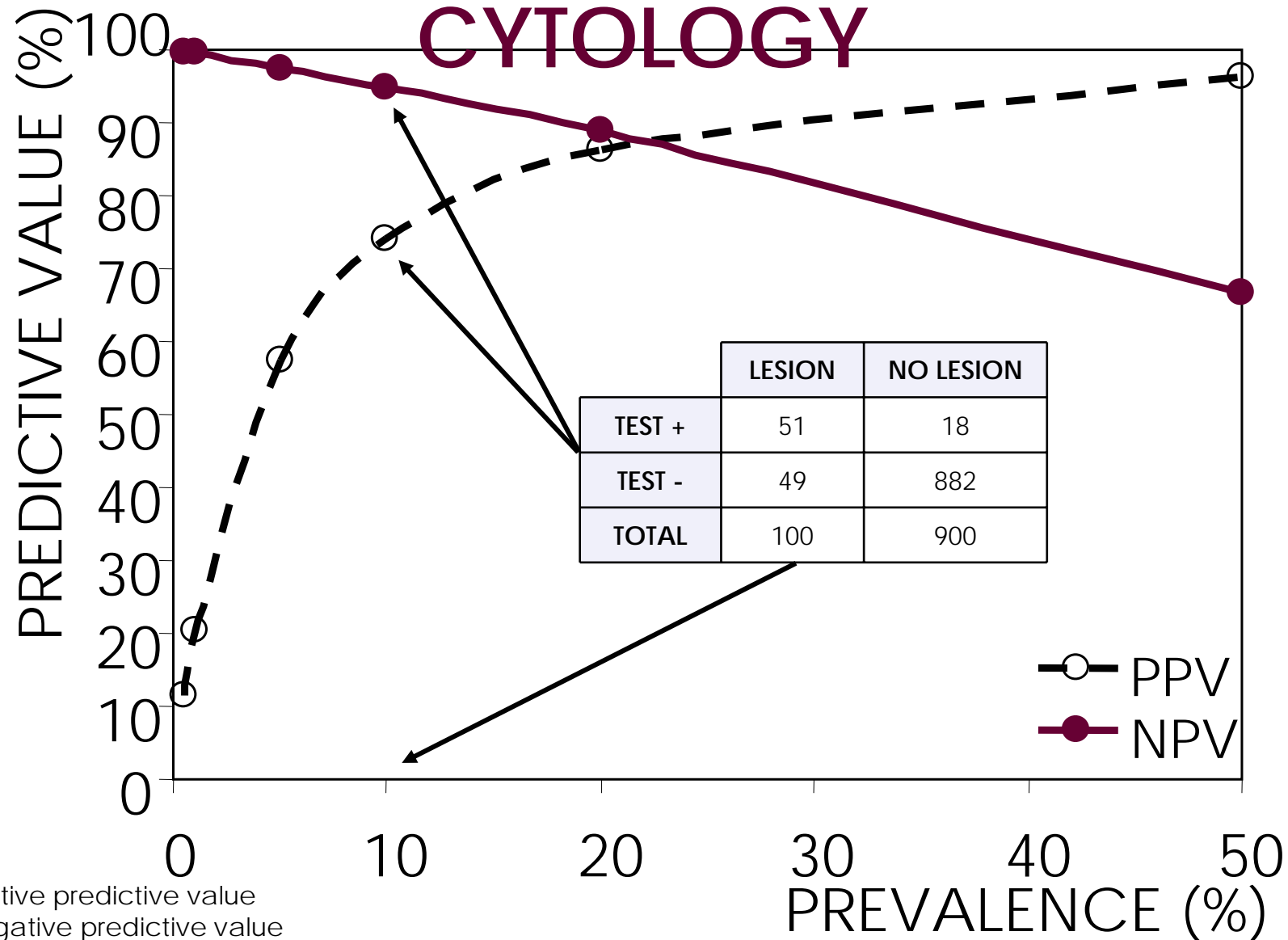
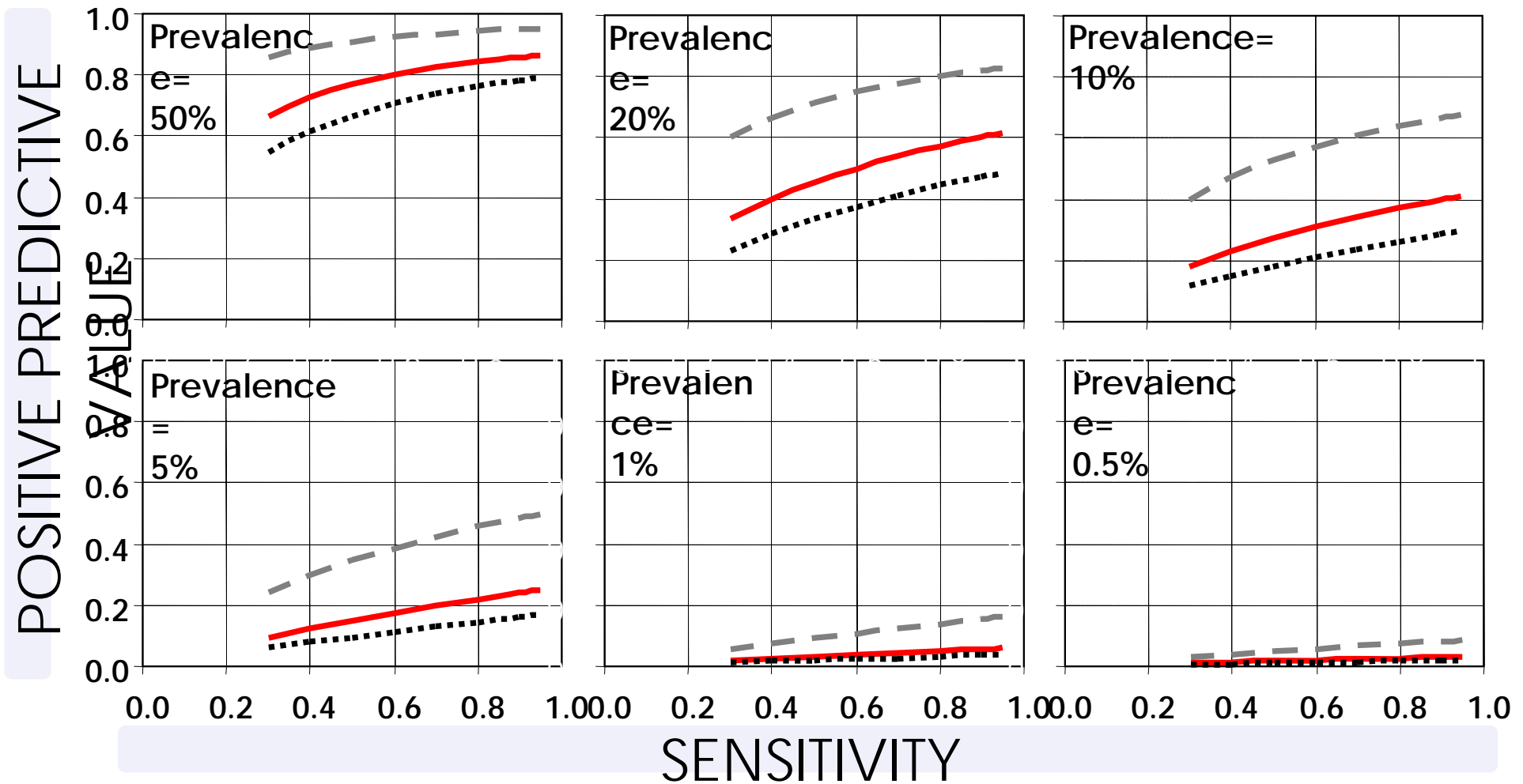


