

香 港



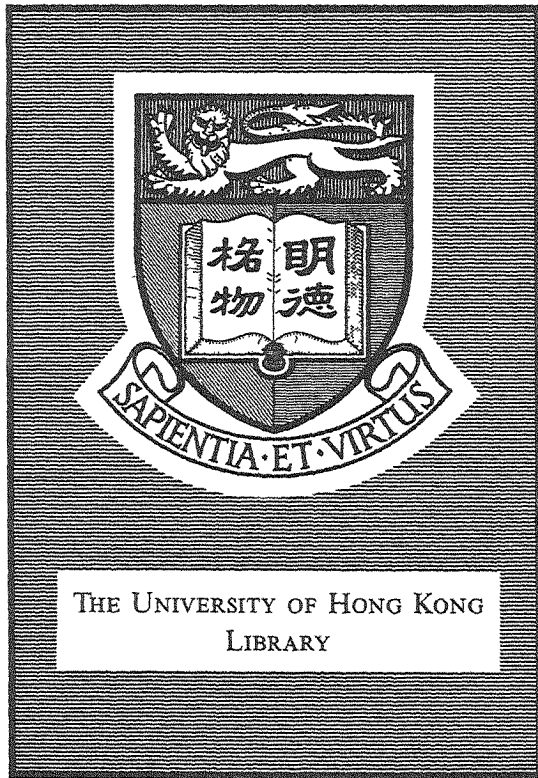
大 學

**THE UNIVERSITY  
OF HONG KONG**

# 1997 CLINICAL REPORT

**The Department of  
Obstetrics & Gynaecology  
Queen Mary Hospital &  
Tsan Yuk Hospital**

MRF  
618.021  
U5



THE UNIVERSITY OF HONG KONG  
LIBRARY

## **MESSAGE FROM THE HEAD OF THE DEPARTMENT**

Audit of clinical service plays an important part in continuous quality improvement. This year, we have included the statistics of the various specialist and subspecialist clinics. I would like to thank Dr TC Pun and Dr W To for their effort in putting all the data of the service together to produce this report. I would also like to thank Ms A Yeung, Ms P Chau and her team, Ms T Poon and all the other staff in their contribution to the production of this report. Finally, I also express my appreciation to Ms Miranda Tang for her excellent secretarial support.

**Pak-Chung Ho**  
**Professor and Chair**

## CONTENTS

List of medical staff	1
Obstetrics Report	
Comparative statistics	6
Statistical summary	8
Patients' characteristics	10
Congenital anomaly, cardiac diseases, diabetes mellitus	11
Blood/renal/liver/respiratory/gastrointestinal/gall bladder diseases, epilepsy and other neurological diseases	12
Psychiatric/autoimmune/thyroid/surgical/malignant and sexually transmitted diseases	13
Other infections and other associated conditions	14
Hypertension in pregnancy	15
Antepartum haemorrhage	16
Preterm deliveries	17
Multiple gestation	18
Postpartum haemorrhage, manual removal of placenta	19
Postpartum anaemia	20
Puerperal pyrexia and other complications	21
Types of labour	22
Induction of labour	23
Indications for induction	24
Obstetric analgesia during labour	25
Pregnancy following previous caesarean sections	26
Breech presentation	27
Malpresentation other than breech presentation	28
Prolapse and presentation of umbilical cord	29
Mode of operative delivery	30
Indications for assisted delivery	31
Apgar scores at birth versus mode of delivery	32
Perinatal data	33
Summary of fetal loss	34
Survival and gestational age	35
Survival and birth weight	36
Outcome of VLBW babies and functional maturity	37
Causes of stillbirths	38
Causes of neonatal deaths	39
Birth trauma	40
Congenital malformations	41
Other neonatal complications	43

## Gynaecology Report

Comparative statistics	45
Outpatients statistics	47
Admissions and discharges statistics	50
Statistical summary	51
<b>Diagnosis</b>	
diseases of vulva, perineum,urethra/vagina	53
diseases of uterine cervix/uterine body	54
diseases of fallopian tubes/ovary	55
diseases of broad ligaments and pelvic peritoneum/menstruation; genital displacement and urinary problems	56
disorders of pregnancy and reproduction	57
complications in pregnancy	58
miscellaneous gynaecological/miscellaneous conditions	59
<b>Treatment</b>	
major abdominal surgery for benign conditions	60
major abdominal surgery for malignant conditions	61
major vaginal/major vulval operations and endoscopic procedures	62
colposcopy related/assisted reproduction procedures	63
minor abdominal operations	64
other minor operations	65
radiotherapy, other forms of treatment	66
<b>Complications</b>	
complication rates in relation to common operations	67
breakdown of various complications in relation to common surgery	68
<b>List of Abbreviations</b>	69



**Consultant Obstetrician & Gynaecologist :**

Dr. C.P. Lee	M.B.,B.S. (H.K.); M.R.C.O.G.; F.H.K.A.M. (O&G)
Dr. T.C. Pun	M.B.,B.S. (H.K.); M.R.C.O.G.; F.H.K.A.M. (O&G) (from July, 1997)
Dr. W.W.K. So	B.Sc; M.B.,B.S. (H.K.); F.R.C.O.G.; F.H.K.A.M. (O&G)
Dr. M.H.Y. Tang	M.B.,B.S. (H.K.); M.R.C.O.G.; F.H.K.A.M. (O&G)

**Assistant Professors, Lecturers, Obstetricians & Gynaecologists :**

Dr. D.K.L. Cheng	M.B.,B.S. (N.S.W.); F.R.A.C.O.G.; F.H.K.A.M. (O&G)
Dr. Y.H. Lam	M.B.,B.S. (H.K.); M.R.C.O.G.; F.H.K.A.M. (O&G)
Dr. T.Y. Ng	M.B.,B.S. (Sing.); M.MEd. (Sing.); M.R.C.O.G.; F.H.K.A.M. (O&G)

**Senior Medical Officers, Obstetricians & Gynaecologists :**

Dr. C.T. Lau	M.B.,B.S. (H.K.); M.R.C.O.G.; F.H.K.A.M. (O&G)
Dr. W.C. Leung	M.B.,B.S. (H.K.); M.R.C.O.G.; F.H.K.A.M. (O&G)
Dr. W.K. To	M.B.,B.S. (H.K.); M.R.C.O.G.; F.H.K.A.M. (O&G)
Dr. W.M. Wong	M.B.,Ch.B. (H.K.); M.R.C.O.G.; D.C.H.; F.H.K.A.M. (O&G)



**Assistant Professors and Medical Officers :**

Dr. B.C.P. Chan	M.B.,B.S. (H.K.)
Dr. C.C.W. Chan	M.B.,B.S. (H.K.)
Dr. P.L. Chan	M.B.,B.S. (H.K.)
Dr. Y.M. Chan	M.B.,B.S. (H.K.); M.R.C.O.G.; F.H.K.A.M. (O&G)
Dr. H.K. Cheung	M.B.,B.S. (H.K.)
Dr. E. Hon	BSc., M.B.,B.S. (Lond.)
Dr. H.S.W. Lam	M.B.,B.S. (H.K.); M.R.C.O.G.
Dr. K.W. Lam	M.B.,B.S. (H.K.)
Dr. I. Li	M.B.,B.S. (H.K.)
Dr. W.N.T. Lau	M.B.,B.S. (H.K.); M.R.C.O.G.
Dr. S.S.L. Lee	M.B.,B.S. (H.K.); M.R.C.O.G.
Dr. T.W. Leung	M.B.,B.S. (H.K.)
Dr. T. Li	M.B.,Ch.B. (H.K.)
Dr. K.L. Liu	M.B.,Ch.B. (Dundee); D.R.C.O.G.; M.R.C.O.G.
Dr. C.S.W. Ngai	M.B.,B.S. (H.K.); M.R.C.O.G.
Dr. K.F. Tam	M.B.,B.S. (H.K.); M.R.C.O.G.
Dr. F.O.S. Tang	M.B.,B.S. (H.K.); M.R.C.O.G.
Dr. G.C.Y. Wong	M.B.,B.S. (H.K.); M.R.C.O.G.

**Neonatologist in charge :**

Professor C.Y. Yeung	M.B.,B.S. (H.K.); D.C.H. (London); F.R.A.C.P.; L.M.C.C.; Dip.Am.Board; C.R.C.P. (Hon) Can.; F.R.C.P. (Edin.,Glasgow,Canada, London, Ireland)
Chief of Service and Head, Department of Paediatrics, University of Hong Kong	

**Consultant Neonatologists :**

Dr. B. Lam	M.B.,B.S. (H.K.); M.R.C.P. (U.K.); F.H.K.A.M. (Paed.)
Dr. N.S. Tsoi	M.B.,B.S. (H.K.); D.C.H. (Lond.); M.R.C.P. (U.K.); F.H.K.A.M. (Paed.)



**Consultant Anaesthesiologist :**

Dr. S.J. Wong M.B.,B.Ch. (Dub.); F.A.N.Z.C.A.; F.H.K.A.M. (Anaes.); F.F.A.R.A.C.S.; F.H.K.C.A.

Dr. R.J.W. Lo M.B.,B.S. (H.K.); M.Med.; F.A.N.Z.C.A.; F.F.I.C.A.N.Z.C.A.; F.H.K.C.A.; F.H.K.A.M. (Anaes.)

**Consultant Dermatologist :**

Dr. K.K. Lo M.B.,B.S. (H.K.); Dip.Derm. (Lond.); M.R.C.P. (U.K.); F.H.K.A.M. (Med.)

**Consultant Pathologist :**

Prof. P.C. Lau Wu M.B.,B.S.,M.D. (H.K.); F.R.C.Path; F.R.C.P.A.; F.H.K.C.Path; F.H.K.A.M. (Path.)

Dr. P. Dickens M.B.,B.S.(Newcastle-upon-Tyne); D.M.J. (Lond.); F.R.C.P.(Can.); F.R.C.Path.; F.H.K.C.Path.; F.H.K.A.M.(Path.)

Dr. W.P. Mak M.B.,B.S. (H.K.); F.R.C.Path (U.K.); F.H.K.A.M. (Path.); J.P.

**Consultant Physician :**

Professor S.K. Lam M.D. (H.K.); F.R.C.P.; F.R.C.P.(E); F.R.C.P. (G); F.A.C.P.; F.A.C.G.; F.R.A.C.P.; F.H.K.A.M. (Med.); F.H.K.C.P.

**Consultant Psychiatrist :**

Professor F. Lieh-Mak O.B.E.; M.D. (Santo Tomas); L.A.H. (Dublin); F.R.C.Psych.; F.R.A.N.Z.C.P.; J.P.; F.H.K.A.M. (Psychiatry); F.A.P.A.

**Consultant Radiologist :**

Dr. F.L. Chan M.B.,B.S. (H.K.); F.R.C.R.; D.M.R.D.; F.H.K.A.M. (Radiology); F.H.K.C.R.

