# HYSTERQSCOPY IN EXCESSIVE UTERINE BLEEDING

SURENDRA K. PATIL . REKHA G. DAVER

#### SUMMARY

Fifty cases of excessive uterine bleeding were studied for a period of one year from Jan '92 to Dec. '92. This study included patients with complaints of post-menopausal bleeding (10%) and cases of dysfunctional uterine bleeding (90%).

The ages of patients ranged from 28 to 58 years. Abnormal findings were noted in 60% of cases. The uterine cavity was found to be normal in (40%), polyps (14%), submucous fibroids (6%), hyperplastic Endometrium (30%), tuberculous endometritis (4%), atrophic Endometrium (4%) and synechiae (2%).

Lesions like atrophic endometrium, submucous fibroids, synechiae and tuberculosis of endometrium were diagnosied with 100% accuracy. Histopathological correlation with Hysteroscopy was 92%. The procedure confirmed diagnosis in 68% of cases, changed in 24% and proved to be inaccurate in 8% of cases.

### **INTRODUCTION**

Hysteroscopy is endoscopic visualisation of uterine cavity and endocervix, the areas previously inaccessible to the human eye. Although routine dilatation and curretage was performed as a diagnostic and therapeutic procedure for excessive uterine bleeding, it proved to be ineffective in cases like focal lesions of endometrium or fibroid polyps. Now hysteroscopy not only offers a quick, safe and accurate diagnosis, but also curative in cases of fibroid polyps, intrauterine adhesions,

Dept. of Obst. & Gyn. St. George's Hospital, Bombay. Accepted for Publication on 19.05.1993. menorrhagia and lost IUCD.

# AIMS AND OBJECTIVES

This study was undertaken to ascertain the accuracy of hysteroscopy in cases of excessive uterine bleeding for the diagnosis of endometrial lesions, and intra-uterine tumours, and comparing hysteroscopy diagnosis with histopathology.

Incompany of Annual of Description of

### MATERIAL AND METHODS

50 patients between the age group of 28 to 58 years underwent diagnostic hysteroscopy at St. George's Hospital from January '92 to December '92 for a period of one year for

# JOURNAL OF OBSTETRICS AND GYNAECOLOGY OF INDIA

excessive uterine bleeding, which either incapacitiated the patient or increased her awareness about cancer. Hysteroscopy was performed with 7 mm rigid Storz hysteroscope under general anaesthesia in 40 cases and paracervical block and sedation in 10 cases. Carbon dioxide delivered by hysteroflator was used as distending medium in 38 cases in premenstrual phase while normal saline was used in 12 cases when patient was bleeding p.v. It took 5 to 10 minutes to complete the procedure. Operative procedures included target biopsies of the endometrium, cutting synechiae and stalk of submucous fibroid polyp. There are no complications.

#### **OBSERVATIONS**

Out of total 50 cases for hysteroscopy with excessive uterine bleeding, 45 were dysfunctional uterine bleeding cases and presented with complaints of polymenorrhagia or metrorrhagia, and 5 cases were of post menopausal bleeding.

The incidence of excessive uterine bleeding was maximum for the age group of 31 to 40 years (48%).

2 cases of endometrial hyperplasia were found to be normal on histopatholgy giving 4% rate of false positive cases of endometrial lesion diagnosis.

False positive rate of intra-uterine tumour diagnosis was 4% as histology in

### **Table I**

Indications for Hysteroscopy

Indications	No.	%
Dysfunctional uterine bleeding	45	90
Post-menopausal bleeding	5	10
Total	50	100

# Table II

Age i	inci	id	ence
-------	------	----	------

Age (Years)	No.	%
28 to 30	6	12
31 to 40	24	48
41 to 50	16	32
51 to 58	4	8
Total	50	100
10(8)	50	100

### **Table III**

#### Hysteroscopic findigs

Hysteroscopic findings	No.	%
Normal	20	40
Hyperplasia	15	30
Endometrial Polyps	7	14
Submucous Fibroids	3	6
Tuberculous Endometritis	2	4
Atrophic Endometrium	2	4
Synechiae	1	2
Total	50	100
		the state of the s

2 cases of endometrial polyps proved to be normal.

Of 46 cases of correct hysteroscopic diagnosis in 41 cases of DUB, the diagnosis was confirmed in 31 cases, and was changed in 10 cases to 3 cases of submucous fibroids, 5 cases of endometrial polyps and 2 cases of endometrial tuberculosis. In 5 cases of postmenopausal bleeding the clinical diagnosis was confirmed in 3 cases of atrophic endometrium and synechiae and changed to 2 cases of DUB.