IMPACT OF THE VARIATIONS IN LESION PREVALENCE ON PPV AND NPV FOR CYTOLOGY



PPV: Positive predictive value
NPV: Negative predictive value

JOINT EFFECTS OF CHANGES IN SENSITIVITY, SPECIFICITY, AND LESION PREVALENCE ON THE POSITIVE PREDICTIVE VALUE OF A SCREENING TEST



*Specificity: dashed grey line: 95%; solid red line: 85%; dotted black line: 75%)



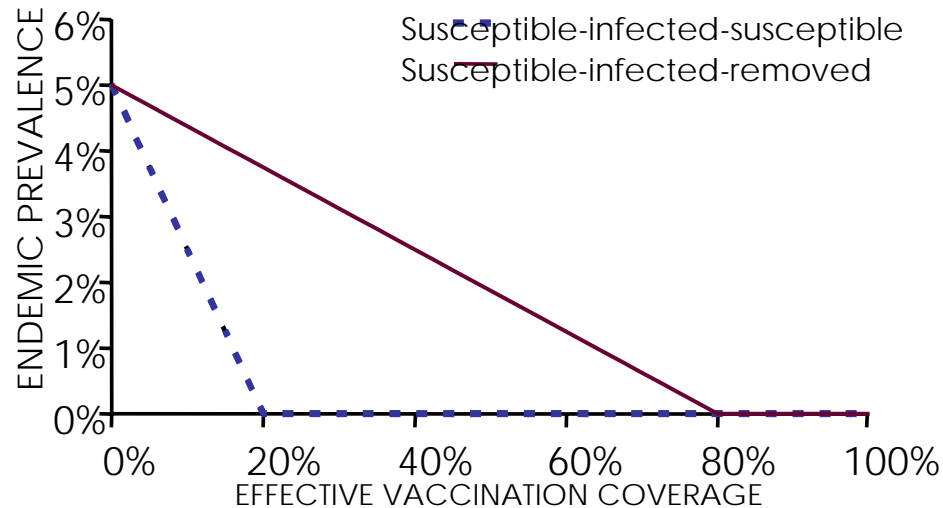
CHAPTER 21: Modelling the impact of HPV vaccines on cervical cancer and screening programmes

