

LIST OF CONTENTS	PAGE
ACKNOWLEDGEMENTS	1
1. EXECUTIVE SUMMARY	2
2. INTRODUCTION	5
3. METHOD	8
3.1 Systematic Reviews and Information Syntheses	8
3.2 Assumptions	8
3.3 Comparisons	8
3.4 Search Strategy	9
3.5 Electronic Database Searches	9
3.6 Hand Searching	10
3.7 Contacting Experts	10
3.8 Updating the Search	10
3.9 Inclusion Criteria	10
3.10 Exclusion Criteria	10
3.11 Assessment of Studies for Relevance	11
3.12 Assessment of Studies for Inclusion	11
3.13 Data Abstraction and Tabulation	11
3.14 Outcome Measures	12
3.15 Process	12
3.16 Data Synthesis	14
3.17 Results	14
4. DIAGNOSIS AND SCREENING	15
4.1 Introduction	15
4.2 Dental Caries	16
4.3 Periodontal Conditions	18
4.4 Soft Tissue Diagnosis	19
4.5 Slide Tests	20
4.6 Temporo-Mandibular Disorders	20
4.7 Orthodontics	20
4.8 Discussion	20
4.9 Training PCDs	21
4.10 Study Design	22
4.11 Conclusions	22
5. TECHNICAL COMPETENCE	24
5.1 Introduction	24
5.2 Technical Competence in Carrying Out Complete Restorations	28
5.3 Technical Competence in Periodontics	29
5.4 Technical Competence in the Clinical Aspects of Denture Provision	30
5.5 Technical Competence in Orthodontics	30
5.6 Technical Competence in the Preventive Therapies, Fissure Sealants, Atraumatic Restorative Treatment (ART)	30
5.7 Discussion	32
5.8 Conclusions	33

	PAGE
6. ORAL HEALTH PROMOTION	35
6.1 Introduction	35
6.2 Oral Health Education	35
6.3 Smoking Cessation Advice	36
6.4 Discussion of Studies on Oral Health Education	38
6.5 Conclusions	39
7. ACCEPTABILITY	40
7.1 Introduction	40
7.2 Acceptability to Patients of Expanded-Duty Dental Nurses	40
7.3 Acceptability of Expanded-duty Dental Hygienists to Patients	40
7.4 Acceptability of Expanded-Duty Dental Nurses and Expanded-Duty Dental Hygienists	41
7.5 Acceptability of Clinical Dental Technicians and Dentists	41
7.6 Discussion of Studies on Acceptability	42
7.7 Conclusions	43
8. PRODUCTIVITY	44
8.1 Introduction	44
8.2 Methods	44
8.3 Incremental Studies of General PCDs	44
8.4 Incremental Studies in Periodontics	46
8.5 Computer Simulations and Modelling	51
8.6 Economic Modelling	52
8.7 Quantitative Synthesis of Findings	54
8.8 Discussion	60
9. SUMMARY OF FINDINGS	62
10. RECOMMENDATIONS	65
APPENDICES	
1. Medline Search Strategy	66
2. Excluded and Unobtainable Studies	67
3. Data Abstraction Form	80
4. Glossary of Terms for Dentists and the Professionals Complementary to Dentistry (Dental Auxiliaries)	82
5. Included Studies – Diagnosis	83
6. Included Studies – Technical Competence	92
7. Included Studies - Oral Health Promotion	106
8. Included Studies - Acceptability	110
9. Included Studies - Productivity	117
10. Bibliography	132

LIST OF TABLES

1.	Studies Identified in Each Database	14
2.	Diagnosis: Number and Country of Included Studies	16
3.	Technical Competence: Number and Country of Included Studies	24
4.	Oral Health Promotion: Number and Country of Included Studies	35
5.	Acceptability: Number and Country of Included Studies	40
6.	Productivity: Number and Country of Included Studies	45
7.	Percentage Increase in Output from Marginal EDDN: Meta-Analysis	56
8.	Percentage Increase in Output from Marginal DN: Meta-Analysis	58
9.	Percentage Increase in Output from Marginal DH: Meta-Analysis	59
10.	Percentage Increase in Output from Marginal PCD: Estimates from Meta-Analysis, Weighted and Unweighted Analyses	60

LIST OF FIGURES

1.	The Review Process	13
2.	Marginal EDDN: Cochrane Plot of Effect Sizes – Random Effects Model	56
3.	Marginal EDDN: Funnel Plot for Detecting Bias in Meta-Analysis	57
4.	Marginal DN: Cochrane Plot of Effect Sizes – Random Effects Model	58
5.	Marginal DN: Funnel Plot for Detecting Bias in Meta-Analysis	59
6.	Decade of Study Publication	62