**Consultant Surgeon :**

Professor J. Wong B.Sc. (Med); M.B.,B.S., Ph.D., Hon M.D. (Syd.); F.R.A.C.S.; F.R.C.S. (Edin. & Glas.); F.A.C.S. (Hon.); F.H.K.A.M.(Surgery)

**OBSTETRICS**

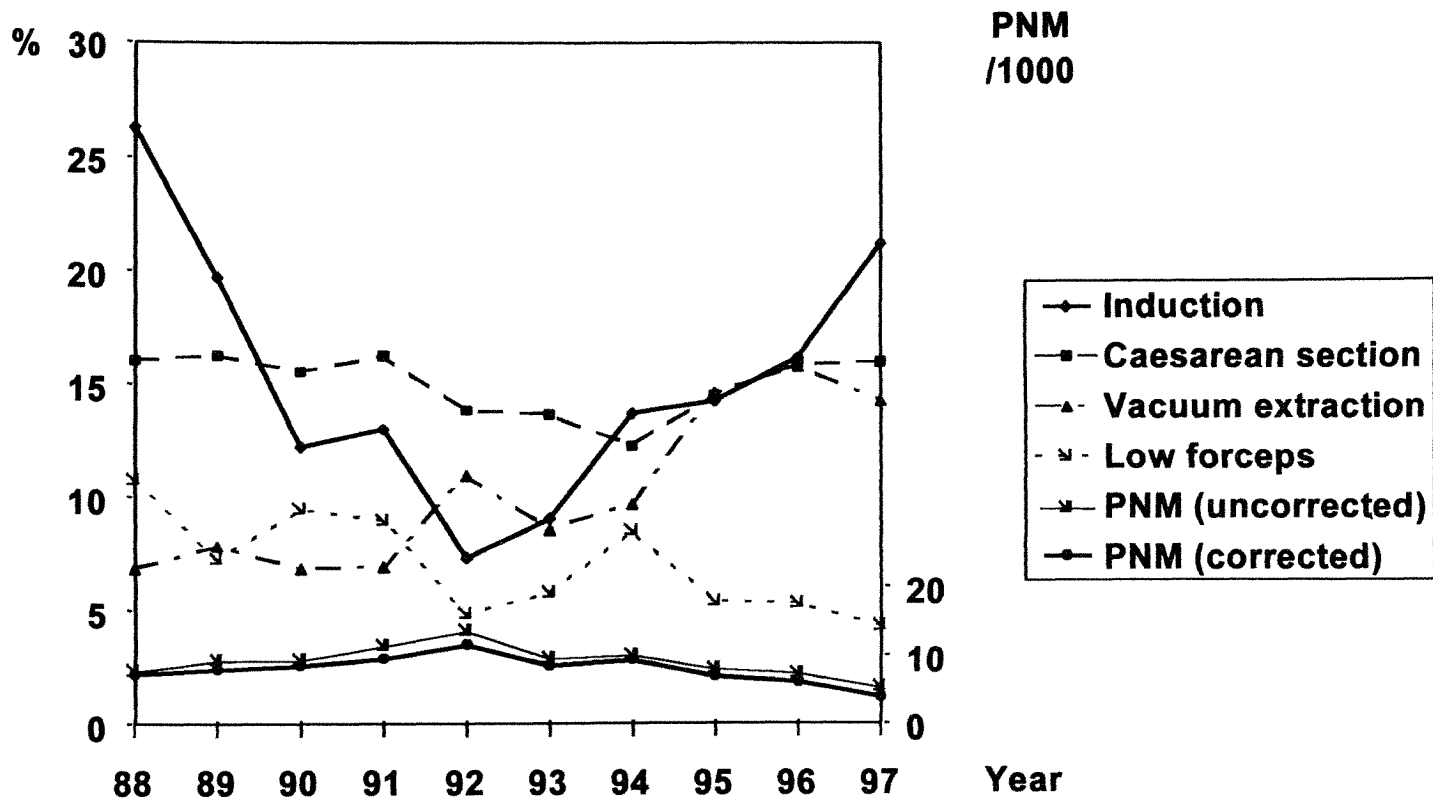
**STATISTICS**

## COMPARATIVE STATISTICS (1988 - 1997)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
TOTAL PATIENTS DELIVERED	5347	5086	4190*	3428*	3435*	5393	5108	5023	5205	4861
PRIMIPARAE	2709	2559	1943	1621	1783	2728	2712	2597	2747	2555
MULTIPARAE	2638	2527	2247	1807	1652	2665	2396	2426	2458	2306
PREGNANCY INDUCED HYPERTENSION	384	313	195	196	120	141	159	136	150	106
ECLAMPSIA	4	3	--	1	0	1	4	1	1	3
ACCIDENTAL HAEMORRHAGE	20	16	16	16	13	10	24	20	33	32
PLACENTA PRAEVIA	65	42	32	40	22	39	28	46	54	45
POSTPARTUM HAEMORRHAGE	75	96	119	115	147	141	241	158	140	117
INDUCTION OF LABOUR(%)	26.3	19.7	12.2	13.0	7.3	9.0	13.7	14.2	16.1	21.1
VACUUM EXTRACTION(%)	6.8	7.8	6.8	6.9	10.9	8.5	9.6	14.5	15.7	14.2
FORCEPS DELIVERY(%)	10.7	7.2	9.4	8.9	4.8	5.7	8.4	5.3	5.2	4.3
CAESAREAN SECTION(%)	16	16.2	15.5	16.2	13.8	13.6	12.2	14.4	15.8	15.9
MATERNAL DEATHS	1	1	0	1	0	0	2	1	2	0.0
INFANTS BORN IN HOSPITAL	5364	5077	4200	3400	3418	5420	5137	5063	5249	4914
INFANTS BORN BEFORE ADMISSION	30	53	45	58	53	34	28	24	26	16
TOTAL INFANTS BORN	5394	5130	4245	3458	3471	5454	5165	5087	5275	4930
STILLBIRTH RATE (PER 1000 TOTAL DELIVERIES)	3.8	4.4	4.0	4.6	7.8	5.9	5.8	4.9	4.2	4.1
NEONATAL DEATH RATE (PER 1000 LIVEBIRTHS)	4.4	6.6	6.2	7.0	7.8	4.6	5.3	4.2	3.8	1.4
PERINATAL DEATH RATE (PER 1000 LIVEBIRTHS)	7.6	9.1	9.2	11.3	13.5	9.4	9.9	7.9	7.2	5.3
CORRECTED PERINATAL DEATH RATE (EXCLUDING NON-BOOKED CASES WITH IUD ON ADMISSION)	7.2	7.9	8.5	9.5	11.5	8.4	9.3	6.9	6.1	3.9

\* Reduction in deliveries due to renovation work.

## INTERFERENCE RATES & PERINATAL MORTALITY 1988-1997



## STATISTICAL SUMMARY

	Tsan Yuk Hospital	Queen Mary Hospital Tang Chi Ngong QMH	
<b>Obstetric Clinic Attendance</b>			
Antenatal new cases	4079	159	457
Antenatal follow-up cases	17608	767	3357
Postnatal cases	1277	190	427
Postnatal follow-up cases	299	-	-
Combined diabetic clinic	-	-	217
Second Trimester Routine Scan	2346	-	-
<b>Day Centre Attendance</b>			
Cardiotocogram	1581	231	
Oral glucose tolerance test	2864	199	
Sugar profile	711	-	
Blood pressure monitoring	171	-	
Removal of stitches	2613	-	
Wound inspection	174	-	
Miscellaneous	199	-	
<b>Deliveries</b>			
Booked	4146	715	
Primiparae	4038	572	
Multiparae	2139	297	
Non-booked	1899	275	
Primiparae	108	143	
Multiparae	48	71	
Multiparae	60	72	
Total number of patients delivered			4861
Maternal deaths			0
Maternal death rate (/1000 cases delivered)			0
Total number of multiple pregnancies			61
Total number of babies born			4930
Total number born in hospital			4914
Total number born before admission			16
Total number of live born infants			4910

<b>Stillbirths</b>	
<b>Total</b>	<b>20</b>
<b>Booked</b>	<b>12</b>
<b>Non-booked</b>	<b>8</b>
<b>Stillbirth rate (/1000 total births)</b>	
<b>Total</b>	<b>4.1</b>
<b>Booked</b>	<b>2.6</b>
<b>Non-booked</b>	<b>31.0</b>
<b>Neonatal deaths</b>	
<b>Total</b>	<b>7</b>
<b>Booked</b>	<b>5</b>
<b>Non-booked</b>	<b>2</b>
<b>Neonatal death rate (/1000 livebirths)</b>	
<b>Total</b>	<b>1.4</b>
<b>Booked</b>	<b>1.1</b>
<b>Non-booked</b>	<b>7.8</b>
<b>Perinatal deaths</b>	
<b>Total</b>	<b>26</b>
<b>Booked</b>	<b>16</b>
<b>Non-booked</b>	<b>10</b>
<b>Perinatal death rate (/1000 total births)</b>	
<b>Total</b>	<b>5.3</b>
<b>Booked</b>	<b>3.4</b>
<b>Non-booked</b>	<b>38.8</b>
<b>Corrected perinatal mortality rate</b>	<b>3.7</b>
<b>(excluding non-booked cases with IUD on admission)</b>	

## PATIENTS' CHARACTERISTICS

Ethnic origin:		Number	%
	Chinese	4091	84.2
	Non-Chinese	770	15.9
Age(years):	Primiparous	28.3	
	Multiparous	31.4	
	All	29.8	
Parity at booking:		Number	%
	Primiparous	2555	52.6
	Multiparous	2306	47.5
Average height(cm):		156	
Average pre-pregnant weight(kg):		54	
Education level:		Number	%
	None	170	3.5
	Primary	523	10.8
	Secondary	3212	66.1
	Tertiary	845	17.4
Smoking habit:		Number	%
	Nonsmokers	4404	90.6
	=<20 per day	173	3.6
	>20 per day	1	0.0
Average family income(HK\$x1000):			19.3



## CONGENITAL ANOMALY OF GENITAL AND URINARY TRACT

Total number	11
Incidence (%)	0.2

## CARDIAC DISEASES

	Number	%
Rheumatic heart disease	33	0.7
Congenital heart disease	5	0.1
Mitral valve prolapse	4	0.1
Arrhythmia	14	0.3
Others	87	1.8

## GESTATIONAL DIABETES\* & PRE-EXISTING DIABETES MELLITUS

	Gestational DM*		Pre-existing
	IGT#	DM#	DM
Total number	592	52	13
Incidence(%)	12.2	1.1	0.3
Total no of babies	605	52	13
Number of CS	122	15	6
Stillbirth	2	0	1
Neonatal death	1	0	0
Perinatal death	3	0	1
Large for date babies (%)	92 (15.2)	12 (23.1)	6 (46.2)
Small for date babies (%)	41 ( 6.8)	4 ( 7.7)	0 ( 0)

\* According to the Second International Workshop Conference on Gestational Diabetes(1985)

# According to the WHO criteria(1980)

## **BLOOD DISORDERS**

	Number	%
Anaemia	254	5.2
Iron deficiency	119	2.5
Alpha-thalassaemias	170	3.5
Beta-thalassaemias	83	1.7
Iron deficiency and thalassaemias	19	0.4
Others	58	1.2

## **RENAL DISEASES**

Total number	27
Incidence (%)	0.6

## **LIVER DISEASES**

Total number	1
Incidence (%)	0.0

## **RESPIRATORY DISEASES**

Total number	36
Incidence (%)	0.8

## **GASTROINTESTINAL/GALL BLADDER DISEASES**

Total number	6
Incidence (%)	0.1

## **EPILEPSY**

Total number	4
Incidence (%)	0.1

## **OTHER NEUROLOGICAL DISEASES**

Total number	10
Incidence (%)	0.2

## **PSYCHIATRIC DISEASES**

Total number	14
Incidence (%)	0.3

## **AUTOIMMUNE DISEASES**

Total number	20
Incidence (%)	0.4

## **THYROID DISEASES**

Total number	74
Incidence(%)	1.5

## **SURGICAL DISEASES**

Total number	18
Incidence (%)	0.4

## **MALIGNANT DISEASES**

Total number	2
Incidence (%)	0.0

## **SEXUALLY TRANSMITTED DISEASES**

Total number	36
Incidence(%)	0.7

Types	Cases
Syphilis	8
Gonorrhoea	0
Herpes simplex	0
Condyloma acuminata	2
Chlamydia trachomatis	18
Combination of above/others	8

## **OTHER INFESTATIONS/INFECTIONS**

Total number	825
Incidence (%)	17.0

Types	Cases
Moniliasis	620
Trichomoniasis	7
Combination/others	198

## **OTHER ASSOCIATED CONDITIONS**

	Cases	%
Hyperemesis gravidarum	3	0.1
Skin diseases	14	0.3
Kyphoscoliosis	0	0.0
Incompetent os	4	0.1
Drug addiction	6	0.1
Rhesus negative mothers	32	0.7
Others	141	2.9

## HYPERTENSION IN PREGNANCY\*

Total number	139
Incidence (%)	2.9
Primiparous	89
Multiparous	50

Type	Cases	Induction of labour	Caesarean# section	SB#	NND#	PND#
Gestational HT	53	40	15	0	0	0
G. Proteinuria	7	3	4	0	0	0
G. P. HT	46	24	37	0	0	0
Chronic HT	16	6	6	0	0	0
C. HT with PET	8	4	5	1	0	1
Unclassified HT/P	6	2	1	0	0	0
Eclampsia	3	1	3	0	0	0