Geoffrey P. Garnett, Jane J. Kim, Katherine French, Sue J. Goldie

MODEL ASSUMPTIONS ON THE IMPACT OF VACCINATION IN SIMPLE MODELS OF INFECTION

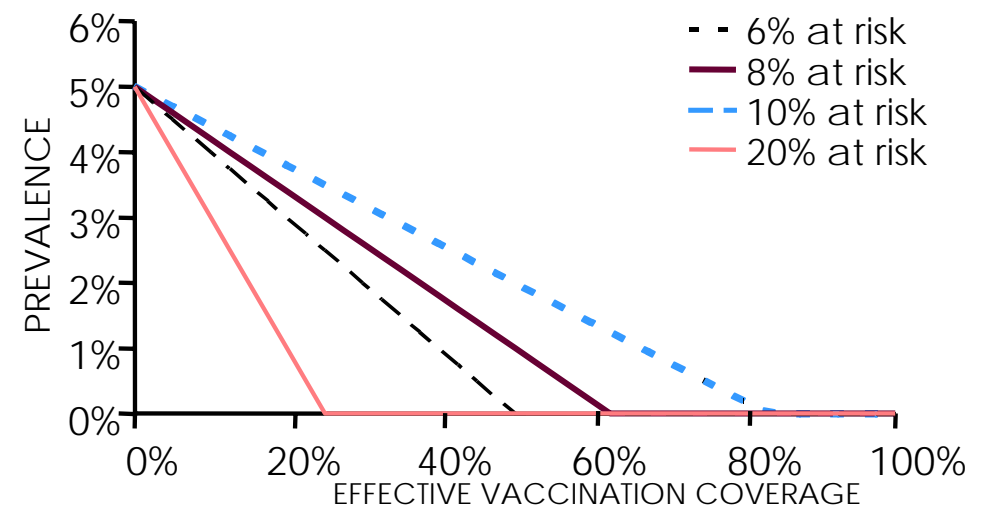
(A)

IMPACT OF VACCINE UNDER ASSUMPTIONS ABOUT
NATURALLY DERIVED IMMUNITY



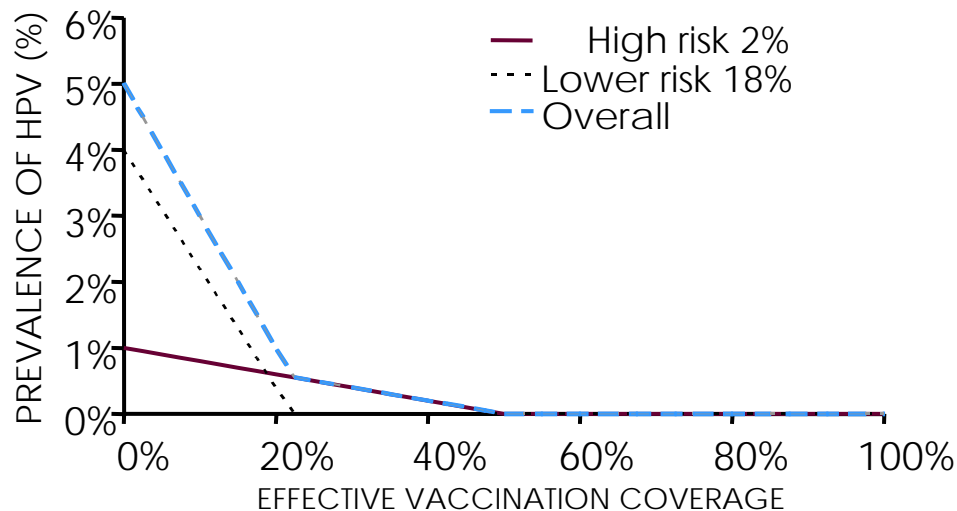
(B)

IMPACT OF HETEROGENEITY IN RISK ON THE IMPACT
OF VACCINE COVERAGE



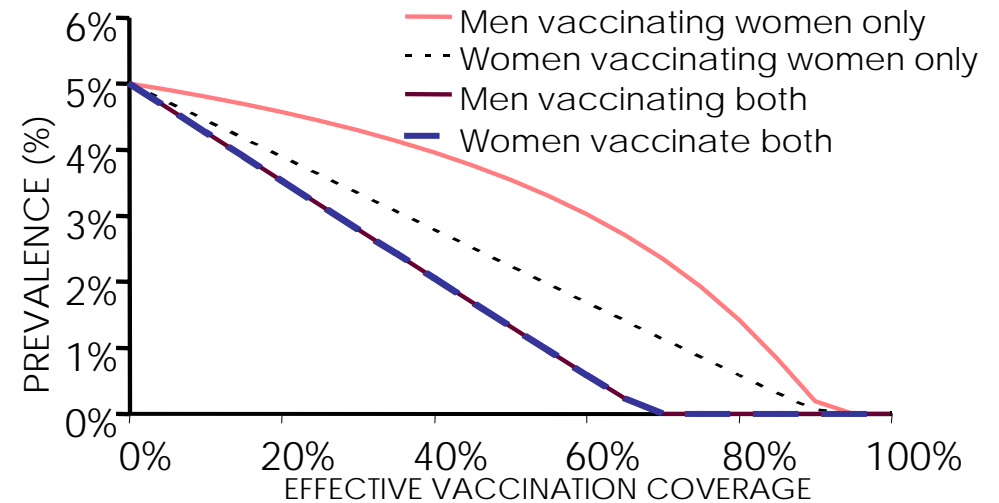
(C)

