90	163
Mean	7.6	6.6	6.6

# Practitioner-reported rapport

Rapport	WaiMedCa	NatMedCa (Waikato)	NatMedCa (all)
1. Low	1.6	1.7	1.4
2. Medium	44.8	34.6	31.5
3. High	53.7	63.7	67.1
Total	100%	100%	100%
(N)	(9403)	(2290)	(8144)

# Visit Characteristics

<b>Duration</b>	<b>WaiMedCa</b>	<b>NatMedCa (Waikato)</b>	<b>NatMedCa (all)</b>
Short: ≤10 minutes	15.9	40.3	37.7
Medium: 11-15 minutes	65.3	37.5	36.9
Long: >15 minutes	18.8	22.2	25.5
Total	100%	100%	100%
(N)	(9225)	(2321)	(8276)

<b>Severity</b>	<b>CoMedCa</b>	<b>NatMedCa (Waikato)</b>	<b>NatMedCa (all)</b>
Life Threatening	11.0	2.3	2.0
Intermediate	44.3	41.3	41.0
Self-Limiting	35.3	33.3	34.4
None/NA	9.5	23.1	22.6
Total	100%	100%	100%
(N)	(9025)	(2273)	(8138)

# Problems Identified and Managed

Number of problems	CoMedCa	WaiMedCa	NatMedCa (Waikato)
0	1.9	1.3	0.1
1	62.9	65.5	56.9
2	26.7	24.0	27.1
3	8.6	9.3	10.2
4	n/a	n/a	5.8
total	100%	100%	100%
(N)	9450	9656	2321
Mean Number of Problems	1.4	1.4	1.6

## Number of Problems: Age and Gender Specific Rates

		All Ages	<25	25-44	45-64	65+
CoMedCa	Male (N=4008)	113	131	132	155	157
	Female (N=5440)	144	138	141	153	169
WaiMedCa	Male(N=4012)	116	132	132	145	162
	Female(N=5642)	143	132	136	153	165
NatMedCa (Waikato)	Male(N=940)	130	135	144	170	186
	Female (N=1373)	172	148	169	196	192

# Seasonal Variation

Problem Grouping (READ2 chapter)	March-May (Autumn)			June- August (Winter)		
	CoMedCa	WaiMedCa	NatMedCa (Waikato)	CoMedCa	WaiMedCa	NatMedCa (Waikato)
Injury/Poison	9.7	11.4	8.2	8.9	9.1	7.5
Respiratory	17.5	19.4	12.2	18.2	24.7	21.1
Nervous System/Sense Organs	7.6	7.2	7.1	8.5	11.3	10.0
Cardiovascular System/circulatory	8.0	7.8	8.8	7.6	6.8	7.5
Skin/subcutaneous tissue	7.0	7.3	6.7	7.6	5.3	5.4
Digestive System	3.4	3.5	5.4	3.6	2.9	4.1
Actions/Investigations	16.6	14.5	16.9	16.6	13.6	13.8
Infectious/parasitic	5.5	7.0	4.9	6.0	6.2	4.6
Cancer/Neoplasms	1.1	1.7	2.3	1.1	1.4	1.7
Endocrine/nutritional/metabolic/immunity	3.5	2.5	4.1	3.0	2.6	3.1
Musculoskeletal/Connective Tissue	5.5	4.8	7.1	5.0	5.1	4.6
Symptoms non specific	4.8	4.3	3.5	4.9	3.7	4.1
Mental	4.2	3.2	4.5	3.9	3.0	4.0
Genito-Urinary	4.1	3.2	4.9	3.9	3.0	4.3
Pregnancy/Childbirth/puerperium	0.4	0.8	0.6	0.3	0.3	1.2
Congenital	0.4	0.4	0.1	0.3	0.2	0.4
Total	100	100	100	100	100	100
(N)	2477	2386	489	2388	1275	772



