INTRODUCTION

S261 Challenges in the Development, Licensure, and Use of Combination Vaccines
Alicia S. Postema, Martin G. Myers, and Robert F. Breiman

S267 Prelicensure Evaluation of Combination Vaccines
Karen L. Goldenthal, Lydia A. Falk, Leslie Ball, and Antonia Geber

IMMUNOGENICITY

S274 Development, Acceptance, and Use of Immunologic Correlates of Protection in Monitoring the Effectiveness of Combination Vaccines
Kathryn M. Edwards

S278 Assessing Efficacy of Haemophilus influenzae Type b Combination Vaccines
Dan M. Granoff

S288 How to Make Sense of Pertussis Immunogenicity Data
Patrick Olin, Hans O. Hallander, Lennart Gustafsson, Elisabeth Reizenstein, and Jann Storsaeter

S292 Bridging Phase 2 and Phase 3 Pneumococcal Immunologic Data for Future Combination Vaccines
Helena Käyhty and Heidi Åhman

S299 Evaluating the Immune Response to Combination Vaccines
Leslie K. Ball, Lydia A. Falk, A. Dale Horne, and Theresa M. Finn

S306 Analysis of Studies to Evaluate Immune Response to Combination Vaccines
A. Dale Horne, Peter A. Lachenbruch, Pamela R. Getson, and Henry S. Hsu

SAFETY

S312 Combination Vaccines: Defining and Addressing Current Safety Concerns
Neal A. Halsey

S319 Evaluating the Safety of Combination Vaccines
Susan S. Ellenberg

S323 Perspectives on the Design and Analysis of Prelicensure Trials: Bridging the Gap to Postlicensure Studies
Steven Black

S327 Combination Vaccines: Postlicensure Safety Evaluation
Robert T. Chen, Vitali Pool, Hiroshi Takahashi, Bruce G. Weniger, and Bindi Patel

MANUFACTURING AND PUBLIC HEALTH

S334 Perspectives on the Manufacture of Combination Vaccines
John R. Vose

S340 Considerations for Combination Vaccine Development and Use in the Developing World
José Luis Di Fabio and Ciro de Quadros

MANUFACTURING CHALLENGES

S346 Manufacturing Issues Related to Combining Different Antigens: An Industry Perspective
J. Van Hoof

S351 Manufacturing Issues with Combining Different Antigens: A Regulatory Perspective
Lydia A. Falk, Juan Arconiega, and Loris McVittie

Thomas R. Monahan

S362 Potency Tests of Combination Vaccines
Rolf E. Taffs
IMPLEMENTATION CHALLENGES

S367 Combination Vaccines: Choices or Chaos?  
A Practitioner’s Perspective  
Chinh T. Le

SUMMARY

S372 Perspectives on the State of Combination Vaccines: Summary of the Rapporteur for the International Symposium on Combination Vaccines  
Alan R. Hinman