IMPACT OF VACCINE COVERAGE IN MULTIPLE RISK GROUPS

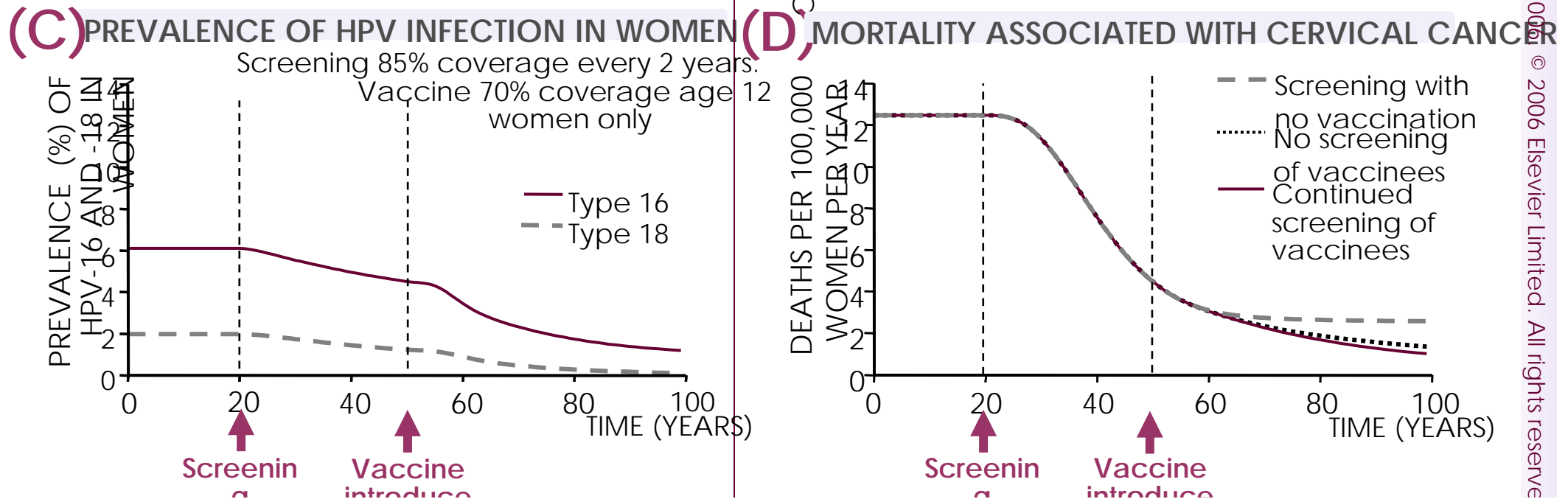
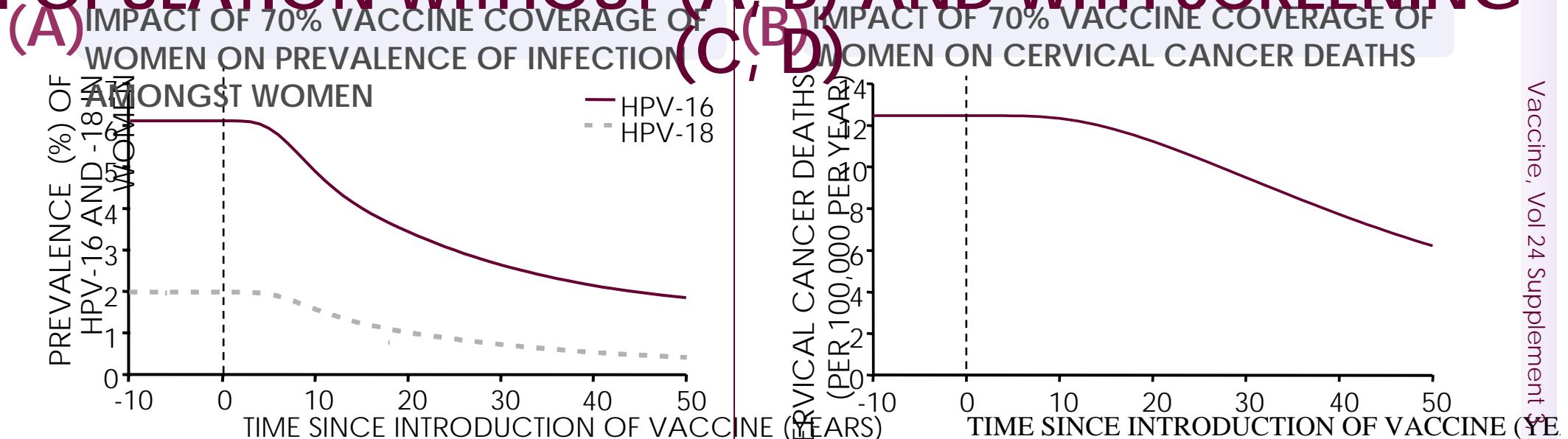