Problem Grouping (READ2 chapter)	September-November (Spring)			December-February (Summer)		
	CoMedCa	WaiMedCa	NatMedCa (Waikato)	CoMedCa	WaiMedCa	NatMedCa (Waikato)
Injury/Poison	10.0	10.7	7.2	10.6	10.1	10.8
Respiratory	15.2	19.1	12.4	16.0	14.8	10.6
Nervous System/Sense Organs	8.4	10.3	10.6	8.4	8.6	9.3
Cardiovascular System/circulatory	8.2	8.5	9.8	8.7	9.1	10.0
Skin/subcutaneous tissue	6.9	6.2	6.6	7.5	7.8	9.3
Digestive System	3.5	3.4	4.3	3.3	3.7	4.6
Actions/Investigations	16.3	12.2	14.6	16.5	13.4	13.8
Infectious/parasitic	6.1	6.8	6.0	5.4	6.2	3.8
Cancer/Neoplasms	1.2	2.6	1.7	1.3	2.3	2.1
Endocrine/nutritional/metabolic/immunity	3.2	2.9	3.5	2.7	3.7	3.9
Musculoskeletal/Connective Tissue	5.4	5.3	5.4	5.0	5.9	5.4
Symptoms non specific	5.2	4.3	4.7	4.6	5.3	3.4
Mental	4.8	2.8	4.2	4.6	3.6	4.9
Genito-Urinary	4.0	3.8	3.9	3.8	3.8	3.9
Pregnancy/Childbirth/ puerperium	0.4	0.3	1.1	0.3	0.2	0.7
Congenital	0.5	0.6	0.2	0.4	0.7	0
Total	100	100	100	100	100	100
(N)	2432	3729	603	2153	2230	457

# Laboratory Tests and Investigations

Rate per 100 visits at which tests and investigations were ordered

	WaiMedCa	NatMedCa (Waikato)
Full Blood Count	5.3	10.2
Erythrocyte Sedimentation Rate	3.4	3.2
Serum Glucose	2.2	4.8
Creatinine/Urea	3.1	5.9
Liver Function	2.3	5.6
Lipids	1.9	3.7
Throid Function	1.6	4.1
Other	5.1	6.4
(N)	9656	2321

Any test/investigation; Age- and Gender- specific rates (per 100 visits)

	All Ages	<25	25-44	45-64	65+
<b>WaiMedCa</b>					
<i>Male (N=4012)</i>	6.2	2.0	6.9	9.6	12.4
<i>Female (N=5642)</i>	7.1	4.1	7.7	8.9	10.9
<b>NatMedCa (Waikato)</b>					
<i>Male (N=940)</i>	11.0	5.2	15.3	15.8	14.4
<i>Female (N=1373)</i>	12.3	6.6	13.4	16.6	16.3

# Pharmacological Treatment

Distribution of Drugs by groups, percentage of all prescriptions

	CoMedCa	WaiMedca	NatMedCa (Waikato)
16. Infectious-Agents for Systemic Use	35.7	28.6	23.4
22. Nervous System	11.7	10.7	17.7
28. Respiratory System and Allergies	11.8	11.1	10.7
10. Dermatologicals	10.5	8.6	5.6
19. Musculoskeletal System	3.4	8.1	6.8
1. Alimentary Tract and Metabolism	6.2	7.3	7.8
4. Blood and Blood-Forming Organs	2.0	3.2	6.1
13. Genito-Urinary System	2.0	4.4	4.6
38. Extemporaneously Compounded Preparations and Galenicals	7.1	2.0	1.4
7. Cardiovascular System	1.1	10.1	8.7
14. Systemic Hormone Preparations (exclu. Oral contraceptive)	0.7	3.0	5.0
31. Sensory Organs	7.5	2.8	2.0
Oncology Agents and Immunosuppressants	0.2	0.1	0.1
<b>Total</b>	100	100	100
<b>(N)</b>	9450	9656	2321