Perinatal Mortality = 6.7/1000 total births

\* according to Davey & MacGillivray (1988)

# No of babies

## ANTEPARTUM HAEMORRHAGE

Total number of cases	253
Incidence (%)	5.2

### Mode of delivery of fetus versus types of antepartum haemorrhage\*

Mode of delivery	Placenta praevia	Accidental haemorrhage	APH of ? origin	Extra placental
Spontaneous	2	11	107	3
Vacuum extraction	1	1	33	0
Low forceps	0	1	4	0
Vaginal Breech	0	0	1	0
Elective CS	10	0	9	0
Emergency CS	35	19	22	2
Total	48	32	176	5

### Outcome of fetus versus causes of antepartum haemorrhage\*

Outcome	Placenta Praevia	Accidental haemorrhage	APH of ? origin	Extra placental
Stillbirth	0	2	1	0
Neonatal death	0	1	1	0
Perinatal death	0	3	2	0

\*No of babies

## PRETERM DELIVERIES

Total number of cases			384
Incidence (%)			7.8
<b>Parity</b>	<b>Total</b>	<b>Cases</b>	<b>%</b>
Primiparous	2599	217	8.4
Multiparous	2331	167	7.2
<b>Outcome</b>		<b>Cases</b>	<b>Rate</b>
Stillbirth-ante partum		6	15.6
Stillbirth-intra partum		4	10.4
Stillbirth-undetermined		1	2.6
Neonatal death		6	16.1
Perinatal death		17	44.3
<b>Mode of delivery</b>		<b>Cases</b>	<b>%</b>
Spontaneous vaginal delivery		181	47.2
Vacuum extraction		19	5.0
Low forceps		21	5.5
Vaginal breech delivery		15	3.9
Elective caesarean section		32	8.3
Emergency CS & others		116	30.2
<b>Birth weight</b>		<b>Cases</b>	<b>%</b>
<2500 g		234	60.9
<1500 g		57	14.8
<1000 g		26	6.8
<b>Number of pregnancies</b>	<b>Total</b>	<b>Cases</b>	<b>%</b>
Singleton	4800	310	6.5
Multiple pregnancies	130	74	56.9

## NEONATAL COMPLICATIONS

	<b>Cases</b>	<b>%</b>
Admission to ICU >24 hours	48	12.5
Congenital abnormality	12	3.1
Major infection	4	1.0
Respiratory distress syndrome	2	0.5
Intraventricular haemorrhage	1	0.3
Necrotising enterocolitis	0	0.0



## MULTIPLE GESTATION

Total number	61
Incidence (%)	1.3
Primiparous	39
Multiparous	22
Twins	53
Triplets	7
Quadruplets and higher order	1
Total number of babies	130
Preterm < 37 weeks	74
> = 37 weeks	56
Induced labour	11
Incidence of induced labour	18.0

### Mode of delivery versus birthorder

	1st baby	2nd baby	3rd baby
Spontaneous vaginal	10	9	0
Vacuum extraction	2	1	0
Low forceps	8	4	0
Vaginal breech delivery	0	6	0
Other vaginal delivery	17	17	3
Caesarean section & others	24	25	4

### Outcome of fetus versus birthorder

	1st baby	2nd baby*	3rd baby
Livebirths	61	62	7
Stillbirth - antepartum	0	0	0
Stillbirth - intrapartum	0	0	0
Stillbirth - undetermined	0	0	0
Neonatal death	0	0	0
Perinatal death	0	0	0

\* One leading twin delivered before transferal to our unit

## POSTPARTUM HAEMORRHAGE

Total number of cases	117
Incidence (%)	2.4
Primiparous	67
Multiparous	50

Types	Cases	%
Primary PPH	106	2.2
Secondary PPH	11	0.2

### Causes of Primary PPH

Causes	Cases
Uterine atony	44
Retained gestational product	25
Ruptured uterus	0
Cervical tear	4
Vaginal tear	9
Perineal wound	8
Genital haematoma	7
Uterine inversion	0
Consumptive coagulopathy	4
Others	5

### Causes of Secondary PPH

Causes	Cases
Retained gestational product	5
Genital tract infection	4
Others	2

## MANUAL REMOVAL OF PLACENTA

Total number of patients	66
Incidence (%)	1.4

## POSTPARTUM ANAEMIA\*

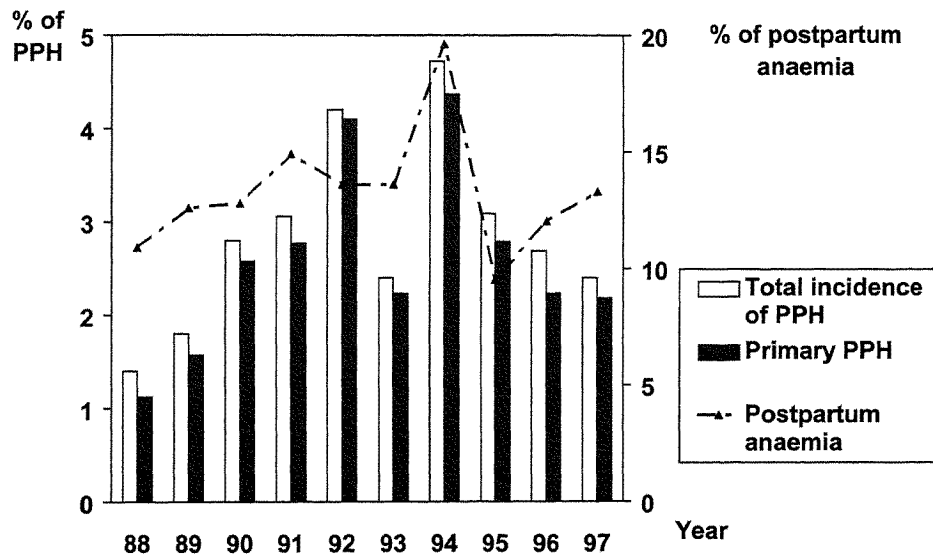
	Total	Cases	%
Primiparous	2555	382	15.0
Multiparous	2306	264	11.5
Total	4861	646	13.3

Mode of delivery #	Total	Cases	%
Spontaneous vaginal	3198	390	12.2
Vacuum extraction	698	130	18.6
Low forceps	209	39	18.7
Vaginal breech	42	2	4.8
Elective CS	222	23	10.4
Emergency CS	561	71	12.7

\*Patients with normal haemoglobin level (>10g%) before delivery but found to be anaemic (<10g%) after delivery.

# Number of babies

## POSTPARTUM HAEMORRHAGE and POSTPARTUM ANAEMIA



## **PUERPERAL PYREXIA**

Total number of patients			300
Incidence (%)			6.2
Primiparous			211
Multiparous			97
<b>Causes</b>			<b>Cases</b>
Reactionary			122
Breast problem			30
Urinary tract infection			38
Genital tract infection			55
Wound infection			10
Other causes			11
Unknown			47
<b>Mode of delivery</b>	<b>Total*</b>	<b>Cases*</b>	<b>Incidence</b>
Spontaneous vaginal delivery	3198	64	2.0
Vacuum extraction	698	34	4.3
Low forceps	209	13	6.2
Vaginal breech	42	0	0.0
Elective caesarean section	222	42	18.9
Emergency CS and others	561	155	27.6

\* No of babies

## **OTHER COMPLICATIONS**

	<b>Cases</b>	<b>%</b>
Third degree tear	1	0.0
Other genital tract trauma	23	0.5
Ruptured uterus without PPH	1	0.0
Hysterectomy	3	0.1

## TYPES OF LABOUR

### Outcome of fetus versus types of labour

Type	not in labour	spon. onset	augmented labour	induced labour	total
Total births	327	3148	418	1037	4930
Stillbirth rate/1000	1 3.1	8 2.5	0 0.0	11 10.6	20 4.1
NND rate/1000	1 1.6	5 2.4	1 1.0	1 1.4	7 2.0
PND rate/1000	2 6.1	12 3.8	1 2.4	12 11.6	26 5.3

### Mode of delivery versus types of labour

Mode of delivery	not in labour	spon. onset	augmented labour	induced labour	total
Total births	327	3148	418	1037	4930
Spontaneous vaginal (%)	0 0	2471 78.5	179 42.8	548 52.8	3198 64.9
Vacuum extract (%)	0 0	357 11.3	128 30.6	213 20.5	698 14.2
Low forceps (%)	0 0	128 4.1	28 6.7	53 5.1	209 4.2
Vaginal breech (%)	0 0	32 1.0	2 0.5	8 0.8	42 0.9
CS & others (%)	327 100	160 5.1	81 19.4	215 20.7	783 15.9

## INDUCTION OF LABOUR

Total number of patients			1027
Incidence (%)			21.1
Parity	Total	Cases	Incidence
Primiparous	2555	676	26.5
Multiparous	2306	351	15.2
Outcome of babies		Cases	
Stillbirth - antepartum		9	
Stillbirth - intrapartum		2	
Stillbirth - undetermined		0	
Neonatal deaths		1	
Perinatal deaths		12	
Mode of delivery		Cases	%
Spontaneous vaginal		549	52.9
Vacuum extraction		213	20.5
Low forceps		53	5.1
Vaginal breech		8	0.8
Caesarean section		215	20.7
Total*		1038	
Outcome of Induction#		Cases	%
Successful		886	86.3
Failure		141	13.7

\* No of babies

# Failure of induction is defined as absence of progressive cervical dilatation in the presence of regular uterine contractions

Indications for induction\*

Indications	Primiparae	Multiparae
Diabetes/impaired glucose tolerance	25	26
Maternal diseases	5	3
Bad obstetrical history	0	5
Past term	112	59
Hypertension associated with pregnancy	46	21
Premature rupture of membranes	311	122
Antepartum haemorrhage	20	15
Multiple pregnancies	0	5
Suspected IUGR	34	20
Intrauterine death	3	6
Fetal anomaly	4	1
Suboptimal non-stress test	51	17
Social reason	2	3
Others	138	86

\* There may be more than 1 indication for the induction of labour in a patient.

Induction delivery interval (mean)

8.5 hours

Induction delivery interval in whole group

	Number*	%
1-10 hours	710	68.4
11-20 hours	313	30.2
>20 hours	15	1.5

\* No of babies



## OBSTETRIC ANALGESIA DURING LABOUR

Patients with Intrapartum Epidural	730	
Primiparous	573	
Multiparous	157	
Epidural Rate	15%	
Number with induction of labour	346	(47.3%)
Mode of delivery		
Normal spontaneous	241	(33%)
Vacuum extraction	240	(33%)
Forceps delivery	61	(8.3%)
Vaginal breech delivery	7	(9.5%)
Caesarean section	181	(24.7%)

## PREGNANCY FOLLOWING PREVIOUS CAESAREAN SECTION

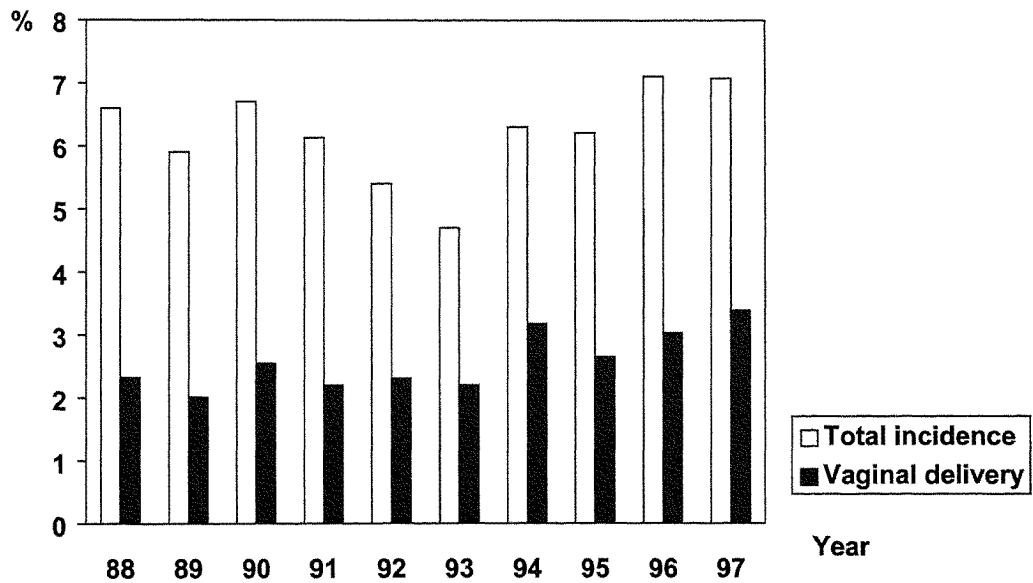
Total cases	344
Incidence (%)	7.1

Outcome of fetus	Cases*	Rate
Stillbirth	3	8.6
Neonatal death	1	2.9
Perinatal death	4	11.5