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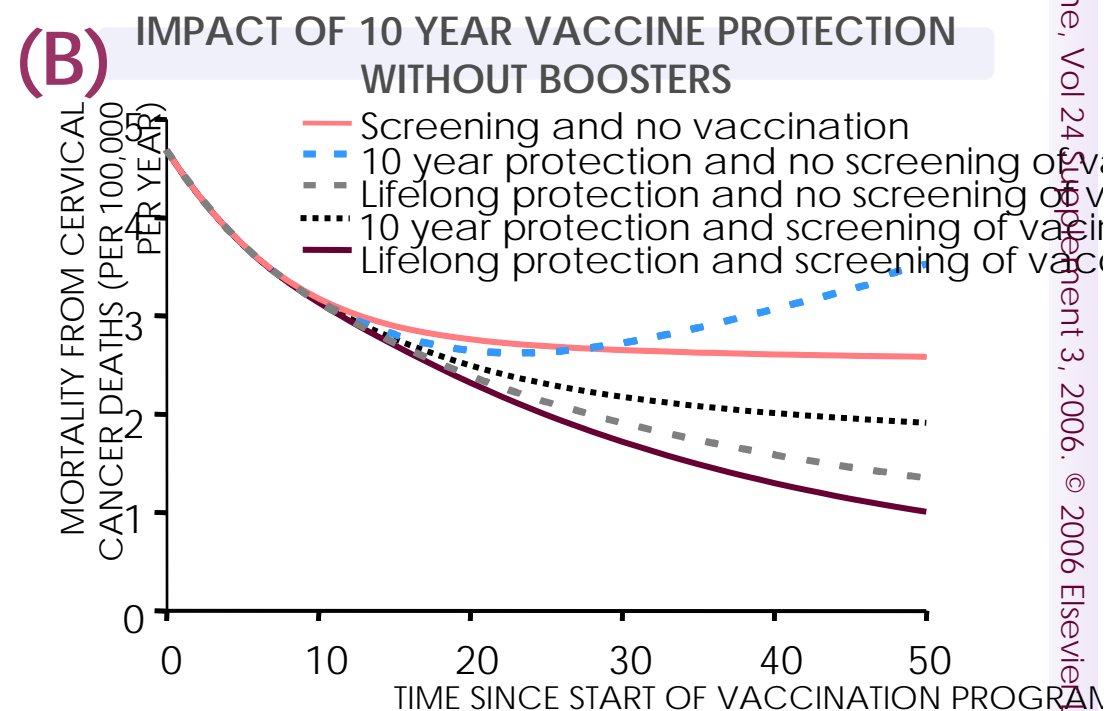
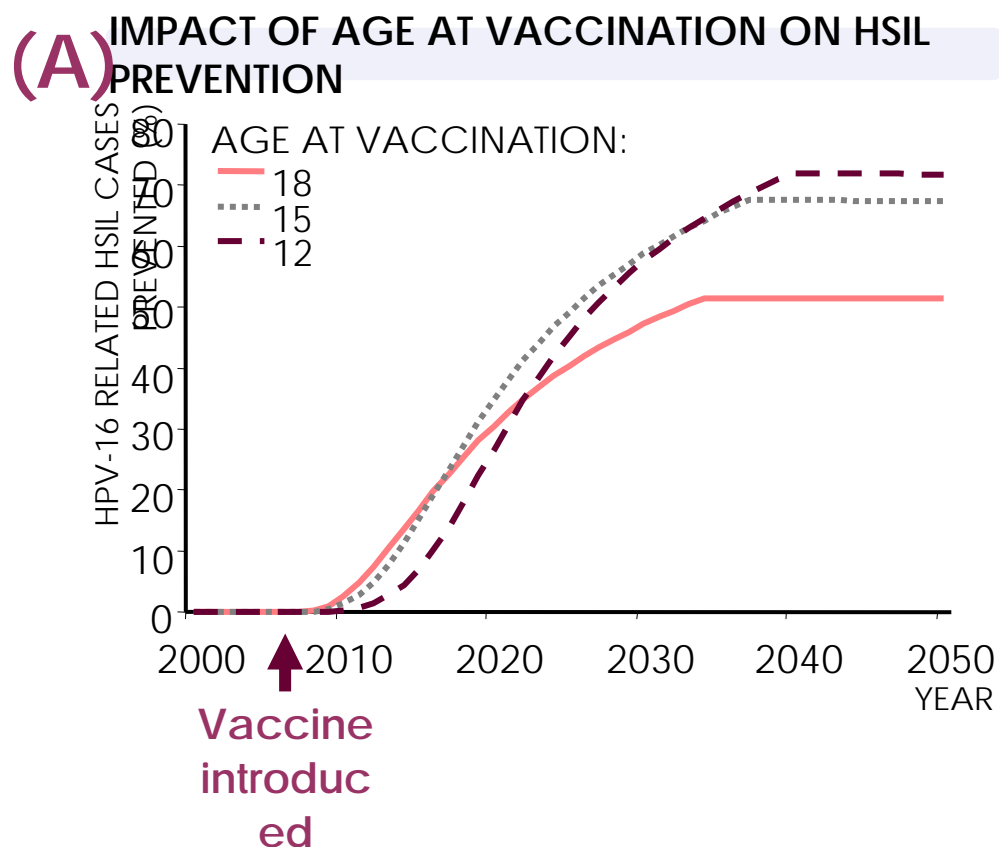
IMPACT OF SINGLE SEX VERSUS BOTH SEX VACCINATION



