

Contents

Preface vii

Acknowledgements ix

1. How to look at a chest x-ray 1

Basic interpretation is easy 2

Technical quality 5

Scanning the posterior-anterior (PA) film 8

How to look at the lateral film 11

2. Localising lesions 13

The lungs 14

The heart 18

3. The CT scan 21

4. The white lung field 35

Collapse 36

Volume loss 48

Consolidation 51

Pneumocystis carinii
(*jiroveci*) pneumonia
(PCP) 55

Pleural effusion 57

Asbestos plaques 60

Mesothelioma 62

Pleural disease on a
CT scan 63

Lung nodule 66

Cavitating lung lesion 68

Left ventricular failure
(LVF) 70

Acute respiratory distress
syndrome (ARDS) 74

Bronchiectasis 77

Fibrosis 80

Chickenpox pneumonia 85

Miliary shadowing 87

5. The black lung field 93

Chronic obstructive pulmonary
disease (COPD) 94

Pneumothorax 98

Tension pneumothorax 100

Pulmonary embolus
(PE) 101

Mastectomy 104

6. The abnormal hilum 105

Unilateral hilar
enlargement 106

Bilateral hilar enlargement 108

7. The abnormal heart shadow 111

Atrial septal defect (ASD) 112

Mitral stenosis 113

Left ventricular
aneurysm 115

Pericardial effusion 117

8. The widened mediastinum 119

9. Abnormal ribs 125

Rib fractures 126

Metastatic deposits 128

10. Abnormal soft tissues 129

Surgical emphysema 130

11. The sick patient 133

Lines, tubes and
devices 134

The patient on intensive
care 138

Contents

12. The hidden abnormality 141

Pancoast's tumour 142

Hiatus hernia 143

Air under the diaphragm 144

13. The chest x-ray quiz 147

Questions 148

Answers 158

Index 167