Mode of delivery	Cases*	%
Spontaneous vaginal delivery	107	30.8
Vacuum extraction	50	14.4
Low forceps	9	2.6
Vaginal breech delivery	1	0.3
Elective caesarean section	97	27.9
Emergency CS & others	84	24.1

\* No of babies

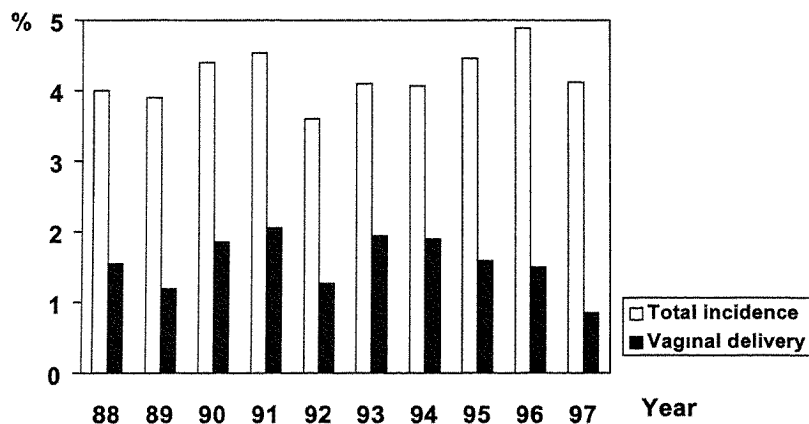
## PREGNANCY FOLLOWING PREVIOUS CAESAREAN SECTION



## BREECH PRESENTATION

Total number of cases			203
Incidence (%)			4.1
Parity	Total	Cases	%
Primiparous	2599	125	4.8
Multiparous	2331	78	3.4
Outcome		Cases	Rate
Stillbirth-ante partum		1	4.9
Stillbirth-intrapartum		2	9.9
Stillbirth-undetermined		0	0.0
Neonatal death		3	15.0
Perinatal death		6	29.6
Mode of delivery		Cases	%
Assisted breech delivery		38	18.7
Other vaginal breech delivery		4	2.0
Elective caesarean section		81	39.9
Emergency CS & others		80	39.4
Gestational age at delivery	Total	Cases	%
<37 weeks	384	57	14.8
37-40 weeks	3891	135	3.5
>40 weeks	649	11	1.7
Number of pregnancies	Total	Cases	%
Singleton	4800	167	3.5
Multiple pregnancies	130	36	27.7

## BREECH PRESENTATION



## MALPRESENTATION OTHER THAN BREECH PRESENTATION\*

Total cases	39
Incidence (%)	0.8

Mode of delivery	Face/brow	Compound	Transverse
Spontaneous vaginal	0	0	0
Vacuum extraction	0	0	0
Low forceps	0	0	0
Vaginal breech	0	0	0
Elective CS	0	1	19
CS & others	3	1	15
Total	3	2	34

Outcome of fetus	Face/brow	Compound	Transverse
Stillbirth-ante partum	0	0	1
Stillbirth-intra partum	0	0	0
Stillbirth-undetermined	0	0	0
Neonatal death	0	0	0
Perinatal death	0	0	1

\* Excluding malposition of occiput.

## PROLAPSE & PRESENTATION OF UMBILICAL CORD

Total cases			9
Incidence (%)			0.2
Outcome of fetus		Cases	%
Stillbirth - antepartum		0	0
Stillbirth - intrapartum		0	0
Stillbirth - undetermined		0	0
Neonatal death		0	0
Perinatal death		0	0
Mode of presentation	Total	Cases	%
Vertex	4666	6	0.1
Breech : extended leg(s)	89	1	1.1
flexed legs	93	0	0.0
footling	21	2	9.5
Face/brow	3	0	0.0
Compound	2	0	0.0
Transverse/oblique	34	0	0.0
Others	3	0	0.0
Mode of delivery		Number	%
Spontaneous vaginal		1	11.1
Vacuum extraction		0	0.0
Low forceps		3	33.3
Assisted breech delivery		0	0.0
Other breech delivery		0	0.0
Caesarean section		5	55.6

## MODE OF OPERATIVE DELIVERY

Total number	1690
Incidence (%)	34.3

Parity	VE	LF	CS
Primiparous	548	170	476
Multiparous	150	39	307
Total	698	209	783
Incidence (%)	14.2	4.2	15.9

Types of abdominal delivery	Number
Elective LSCS	221
Elective classical LSCS	1
LSCS	561
Classical CS	0
Caesarean hysterectomy	0
Others (laparotomy etc.)	0

Outcome of fetus	VE	LF	Elective CS	Emergency CS & others
Livebirths	698	209	222	559
Stillbirths	0	0	0	2
Neonatal death	0	0	0	3
Perinatal death	0	0	0	5

## INDICATIONS FOR ASSISTED DELIVERY\*

Indication	VE	LF
Maternal disease	17	2
Maternal distress	22	13
Previous caesarean section	2	0
Obstetric complications	1	2
Fetal distress	298	74
Cord Prolapse	0	1
Prolonged second stage	368	112
Others	12	9

## INDICATIONS FOR CAESAREAN SECTIONS\*

Indication	Number
GDM/DM	5
Maternal disease	5
Previous uterine scar	146
Bad obstetric history	1
Antepartum haemorrhage	53
Hypertension	36
Multiple pregnancy	81
Fetal distress	142
Cord prolapse	5
Intrauterine growth retardation	32
Malpresentation/lie	158
No progress of labour	74
Cephalopelvic disproportion	100
Contracted/unfavourable pelvis	27
Failed instrumental delivery	1
Tumour/anomaly	8
Failed induction	77
Elderly/Infertility	1
Suspected macrosomia	26
Social reason	1
Others	73

\* There may be more than one indication for assisted delivery.



## APGAR SCORES AT BIRTH VERSUS MODE OF DELIVERY\*

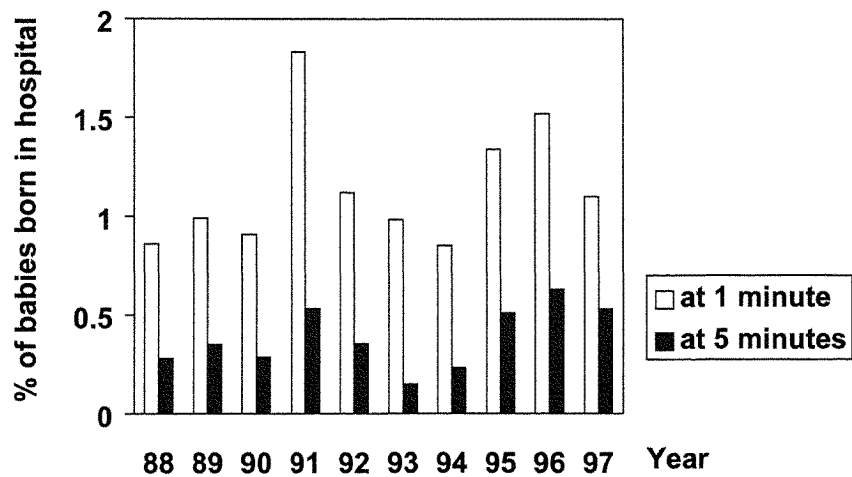
Apgar score at 1 minute

Method of delivery	AS <4	AS 4-6	AS >6	Subtotal
Spontaneous vaginal	20	41	3122	3183
Vacuum extraction	12	74	612	698
Low forceps	3	20	185	208
Vaginal breech	5	12	25	42
Elective CS	0	14	208	222
Emergency CS & others	14	85	462	561
Total	54	246	4614	4914
%	1.1	5.0	93.9	

Apgar score at 5 minute

Method of delivery	AS <4	AS 4-6	AS >6	Subtotal
Spontaneous vaginal	17	6	3160	3183
Vacuum extraction	1	9	688	698
Low forceps	0	2	206	208
Vaginal breech	3	2	37	42
Elective CS	0	0	222	222
Emergency CS & others	5	5	551	561
Total	26	24	4864	4914
%	0.5	0.5	99.0	

## NEONATAL ASPHYXIA\* (APGAR SCORES LESS THAN 4)



\* excluding stillbirths and babies born before arrival

\*Excluding babies born before arrival

## PERINATAL DATA

Total livebirths & stillbirths	4930
Primiparous	2599
Multiparous	2331
Born before arrival	16
Total livebirths	4910
Primiparous	2594
Multiparous	2316

## BASIC INFORMATION

Total birth $\geq$ 500 g	4930
Average birthweight(g)	3138 (sd= 505)
Stillbirth $\geq$ 500 g	20
Early (1st week) neonatal deaths	7
Late (2nd-4th week) neonatal deaths	1
Total birth $\geq$ 1 kg	4904
Stillbirth $\geq$ 1 kg	12
Early (1st week) neonatal deaths	6
Late (2nd-4th wk) neonatal deaths	1
Stillbirths with lethal malformations	1
Neonatal deaths with lethal malformations	4
Perinatal deaths with lethal malformations	5
Lethal malformation rate per 1000 births	1.0

## EXCLUDING LETHAL MALFORMATION ( including < 1 kg)

Stillbirth rate per 1000 total births n= 19	3.9
Neonatal mortality rate per 1000 livebirths n= 4	0.8
Perinatal mortality rate per 1000 total births n= 23	4.8

## EXCLUDING BIRTH < 1 kg (including malformation)

Stillbirth rate per 1000 total births n= 12	2.5
Neonatal mortality rate /1000 livebirths n= 7	1.4
Perinatal mortality rate /1000 total births n= 19	3.9

## EXCLUDING BIRTH < 1 kg and babies with lethal malformation

Stillbirth rate per 1000 total births n= 11	2.2
Neonatal mortality rate /1000 livebirths n= 3	0.6
Perinatal mortality rate /1000 total births n= 14	2.9

## SUMMARY OF FETAL LOSS

	Total	Stillbirths	
		Number	rate
Total	4930	20	4.1
Booked	4672	12	2.6
Non-booked	258	8	31.0
Primiparous	2599	5	1.9
Multiparous	2331	15	6.4

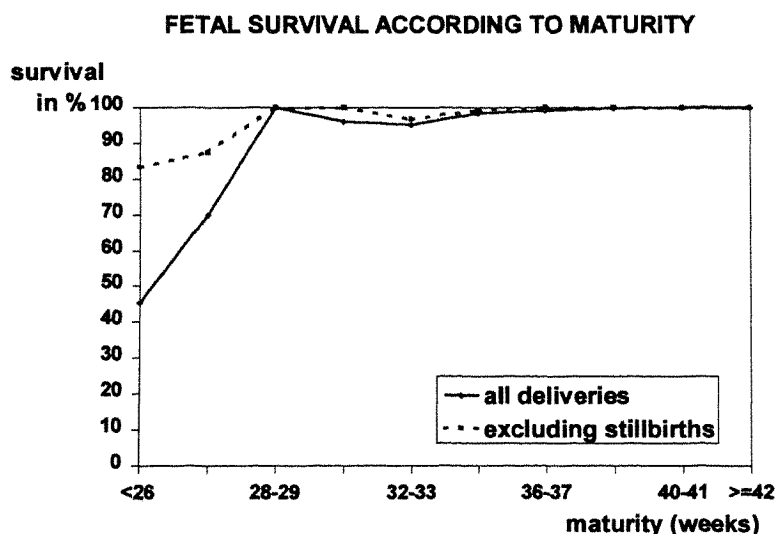
	Livebirths	Neonatal deaths	
		Number	rate
Total	4910	7	1.4
Booked	4660	5	1.1
Non-booked	250	3	12.0
Primiparous	2594	4	1.5
Multiparous	2316	4	1.7

	Total	Perinatal deaths	
		Number	rate
Total	4930	26	5.3
Booked	4672	16	3.4
Non-booked	258	11	42.6
Primiparous	2599	9	3.5
Multiparous	2331	18	7.7

## FETAL LOSS VERSUS GESTATIONAL AGE\*

Gestational age (weeks)	Total births	Live births	Stillbirth	Neonatal deaths	Perinatal deaths
<26	11	6	5	1	6
rate /1000			454.6	166.7	545.5
26-27	10	8	2	1	3
rate /1000			200.0	125.0	300.0
28-29	13	13	0	0	0
rate /1000			0.0	0.0	0.0
30-31	25	24	1	0	1
rate /1000			40.0	0.0	40.0
32-33	61	60	1	2	3
rate /1000			16.4	33.3	49.2
34-35	125	124	1	1	2
rate /1000			8.0	8.1	16.0
36-37	548	545	3	2	5
rate /1000			5.5	3.7	9.1
38-39	2314	2309	5	0.0	5
rate /1000			2.2	0.0	2.2
40-41	1753	1753	0	1	0
rate /1000			0.0	0.6	0.0
>=42	64	62	2	0	2
rate /1000			31.3	0.0	31.3
Total	4930	4924	20	7	26

\* For this analysis, the gestational age was calculated to the nearest week based on either L.M.P., early ultrasound dating scan or the postnatal assessment of the newborn with Dubowitz score. Babies with inadequate assessments are excluded.