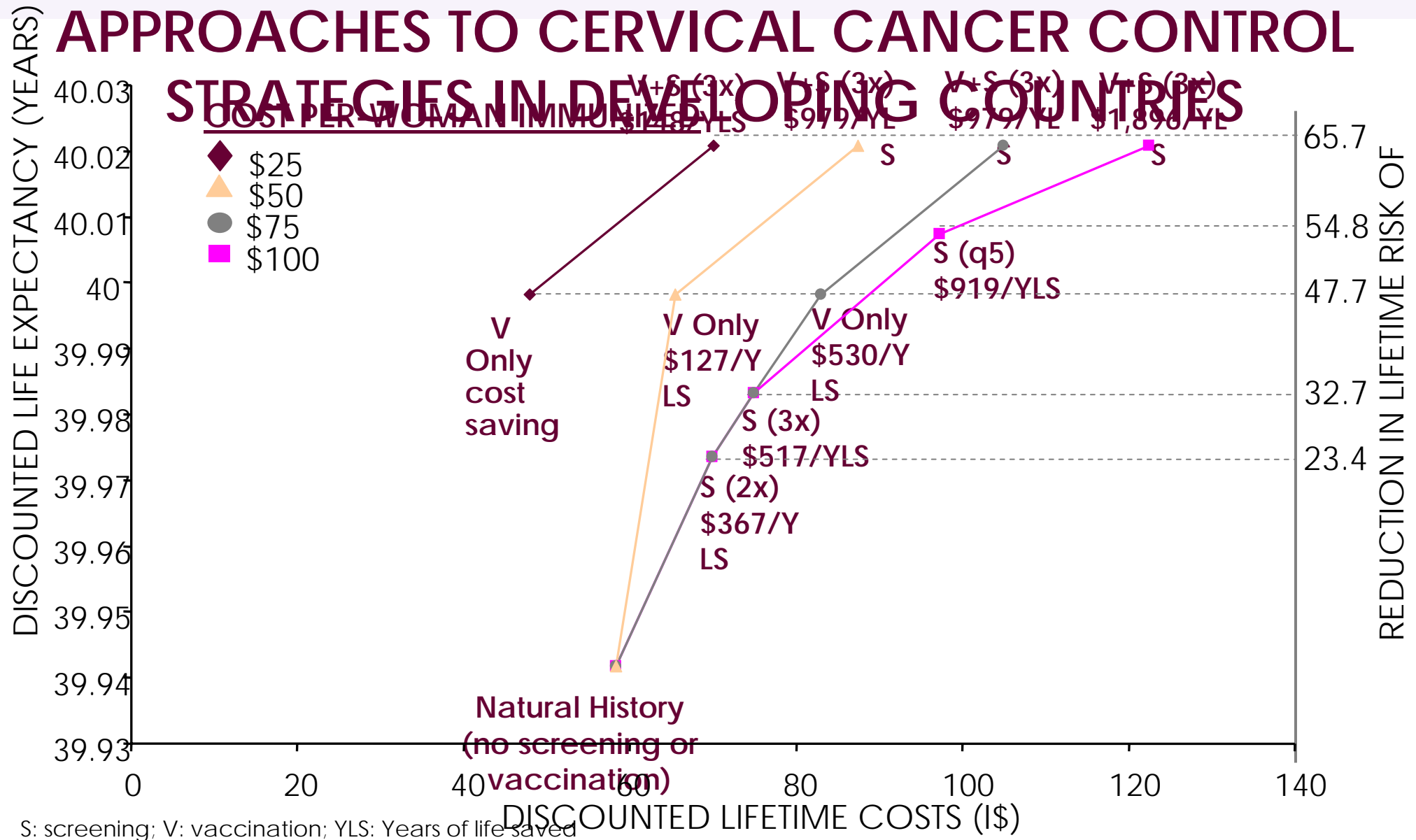
IMPACT OF A TYPE 16 AND 18 HPV VACCINE ON A POPULATION WITHOUT (A, B) AND WITH SCREENING (C, D)