## HYSTEROSCOPY IN EXCESSIVE UTERINE BLEEDING

# **Table IV**

Accuracy o	f endo	ometrial	lesion	diagnosis
------------	--------	----------	--------	-----------

-	Hysteroscopic Findings	No	Histological Confirming Hysteroscopy	Findings Refuting Hysteroscopy	False Negative	False Positve
1	Normal	31	31		-	-
2	Hyperplasia	15	13	2 (Normal)	-	2
3	Tuberculosis	2	2		-	_
4	Atrophy	2	2	-		There
	Total	50	48	2		2 (4%)

Table V

	Hysteroscopic Findings	No	Histolo Confirming	gical Findings Refuting	False Negative	False Positve
			Hysterosco			
1	Normal	39	39	5.bs	(0901	a wide a
2	Endometrial Polyps	7	5	2 (Normal)		2
3	Submucous Fibroids	3	3	9.55 - G	CAULTY TRACK	these destroyed
4	Synechiae	1	1			
	Total	50	48	2		2 (4%)

# Accuracy of intra-uterine tumour diagnosis

# DISCUSSION

According to Sciarra & Valle et al (1977) and Corson and Brooks (1983) abnormal uterine bleeding is the commonest indication for hysteroscopy. The incidence varies from 94.6% for Hamou (1984) to 52.9% for Baggish and Barbot (1983). The corrected incidence in our clinical study was 52%.

(i) Endometrial hyperplasia In endometrial hyperplasia, the endometrium is not only thick, but whitish and fragile. It may be localised or generalised. The highest incidence was in Mangeshikar and Sheth's (1990) study i.e. 26% and the lowest was Sciarra & Valle's (1977) study i.e. 4%. The incidence in the present study was 22%.

(ii) Endometrial polypi

Endometrial polypi are soft to touch, vascular with a large visible arteriole, whiter

# JOURNAL OF OBSTETRICS AND GYNAECOLOGY OF INDIA

# **Table VI**

	Clinical Diagnosis	No	DUB		POLYP.				Confirmed	Changed
1	DUB	41	31	3	5	2			31	10
2	Post-Menopausal Bleeding	5	2	1	-	11	2	1	3	2
	Total	46	33	3	5	2	2	1	34(68%)	12(24%)

## Clinical diagnosis hysteroscopic diagnosis

Table VII

Abnormal hysteroscopic findings

Study	Findings (%)
Hamou (1984)	94.6
Khandwala (1986)	83.3
Sciarra & Valle (1977)	71.2
Motashaw & Dave (1990)	66.5
Bhattacharya (1992)	66
Wamstaker (1984)	58.5
Mangeshikar and Sheth (1990)	56
Baggish and Barbot 9(1983)	52.9
Present Study (1992)	52

than surrounding endometrium and protrude freely into the uterine cavity. The incidence in present study was 10%.

(iii) Submucous fibroids

Submucous fibroids are roundish protrusions fixed to the uterine wall and are yellowish white in colour. The incidence in present study was 6% as compared to other studies.

(iv) Atrophic endometrium In case of atrophic endometrium, the endometrial cavity appears totally white, avascular and without any elevations or protrusions. The highest incidence of atrophic endometrium was 14.6% for Hamou (1984) and the lowest was 1.6% for Motashaw & Dave (1990). In the

Table VIII							
Study / Findigs in %	Enbdometrial hyperplasia	Endometrial Polyps	Submucous Fribroids	Atrophic End.	Uterine Synechiae		
Bhattacharya (1992)	16	34	4	4	4		
Khandwala (1986)	60	3.3	6.6	3.3	_		
Hamou (1984)	23.7	9.1	29	14.6			
Motashaw and Dave (1990)	22.9	21.5	11.3	1.6	5.6		
Mangeshikar and Sheth (1900)	26	4	18	_			
Sciarra and Valle (1977)	4	40	17.3	6	2		
Wamstaker (1984)	12.2	19	7.8	9.8	3		
Present Study (1992)	22	10	6	4	2		

608

### HYSTEROSCOPY IN EXCESSIVE UTERINE BLEEDING

# Table IX

### **Tuberculous endometritis**

Study	Findings (%)
Khandeparkar and Sheth (1990)	10.3
Trivedi and Raval (1984)	2.3
Present Study (1992)	4

hysteroscopy of our study are comparable to that of Mangeshikar and Sheth (1990). The false positive rate of 8% or of inaccurate diagnosis for 4 cases of endometrial hyperplasia and endometrial polyps was because of the initial over enthusiasm in the diagnosis of both these conditions.

