

CONTENTS

<i>Chapter</i>	<i>Page</i>
1. Summary	1
2. Cervical Cancer in Elderly Women	3
Introduction	3
Cervical Neoplasia.....	3
Terminology	3
Incidence, Prevalence, and Risk	4
Natural History	11
Diagnosis and Treatment.....	12
Screening: The Pap Smear	17
Pap Smear Accuracy.....	17
Effectiveness of Screening	24
Screening Recommendations	29
Utilization of Screening by the Elderly	32
Conclusions	33
3. The Cost-Effectiveness of Screening in Elderly Women	35
Introduction	35
The Cost-Effectiveness Model.....	35
Description	35
Assumptions	36
Results	41
Conclusions.....	47
Implications for Medicare	48
Coverage Considerations	48
Quality and Reimbursement Considerations	49
Resource Considerations.....	50
<i>Appendix</i>	
A. Advisory Panel.....	51
B. Acknowledgments	52
C. Expert Panel	54
D. Review of Estimates of Progression Probabilities and Duration of States of Cervical Neoplasia.....	55
E. Markov Models	60
F. Basis for Input Assumptions and Calculation of Cost Components in the Cost-Effectiveness Model	62
Abbreviations	75
References	76

Boxes

<i>Box</i>	<i>Page</i>
A. Human Papilloma Virus and Cervical Cancer	10
B. Other Potential Screening Technologies.....	18
C. Types of Bias in the Evaluation of Screening Programs.....	25

Tables

<i>Table</i>	<i>Page</i>
1. Annual Incidence of CIN, CIS, and Invasive Cervical Cancer in Elderly Women	5
2. Prevalence of CIN, CIS, and Invasive Cervical Cancer in Elderly Women	6
3. Cervical Cancer Mortality, 1973-85.....	8
4. Selected Prospective Studies of Progression/Regression of Cervical Neoplasia.....	13
5. Duration of Cervical Neoplasia: Selected Study Characteristics	14
6. Duration of Cervical Neoplasia: Findings.....	15
7. Studies Assessing the Accuracy of the Pap Smear.....	20
8. Case-Control Studies of Pap Smear Effectiveness	28
9. Recommendations for Cervical Cancer Screening	30
10. Utilization of Routine Pap Smear Screening	32
11. Cost-Effectiveness Model Input Data Assumptions	37
12. Summary of Cost Estimates for Different Components of Care.....	39
13. Model Results: Life-Years Saved.....	41
14. Model Results: Numbers of Smears Taken and Cases Detected.....	42
15. Model Results: Costs	43
16. Cost-Effectiveness of Screening Under Alternative Screening Assumptions: Base Case	43
17. Cost-Effectiveness Model Input Data Assumptions Selected Sensitivity Analyses	45
18. Cost-Effectiveness of Screening Under Alternative Screening Assumptions: Selected Sensitivity Analyses	46
19. Prices for Services Related to Cervical Cancer	67
20. Estimated Costs of Diagnosing and Treating Cervical Intraepithelial Neoplasia.....	68
21. Estimated Costs of Diagnosing and Treating Carcinoma <i>In Situ</i>	69
22. Estimated Costs of Diagnostic Admission for Cervical Cancer.....	70
23. Estimated Costs of Diagnosing and Treating Early Invasive Cervical Cancer.....	71
24. Estimated Costs of Diagnosing and Treating Late Invasive Cervical Cancer	72
25. Estimated Costs of Followup Care for CIN and CIS	73
26. Estimated Costs of Followup Care for Invasive Cervical Cancer	74

Figure

<i>Figure</i>	
1. Calculation of Sensitivity and Specificity.....	19