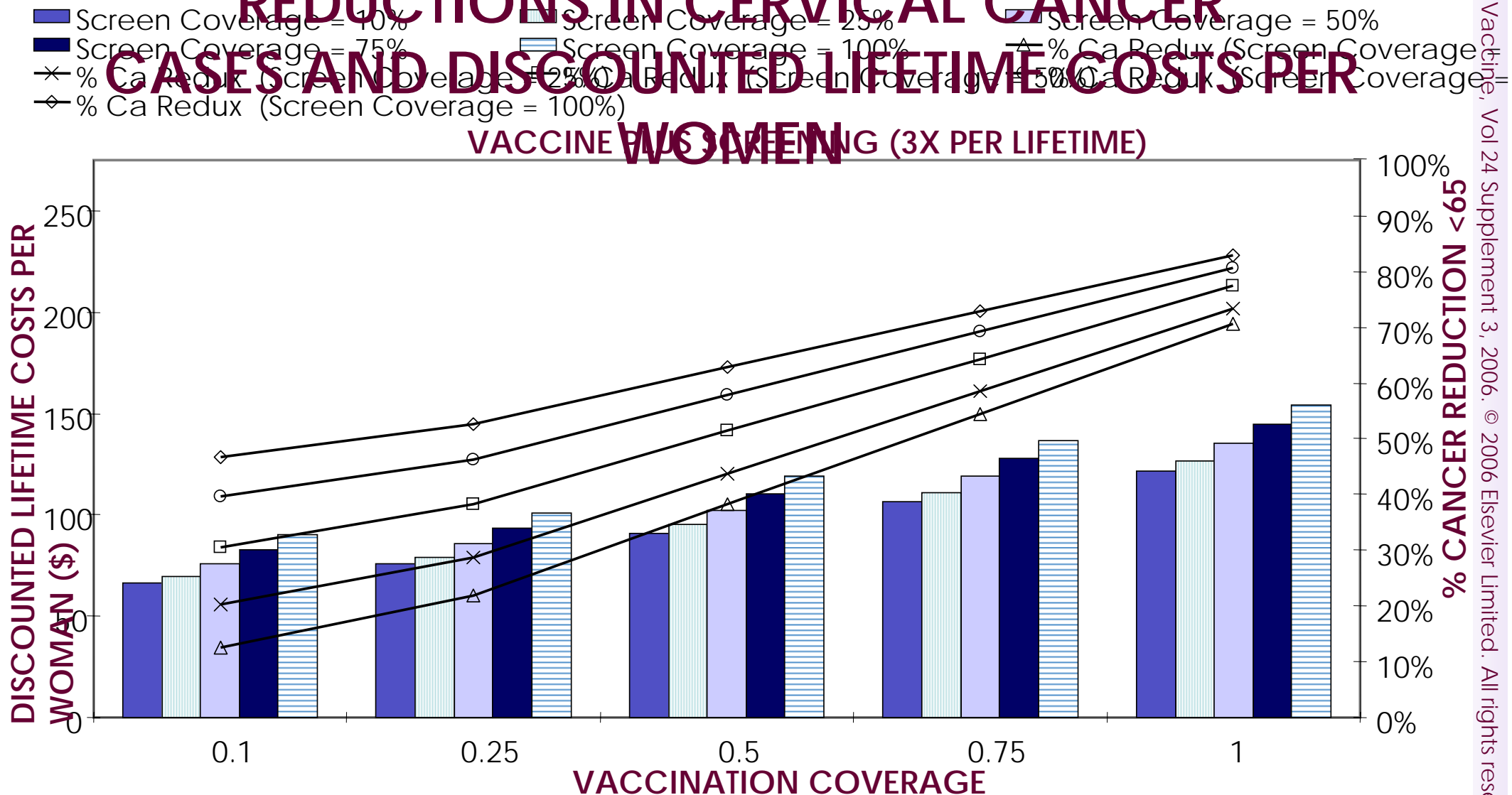
IMPACT OF AGE AT VACCINATION AND DURATION OF VACCINE DERIVED PROTECTION WITH A HPV 16 AND 18 VACCINE



EFFICIENCY CURVES DEPICTING INCREMENTAL COST EFFECTIVE RATIO (CER) ASSOCIATED WITH DIFFERENT APPROACHES TO CERVICAL CANCER CONTROL STRATEGIES IN DEVELOPING COUNTRIES