### CONCLUSION

According to Sciarra and Valle (1977), hysteroscopy does not supplant other diagnostic procedures but complements them. The

Т	_	1		- W
	я	n	le	
~	~~	~		4 1

Accuracy	of	Hyst	teroscopy
----------	----	------	-----------

	Study	Confirmed	Changed	Inaccurate
1	Mangeshikar and Sheth (1990)	66	21	13
2	Present study (1992)	68	24	8

present study the incidence was 4%. (v) Uterine Synechiae

The incidence of uterine synechiae in different studies were - Motashaw and Dave (1990) 5.6%, Bhattacharyya (1992) 4%, Wamstaker (1984) 3% and Sciarra and Valle (1977) 2%. There was only one case in our series with intra-uterine synechiae giving rise to excessive uterine bleeding, the corelation between these two conditions is unexplained.

The overall rate of tuberculosis for different indications like infertility, amenorrhea, abnormal uterine bleeding varies from 10.3% for Khandeparkar and Sheth (1990) to 2.3% for Trivedi (1985). Tuberculosis was detected in 4% cases in our series by presence of tubercles and caseous material in the uterine cavity.

The results regarding accuracy of

present study has proved the utility of hysteroscopy in the diagnosis of various endometrial lesions and intra-uterine tumours, the incidence of abnormal findings being 60% before histopathology diagnosis and 52% corrected. Lesions like tuberculosis of endometrium, atrophic Endometrium, submucous fibroids and synechiae were diagnosed with 100% accuracy. The hysteroscopic diagnosis proved to be totally inaccurate in 8% of cases. The clinical diagnosis was confirmed in 68% of cases and changed in 24% of cases.

### ACKNOWLEDGEMENT

We take this opportunity to thank the superintendent of St. George's Hospital for allowing us to publish the hospital data.

#### REFERENCES

1.

Baggish M. S., Barbot J. : Clin. Obstet. Gynec. : 26 (2), 219, 1983.

# JOURNAL OF OBSTETRICS AND GYNAECOLOGY OF INDIA

- 2. Battacharya B. K. : J. of Obstet. & Gynec. of India : 42, 373, 1992.
- 3. Corson S. L., Brooks P. G. : J. of Reprod. Med. : 28 (10) 654, 1983.
- 4. Khandeparkar S. S., Seth S. S. : J. of Obstet. & Gynec. India : 40, 564, 1990.
- 5. Khandwale S. S. : J. of Obstet. & Gynec. of India : 36, 6, 1986.
- Hamou J. in Hysteroscopy. Principals and practice. Edited by A. M. Siegler, H. J. Lindemann, Philadelphia, J. B. Lippin Cott : 1984, 68.
- Motashaw N. D., Dave S. : Reproduction : 161, 1990. Mangeshikar P. S., Sheth S. S. : J. Obstet. & Gynec. of India : 40, 451, 1990.
- Sciarra J. J. & Valle R. F. : J. of Obstet. & Gynec: : 127, 340, 1977.
- Trivedi P. H. & Raval M. Y. : J. Obstet. & Gynec of India : 35, 1127, 1985.
- Wamstaker K. in Hysteroscopy. Principles and practice. Edited by A. M. Siegler, H. J. Lindemann, Philadelphia, J. B. Lippin Cott - 128, 1984.

`							
			-10				

7.

8.

The latter with a state of the latter being a state of the latter being and the latter being a state of the latter

and Valle (1977) 29. There was only one make in our siving with inite-working sympthan giving net in derested there between the consistent hereits there for monitoric or supervisited.

The averal rate of advertations for differter inductions fairs with the second of the second of second strates and second of the second of the second second of the second of the second of the second second of the second of the second of the second second of the sec

THE VERTICAL PROPERTY OF THE PARTY OF

market is an an proving the attitute of market range in the sequence the attitute and market rankets of attacover being being stremarket being attacover being being strecover at a second the tabernal operations of the second strength of a strength of a moved to be could market attached by a stretic charge and a second the second stremark to be could market attached by a stretic charge at a second the second stretic charge at a second stretic charge at a second stretic charge at a second strepheness at a second strength of a second stress and charge at the second stress at a second stress and charge at the second stress at a second stress and charge at the second stress at a second stress and charge at the second stress at a second stress and charge at the second stress at a second stress and charge at the second stress at a second stress and charge at the second stress at a second stress and charge at the second stress at a second stress and charge at the second stress at a second stress and charge at the second stress at a second stress

# TAM JOGT MONTO

We have this apportunity in third, the

#### LADY ARTICLE

The last of the second of a lower firm a line