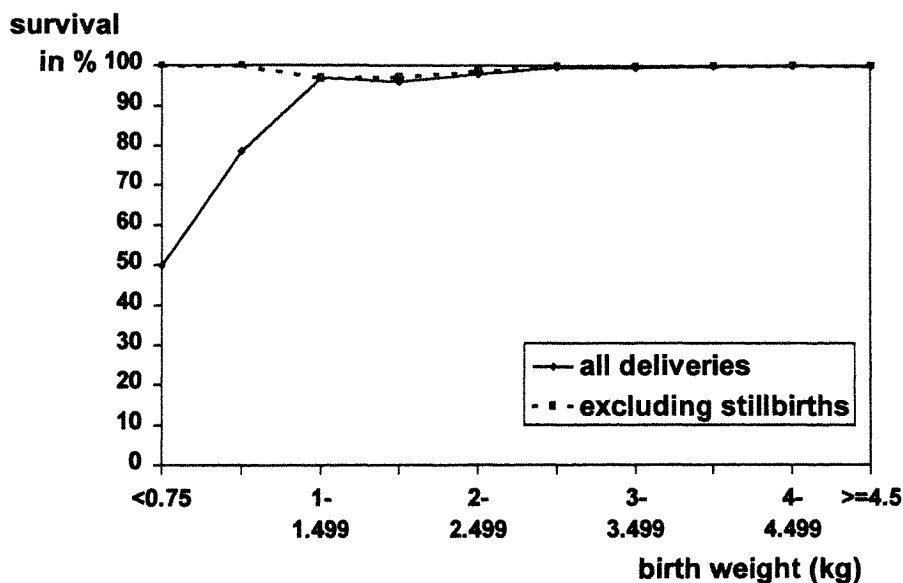


### NUMBER OF FETAL LOSS VERSUS BIRTH WEIGHT\*

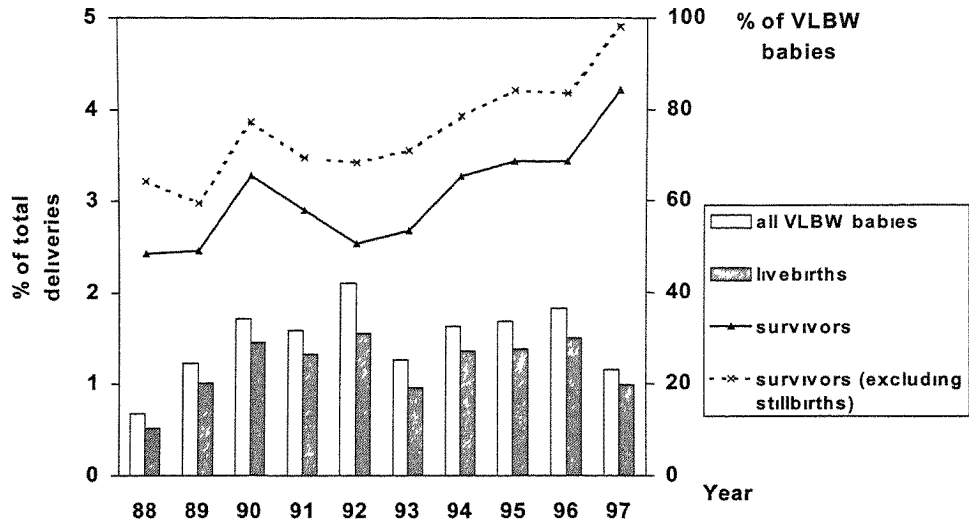
Birth weight in grammes	Total births	Live births	Still births	Neonatal deaths	Perinatal deaths
500-749	10	5	5	0	5
rate /1000			500.0	0.0	500.0
750-999	14	11	3	0	3
rate /1000			214.3	0.0	214.3
1000-1499	33	33	0	1	1
rate /1000			0.0	30.3	30.3
1500-1999	74	73	1	2	3
rate /1000			13.5	27.4	40.5
2000-2499	254	252	2	3	5
rate /1000			7.9	11.9	19.7
2500-2999	1265	1262	3	1	3
rate /1000			2.4	0.8	2.4
3000-3499	2262	2257	5	0	5
rate /1000			2.2	0.0	2.2
3500-3999	887	886	1	0	1
rate /1000			1.1	0.0	1.1
4000-4499	118	118	0	0	0
rate /1000			0.0	0.0	0.0
>=4500	11	11	0	0	0
rate /1000			0.0	0.0	0.0
<b>Total</b>	<b>4928</b>	<b>4908</b>	<b>20</b>	<b>7</b>	<b>26</b>

\* Babies with unknown birthweight are excluded.

### FETAL SURVIVAL ACCORDING TO BIRTHWEIGHT



**OUTCOME OF VLBW BABY  
(Birthweight <=1500g)**



**GESTATIONAL AGE AND FUNCTIONAL MATURITY**

	S.G.A.	A.G.A.	L.G.A.	Total
Preterm	47	291	46	384
Term	272	3155	464	3891
Postterm	52	513	84	649
Total	371	3965	594	4930
(%)	7.5	80.4	12.1	

Definition: S.G.A. less than 10th percentile for gestational age  
 L.G.A. more than 90th percentile for gestational age  
 A.G.A. appropriate for gestational age

### **CAUSE FOR STILLBIRTHS\***

1. Congenital anomaly	1
2. Isoimmunization	0
3. Pregnancy induced hypertension	0
4. Antepartum haemorrhage	2
5. Mechanical	1
6. Maternal disorder	1
7. Miscellaneous (Infection)	2
8. Unclassifiable	0
9. Unexplained	13
<b>Total</b>	<b>20</b>

## **OBSTETRICAL CAUSES OF NEONATAL DEATHS\***

1. Congenital anomaly	4
2. Isoimmunization	0
3. Pregnancy induced hypertension	0
4. Antepartum haemorrhage	0
5. Mechanical	0
6. Maternal disorder	0
7. Miscellaneous/Unclassifiable	0
8. Unexplained	3
Total	7

## **PAEDIATRIC CLASSIFICATION OF CAUSE OF NEONATAL DEATHS**

Cause	Major	Attributory
Congenital anomaly	4	0
Haemolytic disease of newborn	0	0
Hypoxia	2	1
Birth trauma	0	0
Respiratory distress syndrome	0	0
Intracranial haemorrhage	0	2
Infection	1	1
Others	0	3
Miscellaneous	0	0



## **BIRTH TRAUMA**

Total cases	54
Incidence (%)	1.1

## **TYPES OF BIRTH TRAUMA\***

	Number
Cephalhaematoma	4
Soft tissue trauma	11
Subaponeurotic haemorrhage	3
Intracranial haemorrhage	1
Fractures	29
Nerve injury	11
Visceral injury	0
Fetal outcome	
Stillbirths	0
Neonatal deaths	0
Perinatal deaths	0

## **Mode of delivery**

	Total	Cases	Incidence /100 births
Spontaneous	3198	21	0.7
Vacuum extraction	698	20	698
Low forceps	209	7	209
Vaginal breech	42	3	42
Elective caesarean section	222	0	222
Emergency CS & others	561	3	561

\* Each baby may have more than 1 type of trauma

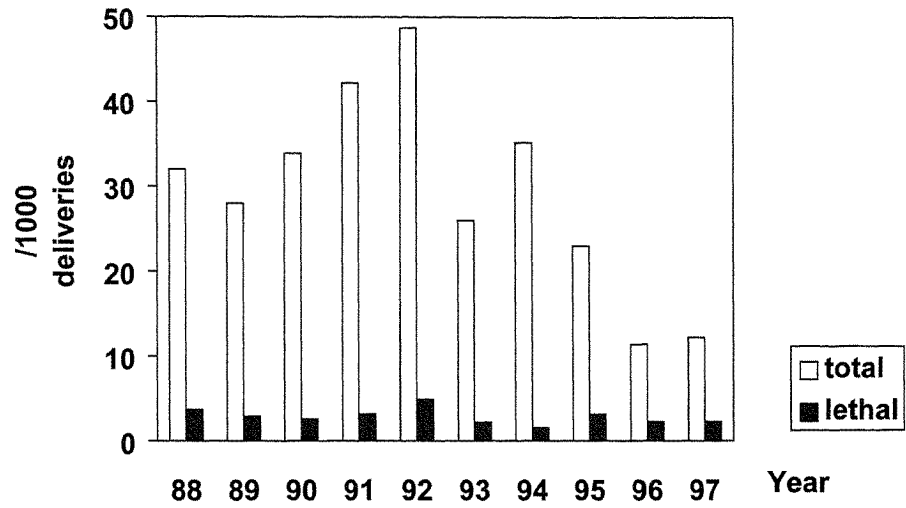
## CONGENITAL MALFORMATION

Total number	60
Incidence (%)	1.2

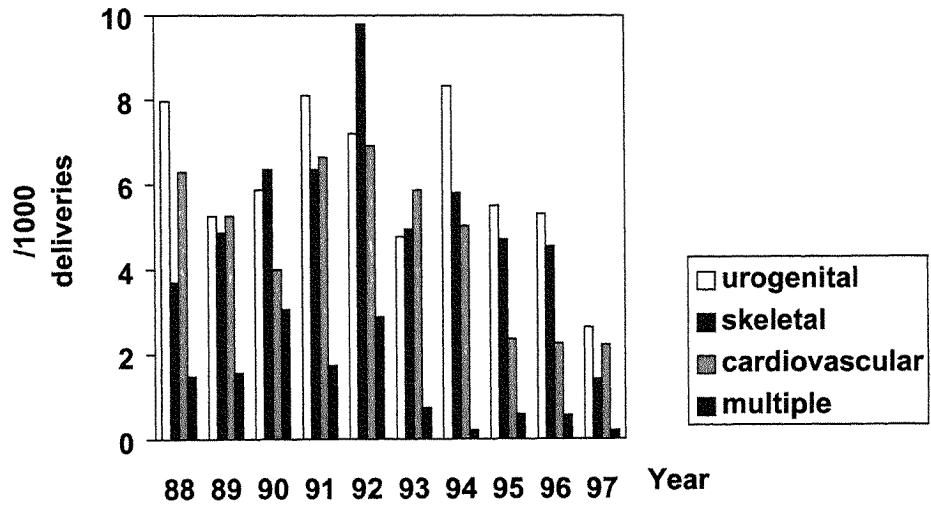
## TYPES OF MALFORMATIONS

Chromosomal abnormalities	7
Central nervous system	5
Face,eye,ear,oral cavity	4
Gastrointestinal tract	8
Cardiovascular system	11
Respiratory system	1
Urogenital system	13
Skeletal system	7
Multiple abnormalities	1
Others	3
Fetal mortality	
Stillbirth	1
Neonatal deaths	4
Perinatal deaths	4
Incidence (%)	
among livebirths	1.2
among stillbirths	5.0
among neonatal deaths	50.0
among low birth weight babies (<2.5 kg)	3.6

