# Contents


**1. The Fallopian Tube: One Must Know ..... 1**
*Sushma Deshmukh*

**Tubes 2**
***Intramural segment (Interstitial) 3***
***Pretubal bulge 4***
***Isthmus 4***
***Ampulla 4***
***Infundibulum 4***
**Normal tubal physiology 6**
**Histology 6**
**How the tube is affected? 6**
***Affection of tube due to PID 8***
**Historical review for tubal function test 12**
**Types of tubal function tests 14**

**2. Hysterosalpingography as a Tubal Function Test ..... 17**
*Sushma Deshmukh*

**Interpretation of HSG 20**
***Principles of interpretation 20***
**Difficulties (Problems) 20**
**Complications 21**
***Therapeutic effects 23***
**Facts about normal HSG and fallopian tubes 23**
**Abnormal Tube and HSG 24**

**Genital tuberculosis, fallopian tube and HSG 24**
**Criticism 29**

**3. Sonosalpingography as a Tubal Function Test ..... 31**
*Sushma Deshmukh*

**Therapeutic effects 36**
**Abnormal tube, ultrasound and SSG 36**
**Criticism 37**
**Technical suggestions 37**

**4. Diagnostic Laparoscopy with Chromopertubation as a Tubal Function Test ..... 39**
*Sushma Deshmukh*

**Therapeutic effects 43**
**Abnormal tube in laparoscopy 45**
***Hydrosalpinx 45***
***Tuberculosis 46***

**5. Role of Salpingoscopy in Infertility Evaluation ..... 49**
*Yogendra Zhala*

**History 50**
***Our experience 50***
***Aim and objectives 51***
***Material and methods 51***
***Technique of salpingoscopy 51***
***Grade I 56***
***Grade II 56***
***Grade III 58***
***Grade IV 61***
***Grade V 61***
***Genital tuberculosis 61***
***Endosalpingeal polyp 61***
***Difficulties and pitfalls 64***

**6. Falloposcopy as a Tubal Function Test ..... 71**
*Sushma Deshmukh*

*Coaxial technique* 72
*The linear-everting catheter system technique* 74
**Normal structure** 75
**Difficulties and problems** 75
**Therapeutic effects** 76
**Abnormal tube and tubal endoscopy** 76

**7. *Chlamydia trachomatis* as Tubal Function Test ..... 79**
*Sushma Deshmukh*

**When to evaluate the patient?** 79
**How to evaluate?** 81
*Serological tests* 81
**Serological markers of persistence** 82
*Cervical samples* 83
*Correlation of Chlamydia trachomatis with fallopian tube* 83
**Follow-up** 84
**Limitations** 84
*Correlation of C. trachomatis antibody titer with hysterosalpingography* 85

**8. Radionuclide Hysterosalpingography (RN-HSG) ..... 87**
*Kaushik Chatterjee*

**Preparation of the patient** 88

**9. Selective Salpingography and Fallopian Tube Recanalization ..... 93**
*Rajesh Mundhada, Atul Rewatkar*

*Postprocedure management* 97
*Complications* 97

**10. Other Tubal Function Tests ..... 101**
*Sushma Deshmukh, Parimal Fuke*

**Hysterosalpingo-contrast-sonography (Hy-Co-Sy) 102**
*Requirements 102*
*Preparation of the patient 102*
**Fertiloscopy 104**
*Historical review 104*
*Precautions and advice to the patients 107*
*Difficult, problems and complications 107*
*Limitations 108*
**Tubal perfusion pressure 108**
**Estrogen receptors as a tubal function test 109**
*Role of ER in females 110*
**Magnetic resonance Hysterosalpingography 111**
*Technique and sequences 111*
*Discussion 112*
**64-Slice multidetector CT virtual hysterosalpingography 113**
**Pneumohysterosalpingography (PHS) 114**

**11. Correlation of Tubal Function Tests ..... 115**
*Sushma Deshmukh*

**HSG, SSG and diagnostic laparoscopy 116**
**SSG and laparoscopy 117**
**HSG and laparoscopy 117**
*Salpingoscopy HSG, SSG and laparoscopy with chromopertubation 118*
**Fertiloscopy and falloposcopy 120**
**Radiographic versus hysteroscopic techniques versus microsurgical anastomosis for proximal tubal blockage 121**
**Controversies 121**

**12. Application of Tubal Function Tests ..... 123**
*Sushma Deshmukh*

**Evaluation of a fallopian tube by TFT and application in infertile patient 124**
**How to apply TFT? 124**
**Various treatment options along with TFT 125**
*In proximal tubal block on HSG 125*
*Distal tubal block 128*
*Treatment of T-O mass and paratubal adhesions and improving T-O relationship 129*
*Treatment of hydrosalpinx 130*
**RCOG recommendations for tubal assessment 130**
*An European Society of Human Reproduction and Embryology (ESHRE) Guideline 131*

***Index*** ..... **133**