## Distribution of Drugs by groups, percentage of all visits

	CoMedCa	WaiMedCa	NatMedCa (Waikato)
<b>16. Infectious-Agents for Systemic Use</b>	13.1	15.0	24.8
<b>22. Nervous System</b>	4.3	5.6	18.7
<b>28. Respiratory System and Allergies</b>	4.3	5.8	11.3
<b>10. Dermatologicals</b>	3.8	4.5	5.9
<b>19. Musculoskeletal System</b>	1.2	4.3	7.2
<b>1. Alimentary Tract and Metabolism</b>	2.3	3.8	8.3
<b>4. Blood and Blood-Forming Organs</b>	0.7	1.7	6.5
<b>13. Genito-Urinary System</b>	0.7	2.3	4.9
<b>38. Extemporaneously Compounded Preparations and Galenicals</b>	2.6	1.0	1.4
<b>7. Cardiovascular System</b>	0.4	5.3	9.2
<b>14. Systemic Hormone Preparations (exclu. Oral contraceptive)</b>	0.3	1.6	5.3
<b>31. Sensory Organs</b>	2.8	1.5	2.1
<b>Oncology Agents and Immunosuppressants</b>	0.1	0.0	0.1
(N)	9450	9656	2321

## Anti-infective drugs: age- and gender-specific rates per 100 visits.

		All Ages	<25	25-44	45-64	65+
<b>CoMedCa</b>	Male (N=4008)	14.8	20.3	10.9	9.1	7.9
	Female (N=5440)	11.8	15.8	8.6	9.1	8.3
<b>WaiMedCa</b>	Male (N=4012)	15.7	21.5	13.7	10.4	8.7
	Female (N=5642)	14.5	20.4	12.6	12.7	7.0
<b>NatMedCa (Waikato)</b>	Male (N=940)	25.3	41.5	21.5	14.2	10.8
	Female (N=1373)	22.0	38.8	19.4	15.3	12.8

# Non-Drug Treatments

	All Ages	<25	25-44	45-64	65+
<b>CoMedCa</b>					
<b>Male</b>	37.2	18.7	22.6	21.1	24.2
<b>(N)</b>	3970	1833	895	682	419
<b>Female</b>	44.5	23.7	29.3	23.6	19.6
<b>(N)</b>	5361	2338	1434	779	546
<b>WaiMedCa</b>					
<b>Male</b>	40.0	25.6	28.1	27.4	23.9
<b>(N)</b>	5642	1712	891	712	697
<b>Female</b>	42.9	27.6	31.9	26.0	27.6
<b>(N)</b>	4012	2043	1637	988	974

# Disposition

	CoMedCa	WaiMedCa
Any Disposition	78.6	81.9
Return at Specified Time	41.5	33.1
Return as Necessary	29.5	41.0
Telephone Follow Up	2.4	4.2
Referred to A and E	0.4	0.7
Admitted to Hospital	0.4	0.7
Referred to Outpatients	2.2	2.9
Referred to Private Specialist	3.1	2.9
Other Disposition	2.1	2.8
(N)	9203	9656



## Age Specific Rates of Disposition

CoMedCa	All Ages	<25	25-44	45-64	65+
Any Disposition	78.6	78.6	83.6	88.6	89.7
Return at specified time	41.5	33.4	41.5	51.3	59.7
Return as necessary	29.5	31.6	30.2	26.4	23.7
Telephone Follow Up	2.4	2.5	2.6	2.1	1.4
Referred to A&E	0.4	0.6	0.3	0.1	0
Admitted to hospital	0.4	0.5	0.1	0.7	0.3
Referred to outpatients	2.2	2.0	1.9	3.0	2.3
Referred to private specialist	3.1	2.0	3.4	5.3	3.2
Other disposition	2.1	1.6	2.9	2.2	1.9
(N)	9036	4216	2367	1480	973
<b>WaiMedca</b>					
Any Disposition	81.9	77.0	83.6	84.6	88.3
Return at specified time	33.1	25.0	34.0	37.9	45.3
Return as necessary	41.1	44.3	40.0	38.9	37.4
Telephone Follow Up	4.2	3.1	5.2	3.8	4.4
Referred to A&E	0.7	0.8	0.8	0.4	0.6
Admitted to hospital	0.7	0.6	0.8	0.6	0.5
Referred to outpatients	2.9	2.4	3.1	3.1	3.4
Referred to private specialist	2.9	2.7	3.5	3.4	2.2
Other disposition	2.8	2.1	3.9	3.3	2.0
(N)	9656	3757	2528	1700	1671

# Conclusion

Thank you