### CONGENITAL MALFORMATIONS



### TYPES OF CONGENITAL MALFORMATIONS



## OTHER NEONATAL COMPLICATIONS

	Cases	%
Admission To Intensive Care Unit	79	1.6
Respiratory Distress Syndrome	17	0.3
Intraventricular Haemorrhage	38	0.8
Necrotising Enterocolitis	25	0.5
Major Infection		
Congenital infection	5	0.1
Pneumonia	2	0.0
Septicaemia	1	0.0
Meningitis	1	0.0
Other major infection	2	0.0

**GYNAECOLOGY**

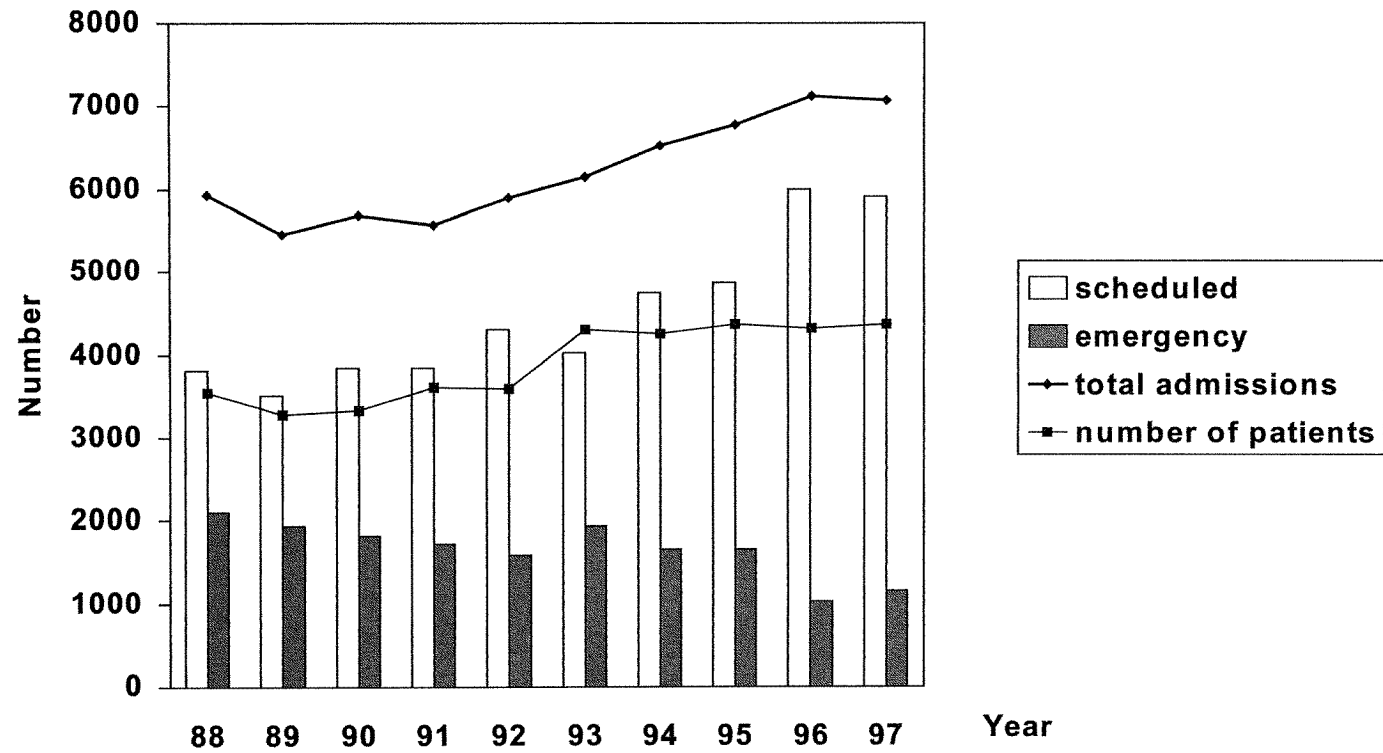
**STATISTICS**

## COMPARATIVE STATISTICS (1988 - 1997)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Total admissions	5926	5448	5673	5572	5901	6137	6530	6769	7115	7071
Emergency	2110	1939	1825	1725	1591	1935	1612	1657	1033	1157
Scheduled	3816	3509	3848	3847	4310	4022	4757	4867	6002	5914
Total number of patients admitted	3551	3276	3331	3613	3602	4303	4263	4367	4322	4367
Diseases of uterine cervix (%)	9.6	7.94	7.87	6.2	6.11	9.6	8.77	7.9	6.2	9.4
Diseases of uterine body (%)	12.14	10.5	10.12	10.21	10.41	10.64	11.28	10.4	10.4	9.5
Diseases of ovary(%)	8.03	8.15	6.39	5.87	5.94	7.41	9.83	7.81	7.7	13.1
Diseases of menstruation (%)	19.09	18.96	17.02	16.39	11.69	10.48	9.52	10.74	9.6	7.1
Disorders of pregnancy & reproduction (%)	42.3	44.14	52.54	51.9	52.64	54.52	55.22	56.72	59.5	53.1
Major abdominal surgery for benign conditions	531	460	409	423	429	493	505	489	423	420
Major abdominal surgery for malignant conditions	146	107	60	40	73	127	163	115	132	102
Major vaginal operations	32	28	28	23	28	44	54	57	68	112
Major vulval operations	8	5	4	4	9	11	8	2	6	6
Endoscopic procedures*						280	318	504	825	833
Assisted reproduction procedures*						458	676	875	1049	1174
Minor abdominal operations	384	450	419	398	405	158	143	52	16	21
Other minor operations	1695	1565	1661	1870	1830	1899	1857	1738	1686	1523
Death	25	28	17	29	39	32	23	17	9	11

\* data collected only after 1993

## ADMISSIONS TO GYNAECOLOGICAL WARDS



## OUTPATIENTS STATISTICS

	New	Follow-up
<b>GENERAL GYNAECOLOGY CLINICS</b>		
Sai Ying Pun Specialist Clinic	3925	11356
Tang Chi Ngong Specialist Clinic	1088	2268
<b>SUBSPECIALTY CLINICS</b>		
Subfertility Clinics	475	1722
Menstrual Disorder Clinics	392	1273
Psychosomatic Clinic	2	20
Menopause Clinics	342	220
Diagnosis		
surgical		101
natural		241
Procedures		
hormonal replacement therapy		
reasons for hormonal replacement therapy		
relief of menopausal symptoms		112
prevention of osteoporosis/cardiovascular disease		121
types of hormonal replacement therapy		
oestrogen only		87
cyclical combined oestrogen and progestogen		132
continuous combined oestrogen and progestogen		10
others		4
counselling		104
bone mineral density measurement		146



Ovarian Assessment Clinic	New 132	Follow-up 104
Reasons for referral		
pelvic mass on ultrasonography		123
pelvic mass during pelvic examination		6
screening of ovarian malignancy		1
others		2
Ultrasonographic diagnosis*		
normal		20
corpus luteum		5
functional ovarian cyst		5
haemorrhagic ovarian cyst		3
polycystic ovarian disease		1
simple ovarian cyst		14
dermoid cyst		11
endometriotic cyst		34
mucinous cystadenoma		4
serous cystadenoma		2
parovarian cyst		4
pseudocyst		8
hydrosalpinx		1
uterine leiomoma		25
adenomyosis		1
pelvic varicosities		1
pelvic mass of uncertain nature		2
Referral for operation		16

\* one patient may have more than one diagnosis

	New	Follow-up
<b>Colposcopy Clinics</b>	<b>640</b>	<b>2556</b>
<b>Diagnosis</b>		
normal		130
inflammatory		40
warts		45
low grade squamous intraepithelial lesions		171
high grade squamous intraepithelial lesions		121
microinvasive carcinoma of cervix		6
invasive carcinoma of cervix		8
vulval intraepithelial neoplasia		2
vaginal intraepithelial neoplasia		3
others		10
<b>Procedures</b>		
large loop excision of transformation zone		130
cryotherapy		18
 <b>Oncology Clinics Attendances</b>		
Gynaecology Oncology Follow-up		1839
Radiotherapy Follow-up		1582
Mole Clinic		1148
Chemotherapy Clinic		1123

## ADMISSIONS AND DISCHARGES STATISTICS

Total number of admissions	7071
Total number of admitted patients	4367

### Status at admission

	Number	%
Scheduled	5914	83.6
Emergency	1029	14.6
Unplanned readmission	34	0.5
Transfer in	94	1.3

### Status at discharge

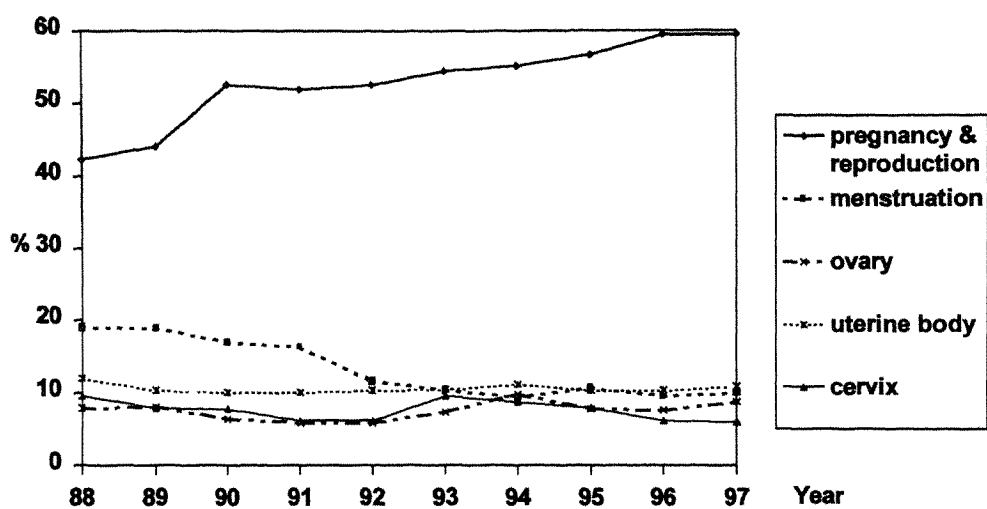
	Number	%
Discharge home	7050	99.7
Transfer referral	7	0.1
Transfer convalescence	2	0.0
Discharge against medical advice	1	0.0
Death	11	0.2

## STATISTICAL SUMMARY

### Diagnosis

	admissions		patients	
	number	%	number	%
Disease of vulva, perineum and urethra	110	1.6	93	2.1
Disease of vagina	84	1.2	57	1.3
Disease of uterine cervix	664	9.4	267	6.1
Disease of uterine body	672	9.5	482	11.0
Disease of fallopian tube	70	1.0	60	1.4
Disease of ovary	929	13.1	387	8.8
Disease of broad ligament and pelvic peritoneum	78	1.1	67	1.5
Disease of genital displacement/urinary incontinence	111	1.6	77	1.8
Disease of menstruation	503	7.1	438	10.0
Disease of pregnancy and reproduction	3758	53.1	2599	59.4
Complications in pregnancy	66	0.9	65	1.5
Miscellaneous gynaecological condition	249	3.5	220	5.0
Miscellaneous condition	422	6.0	325	7.4

### COMMON DIAGNOSTIC GROUPS\*



\*number of patients

Treatment	Number	%
Major abdominal surgery for benign conditions	420	5.9
Major abdominal surgery for malignant conditions	102	1.3
Major vaginal operation	112	1.6
Major vulval operation	6	0.1
Endoscopic procedures	833	11.8
Colposcopic related procedures	60	0.8
Assisted reproduction procedures	1174	16.6
Minor abdominal operations	21	0.3
Other minor operations	1523	21.5
Radiotherapy	50	0.7
Other forms of treatment	3564	50.4