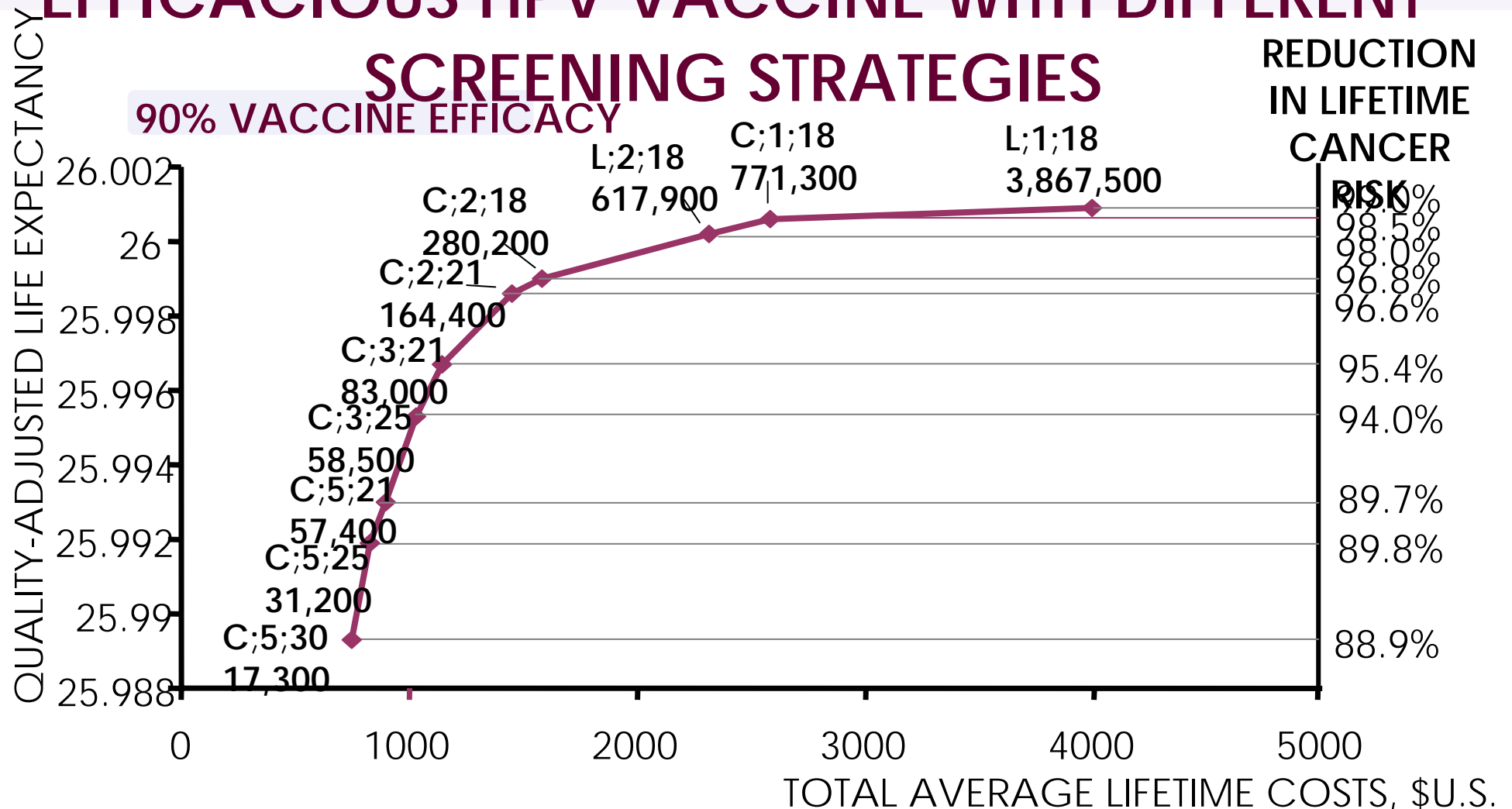


IMPACT OF VACCINATION COVERAGE AND SCREENING THREE TIMES PER LIFETIME ON REDUCTIONS IN CERVICAL CANCER



Ca Redux: incremental cancer reduction

AN EFFICIENCY CURVE FOR COMBINING A 90% EFFICACIOUS HPV VACCINE WITH DIFFERENT SCREENING STRATEGIES



KEY:

For example: C;5;30, 17,300 is C (conventional cytology); 5 (5-year screening interval) ; 30 (30 age at initiating screening; 17,300 (Cost-effectiveness ratio)

C-conventional cytology; L – liquid based cytology;

Screening interval; Age at initiating screening

Adapted from Goldie SJ, *et al.* J Natl Cancer Inst 2004;96(8):604–15

SECTION V



PUBLIC HEALTH ASPECTS OF HPV VACCINE INTRODUCTION

HPV VACCINES AND SCREENING IN THE PREVENTION OF CERVICAL CANCER

A MONOGRAPHIC SUPPLEMENT OF THE
JOURNAL VACCINE

F. Xavier Bosch, Jack Cuzick, John T. Schiller, Geoffrey P. Garnett, André Meheus, Eduardo L. Franco, Thomas C. Wright