Complications	Number	%
Fever	16	0.2
Bowel injury	3	0.04
Urinary tract injury	2	0.03
Perforation of uterus	1	0.01
Chest infection	2	0.03
Urinary tract infection	9	0.1
Wound complication	5	0.1
Deep vein thrombosis	1	0.01
Cardiopulmonary arrest	1	0.01
Excessive blood loss	7	0.1
Postoperative haemorrhage	3	0.04
Others	11	0.2

## DIAGNOSIS

### Diseases of Vulva, Perineum and Urethra

	Admissions	Patients
Total	110	93
Congenital anomaly	0	0
Trauma	9	9
Infection	19	18
Benign neoplasm	8	5
Malignant neoplasm	8	7
Retention cyst	20	18
Vulval dystrophy	22	20
Urethral lesions	6	4
Miscellaneous	18	15

### Diseases of Vagina

	Admissions	Patients
Total	84	57
Congenital anomaly	2	2
Trauma	3	3
Infection	8	7
Benign neoplasm	4	4
Malignant neoplasm	27	9
Retention cyst	1	1
Fistula	8	7
Vaginal intraepithelial neoplasia	5	4
Miscellaneous	27	24

### Diseases of Uterine Cervix

	Admissions	Patients
Total	664	267
Congenital anomaly	3	3
Trauma	1	1
Infection	1	1
Benign neoplasm	38	35
Carcinoma of cervix	552	180
new cases		71
stage I		31
stage II		18
stage III		14
stage IV		2
recurrence		6
Other malignancy	17	7
Cervical intraepithelial neoplasia	47	41
Miscellaneous	6	6

### Diseases of Uterine Body

	Admissions	Patients
Total	672	482
Congenital anomaly	12	9
Trauma	3	3
Infection	16	14
Fibromyoma	354	290
Carcinoma of corpus	159	82
new cases		43
stage I		29
stage II		7
stage III		4
stage IV		2
recurrence		2
Other malignancy	29	11
Myohyperplasia	6	6
Endometrial polyp	34	33
Adenomyosis	42	42
Endometrial hyperplasia	15	13
Miscellaneous	28	27

### Diseases of Fallopian Tubes

	Admissions	Patients
Total	70	60
Acute pelvic inflammatory disease	36	34
Chronic pelvic inflammatory disease	12	10
Tuberculous salpingitis	0	0
Benign neoplasm	8	8
Malignant neoplasm	8	3
Miscellaneous	8	7

### Diseases of Ovary

	Admissions	Patients
Total	929	387
Retention/functional cyst	24	21
Endometriotic cyst	112	102
Benign tumour/cyst	143	123
Primary malignant epithelial tumour	560	133
new cases		66
stage I		20
stage II		5
stage III		28
stage IV		3
unstaged		3
recurrence		6
other		1
Primary malignant non-epithelial tumour	42	20
Secondary malignant tumour	18	14
Borderline malignant tumour	12	9
Miscellaneous	22	22



### Diseases of Broad Ligaments and Pelvic Peritoneum

	Admissions	Patients
Total	78	67
Pelvic endometriosis	54	51
Parovarian cyst	2	2
Miscellaneous	22	14

### Genital Displacements / Urinary Problems

	Admissions	Patients
Total	111	77
Uterine prolapse	81	60
Cystocele/rectocele/enterocele	90	69
Stress incontinence	2	2
Detrusor instability	0	0
Miscellaneous	11	10

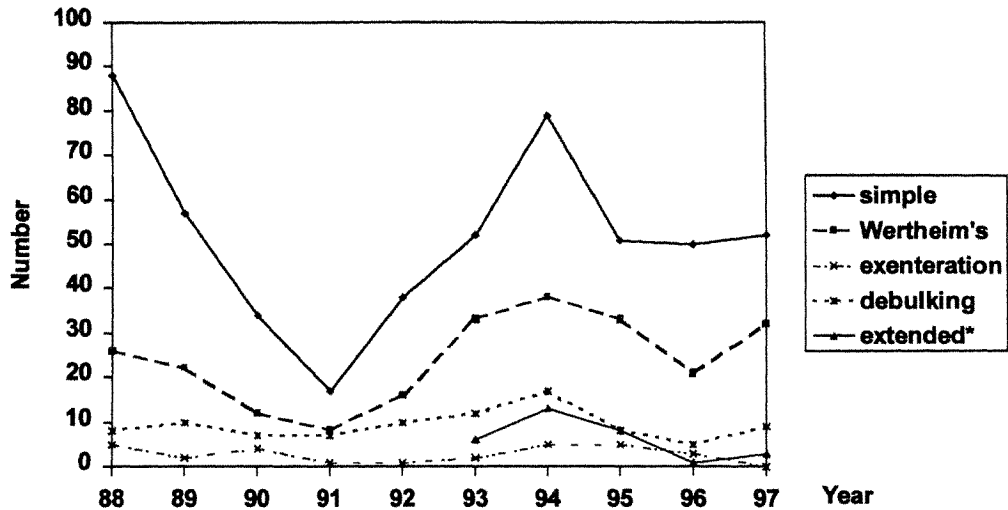
### Disorders of Menstruation

	Admissions	Patients
Total	503	438
Primary amenorrhoea	3	3
Secondary amenorrhoea	8	8
Dysfunctional uterine bleeding	386	332
Postmenopausal bleeding	83	73
Dysmenorrhoea	15	15
Miscellaneous	9	9

## Disorders of Pregnancy and Reproduction

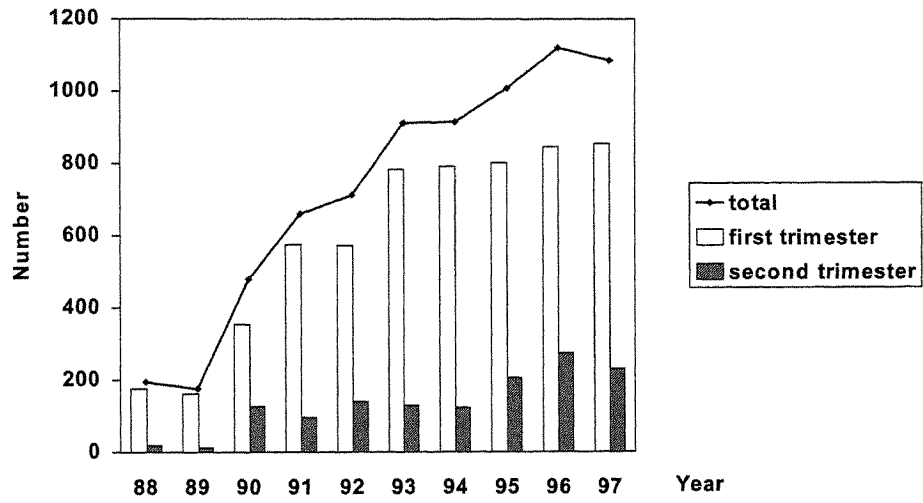
	Admissions	Patients
Total	3758	2599
Infertility	1400	690
Hyperemesis gravidarum	46	42
Threatened abortion	301	271
Spontaneous/missed abortion	467	447
Complete mole	40	22
Partial mole	5	4
Residual trophoblastic disease	42	18
Metastatic Malignant trophoblastic disease	86	21
Secondary postpartum haemorrhage	17	14
Other puerperal problems	3	3
Ectopic pregnancy	77	75
First trimester termination of pregnancy	944	856
Second trimester termination of pregnancy	244	230
Sterilization	112	108
Miscellaneous	24	24

### HYSTERECTOMY FOR MALIGNANT CONDITIONS



\* extended hysterectomy was grouped as simple hysterectomy before 1993

### TERMINATION OF PREGNANCY\*



\* number of patients

### Complications in Pregnancy

	Admissions	Patients
Total	66	65
Benign tumour of genital tract	0	0
Malignant tumour of genital tract	5	5
Medical diseases	5	5
Surgical diseases	1	1
Non-specific abdominal pain	55	55

### Miscellaneous Gynaecological Conditions

	Admissions	Patients
Total	249	220
Retained IUCD	22	20
Abdominal pain of unknown cause	90	88
Complication of treatment in the same unit	98	77
Complication of treatment in other unit	14	12
Miscellaneous	25	25

### Miscellaneous Conditions

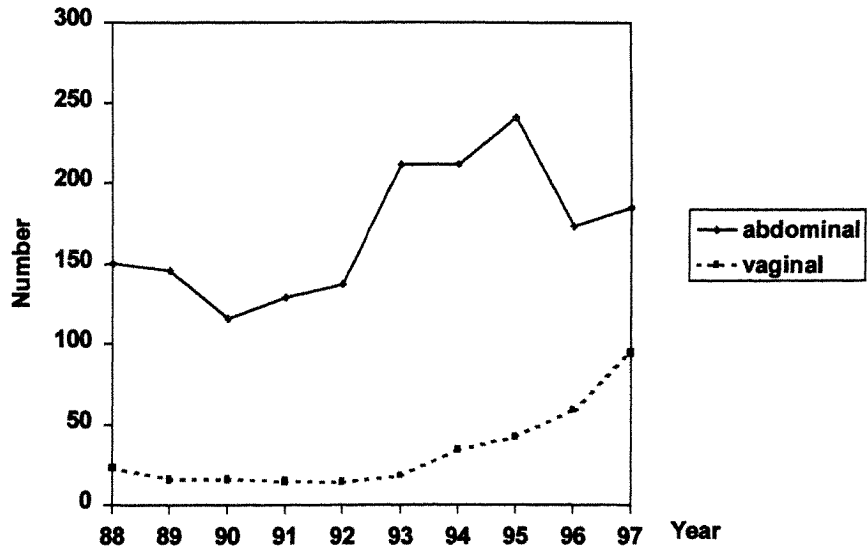
	Admissions	Patients
Total	422	325
Breast disease	8	8
Urinary tract disease	93	83
Gastrointestinal tract disease	107	61
Cardiovascular disease	48	38
Respiratory tract disease	22	21
Central nervous system disease	10	10
Endocrine disease	54	42
Blood disease	50	47
Dermatological/musculoskeletal disease	31	25
Miscellaneous	29	27

## TREATMENT

### Major Abdominal Surgery For Benign Conditions

Total	420
Hysterectomy +/- salpingo-oophorectomy	185
Subtotal hysterectomy +/- salpingo-oophorectomy	0
Repair of urinary fistula	0
Myomectomy	38
Ovarian cystectomy	88
Salpingo-oophorectomy/Oophorectomy	46
Salpingectomy	33
Salpingotomy	24
Stress incontinence surgery	0
Miscellaneous	25

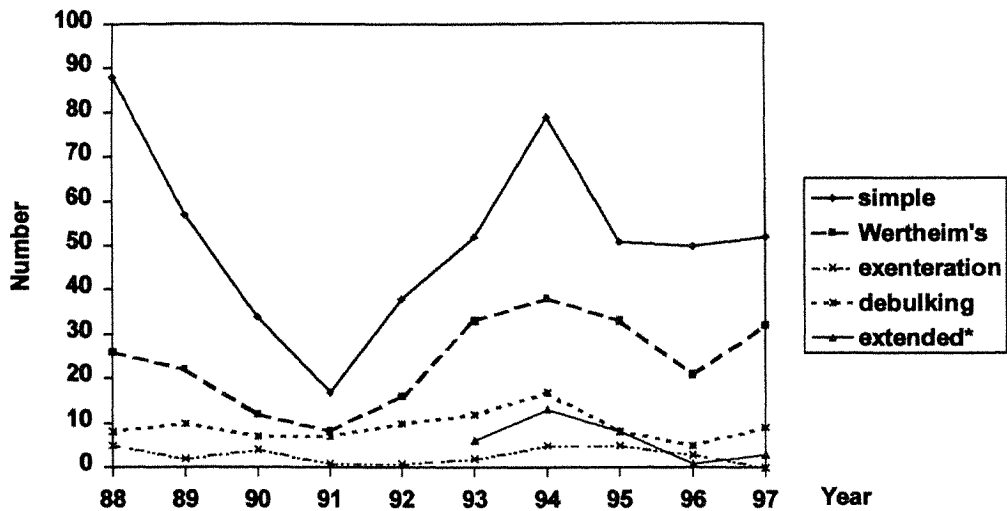
### HYSTERECTOMY FOR BENIGN CONDITIONS



## Major Abdominal Surgery For Malignant Conditions

Total	102
Hysterectomy +/- salpingo-oophorectomy	52
Subtotal hysterectomy +/- salpingo-oophorectomy	2
Wertheim's hysterectomy	32
Pelvic exenteration	0
Debulking	9
Extended hysterectomy	3
Miscellaneous	28

### HYSTERECTOMY FOR MALIGNANT CONDITIONS



\* extended hysterectomy was grouped as simple hysterectomy before 1993

## Major Vaginal Operations

Total	112
Incontinent surgery	0
Vaginal hysterectomy	50
Vaginal hysterectomy + pelvic floor repair	45
Pelvic floor repair	10
Repair of urinary fistula	0
Miscellaneous	7

## Major Vulval Operations

Total	6
Radical vulvectomy	1
Simple vulvectomy	3
Miscellaneous	2

## Endoscopic Procedures

Total	833
Diagnostic laparoscopy	240
Laparoscopic sterilization	99
Other laparoscopic operations	201
operations for ovarian cyst	92
laparoscopic assisted vaginal hysterectomy	45
operation for ectopic pregnancy	55
others	9
Diagnostic hysteroscopy	453
Hysteroscopic ablation	2
Other hysteroscopic operations	26
Miscellaneous	7

### Colposcopy Related Procedures\*

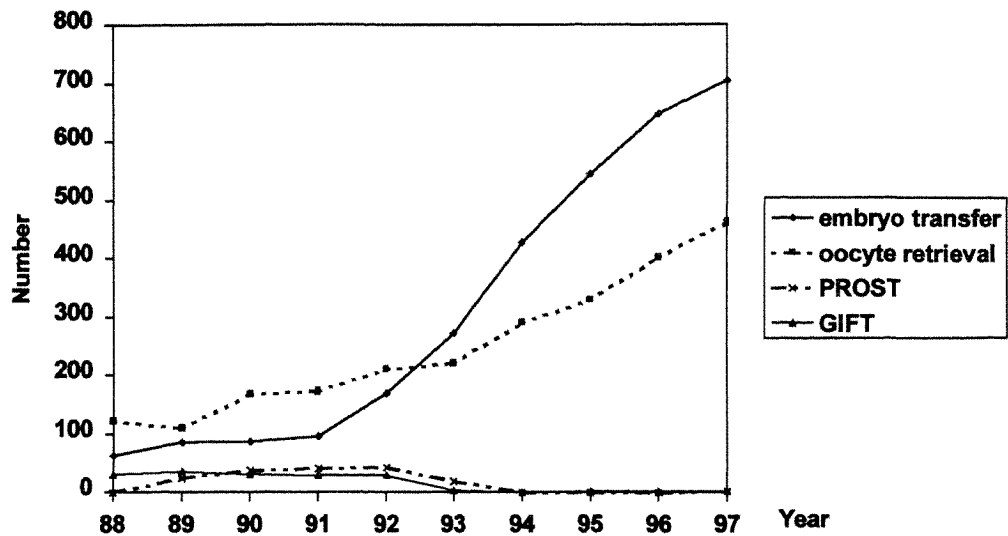
Total	60
Cervical Cautery	2
Laser Vaporization	5
Laser Cone	0
Loop Excision	11
Cone Biopsy	27
Miscellaneous	15

\*most of the colposcopic procedures were performed as out patient

### Assisted Reproduction Procedures

Total	1174
Oocyte retrieval (ultrasound guided)	462
Oocyte retrieval (laparoscopic)	1
Gamete intrafallopian transfer (GIFT)	1
Pronuclear stage transfer (PROST)	1
Embryo transfer	704
Miscellaneous	5

### ASSISTED REPRODUCTION PROCEDURES

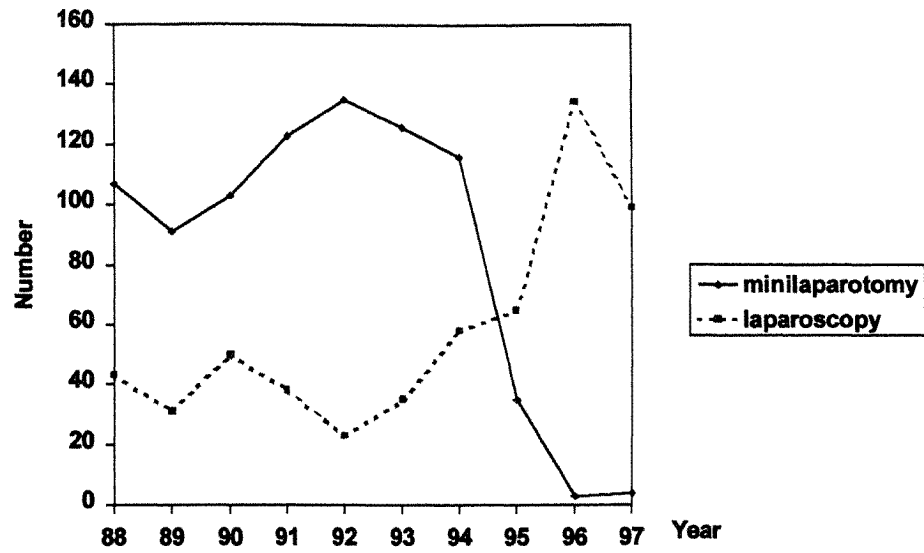




### Minor Abdominal Operations

Total	21
Tubal ligation	4
Resuture of abdominal wound	7
Miscellaneous	10

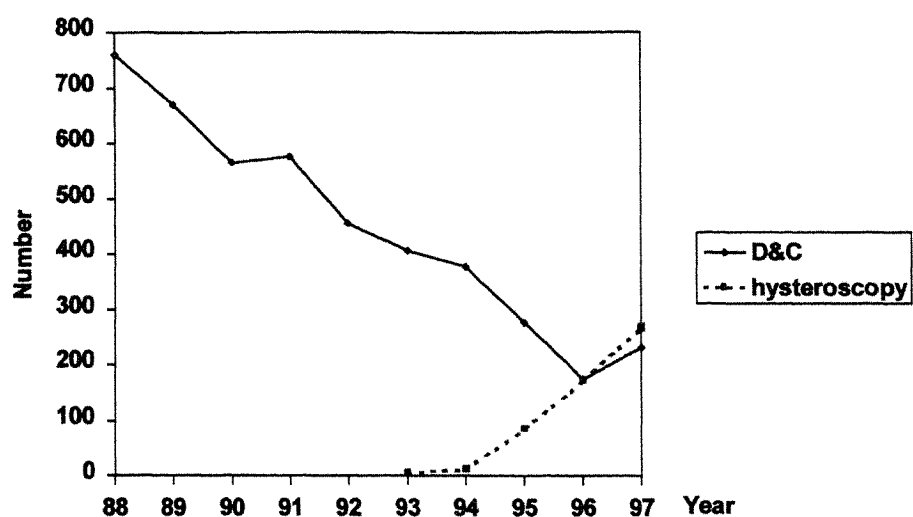
### MINILAPAROTOMY & LAPAROSCOPIC STERILISATION



## Other Minor Operations

Total	1523
Dilatation and curettage / polypectomy	233
Suction termination of pregnancy	753
Evacuation of retained products of conception	412
Marsupialization	25
Cervical cerclage	0
Other vulval surgery	45
Miscellaneous	140

### D&C AND DIAGNOSTIC HYSTEROSCOPY\*



\* hysteroscopy performed for subfertility investigations not included and hysteroscopy performed prior to 1993 not recorded

### Radiotherapy\*

Total	50
Intracavitary radiotherapy	6
External radiotherapy	15
Miscellaneous	29

\* Most of the patients were admitted to the Department of Radiotherapy and Oncology and were therefore not included in our admission statistics.

### Other Forms of Treatment

Total	3564
Observation and investigations	1950
Antibiotic as primary treatment	139
Prostaglandins	319
Hormones	87
Chemotherapy	478
Miscellaneous	691

## COMPLICATION RATES IN RELATION TO COMMON OPERATIONS

	Total No.	No. of Complications (%)
All Major Abdominal Surgery	498	33 ( 6.6)
Hysterectomy (for benign conditions)	185	9 ( 4.9)
Myomectomy	38	7 (18.4)
Ovarian cystectomy	88	2 ( 2.2)
Salpingo-ophorectomy/oophorectomy	46	3 ( 6.5)
Salpingectomy	33	0 ( 0.0)
Salpingotomy	24	0 ( 0.0)
Hysterectomy (for malignant conditions)	52	7 (13.5)
Wertheim's hysterectomy	32	5 (15.6)
 Vaginal Hysterectomy	 95	 3 ( 3.2)
 Laparoscopy	 540	 5 ( 0.9)
Diagnostic laparoscopy	240	1 ( 0.4)
Laparoscopic sterilization	99	0 ( 0.0)
Other laparoscopic procedures	201	4 ( 2.0)
 Hysteroscopy	 471	 0 ( 0.0)
Diagnostic hysteroscopy	453	0 ( 0.0)
Operative hysteroscopy	28	0 ( 0.0)
 Dilatation and curettage	 233	 0 ( 0.0)
Suction evacuation for termination of pregnancy	753	0 ( 0.0)
Evacuation of products of conception	412	2 ( 0.5)

**BREAKDOWN OF VARIOUS COMPLICATIONS IN RELATION TO THE COMMON TYPES OF SURGERY**

	Fever	Injury to adjacent organs			Infection		Wound Complications	Blood Loss*	Postoperative Haemorrhage
		Bowel	Urinary Tract	Uterus	Chest	UTI			
All Major Abdominal Surgery	13	1	1	0	1	4	6	5	2
TAH (for benign conditions)	4	0	0	0	0	1	1	2	1
Myomectomy	3	0	0	0	0	2	0	2	0
Ovarian cystectomy	2	0	0	0	0	0	0	0	0
Salpingo-oophorectomy/ oophorectomy	0	0	0	0	0	0	1	1	1
Salpingectomy	0	0	0	0	0	0	0	0	0
Salpingotomy	0	0	0	0	0	0	0	0	0
TAH (for malignant conditions)	2	0	0	0	1	1	3	0	0
Wertheim's hysterectomy	2	1	1	0	0	0	1	0	0
Vaginal Hysterectomy	0	0	0	0	0	1	0	2	0
Laparoscopy	1	0	0	1	0	0	0	2	1
Diagnostic laparoscopy	0	0	0	1	0	0	0	0	0
Laparoscopic sterilization	0	0	0	0	0	0	0	0	0
Other laparoscopic procedure	1	0	0	0	0	0	0	2	1
Hysteroscopy	0	0	0	0	0	0	0	0	0
Diagnostic hysteroscopy	0	0	0	0	0	0	0	0	0
Operative hysteroscopy	0	0	0	0	0	0	0	0	0
Dilatation and curettage	0	0	0	0	0	0	0	0	0
Suction evacuation for TOP	0	0	0	0	0	0	0	0	0
Evacuation of POC	2	0	0	0	0	0	0	0	0

\* operative blood loss requiring transfusion (not for treatment of anaemia)

## LIST OF ABBREVIATIONS

AGA	Appropriate for gestational age
APH	Antepartum haemorrhage
Chronic HT	Chronic hypertension
C. HT with PET	Chronic hypertension with superimposed preeclampsia
CS	Caesarean section
GIFT	Gamete intrafallopian transfer
G. Proteinuria	Gestational proteinuria
G. P. HT	Gestational proteinuric hypertension
IGT	Impaired glucose tolerance
IUD	Intrauterine death
IUGR	Intrauterine growth retardation
LF	Low forceps
LGA	Large for gestational age
NND	Neonatal death
PND	Perinatal death
PPH	Postpartum haemorrhage
PROST	Pronuclear stage transfer
SB	Stillbirth
SGA	Small for gestational age
TAH	Total abdominal hysterectomy
TOP	Termination of pregnancy
Unclassified HT/P	Unclassified hypertension/proteinuria
VE	Vacuum extraction
VLBW	Very low birthweight



