

## REFERENCES

1. Arthur D. Little, Inc., "Continuous Flow Blood Chemistry Analyzers," study for the National Science Foundation, Washington, D. C., December 1974.
2. Barnett, R. N., "Reliability of SMA-12 Blood Chemistry Test Profile," *J. A.M.A.* 233:911, 1975.
3. Belliveau, R. E., et al., "Evaluation of Profile Chemistry Screening of All Patients Admitted to a Community Hospital," *Am. J. Clin. Path.* 53: 447, 1970.
4. Berkeley Scientific Laboratories, "A Study of Automated Clinical Laboratory Systems," DHFW publication No. 72-3004 (Rockville, Md.: DHEW, 1971).
5. Broughton, P. M. G., "Evaluation of Analytical Methods in Clinical Chemistry," in *Progress in Clinical Pathology*, vol. 7. M. Stefanini (ed.) (New York: Grune & Stratton, 1978).
6. Butte, W., et al., "Results of an Evaluation of Creatine Kinase Isoenzyme Activities Comparing Different Commercial Test Kits," *Clin Chem* 23:1191 1977.
7. Carmalt M. H. B., et al., "Value of Routine Multiple Blood Tests in Patients Attending the General Practitioner," *Br. Med. J.* 1:620 1970.
8. Dixon, R. H., and Laszlo J., "Utilization of Clinical Chemistry Services by Medical House Staff," *Arch. Int. Med.* 134:1064 1974.
9. Durbridge T. C., et al., "Evaluation of Benefits of Screening Tests Done Immediately on Admission to Hospital," *Clin. Chem.* 22:968 1976.
10. E. I. du Pont de Nemours & Co., Wilmington, Del., personal communications and marketing materials, 1979.
11. Fineberg, H. V., "Clinical Chemistries: The High Cost of Low-Cost Diagnostic Tests," in *Medical Technology: The Culprit Behind Health Care Costs*, S. H. Altman and R. Blendon (eds.), proceedings of the 1977 Sun Valley Forum on National Health, DHFW publication No. (PHS) 79-3216 (Washington, D. C.: U.S. Government Printing Office, August 1977).
12. Fleeson, W. P., and Wenk, R. E., "Pitfalls of Mass Chemical Screening, Part 1," *Postgraduate Med.* 48:59 1970.
13. Frohlich J., et al., "Study of the Value of CPK and LDH Isoenzym Determinations in the Differential Diagnosis of Ischemic Chest Pain," *Clin. Biochem.* 11:232 1978.
14. Galen R. S., and Gambino S. R., *Beyond Normality: The Predictive Value and Efficiency of Medical Diagnoses* (New York: John Wiley & Sons, 1975).
15. Galen, R. S., et al., "Diagnosis of Acute Myocardial Infarction: Relative Efficiency of Serum Enzyme and Isoenzyme Measurements," *J. A.M.A.* 232: 145, 1975.
16. Gann, D., et al., "Optimal Enzyme Test Combination for Diagnosis of Acute Myocardial Infarction," *So. Med. J.* 71:1459, 1978.
17. Garfield, S. R., "Multiphasic Health Testing and Medical Care as a Right," *N. Eng. J. Med.* 283:1087, 1970.
18. Gerber, S. D., et al., "A Diagnostic Strategy for Myocardial Infarction," *J. Fare. Pract.* 9:201, 1979.
19. Gerry, G. A., "Decision Analysis: Principles for Clinical Application," in *Logic and Economics of Clinical Laboratory Use* E. S. Benson and M. Rubin (eds.) (New York: Elsevier, 1978).
20. Grande, P., et al., "Creatine Kinase MB Isoenzyme in Diagnosis of Acute Myocardial Infarction," *Acta Med. Scand.* 623:48 1978.
21. Hill, J. D., et al., "A Randomized Trial of Home-Versus-Hospital Management for Patients With Suspected Myocardial Infarction," *Lancet* 1:837 1978.
22. Holy, H. W., "Automation in the Clinical Chemistry Laboratory: An Instrument Manufacturer's Viewpoint," in *Recent Advances in Clinical Biochemistry*, K. G. M. M. Albert (ed.) (Edinburgh, Scotland: Churchill Livingston, 1978).
23. Hycel Inc., 10-K report filed with U.S. Securities and Exchange Commission, Washington, D. C., 1978.
24. \_\_\_\_\_, Houston, Tex., personal communications and marketing materials, 1979.
25. Kasanof, D. (ed.), "When To Act on Unexpected Laboratory Test Results," *Patient Care*, p. 14 Jan. 30, 1978.
26. Kraft J., et al., "Diagnostic Value for Acute Myocardial Infarction of Creatine Kinase and Lactate Dehydrogenase Isoenzymes Compared With Total Enzymes: Creatine Kinase Isoenzyme Specificity for Myocardial Damage," *Acta Med. Scand.* 203:167 1978.
27. Lederer W. H. et al., "A Column Chromatographic Method for the Combined Analysis of Creatine Kinase-MI (CK-MB) and Lactate Dehydrogenase 1, (LDH 1, 2) Isoenzymes," *Am. J. Clin. Path.* 66:425 1976.
28. Mather, A., "A Critical Approach to the Evaluation

- tion of Automated Systems in Clinical Chemistry," in *Progress in Clinical Pathology*, vol. 6, M. Stefanini and H. U. Isenberg (eds.) (New York: Grune & Stratton, 1975).
29. Mather, H. G., et al., "Myocardial Infarction: A Comparison Between Home and Hospital Care for Patients," *Br. Med. J.* 1:925, 1976.
  30. McLaughlin, C. P., "Technology and Medical Care Costs: Some Basic Evaluation Problems," *Economic and Business Bulletin*, p. 36, fall 1971.
  31. McNeil, B. J., et al., "Primer on Certain Elements of Medical Decision Making," *N. Eng. J. Med.* 293: 211, 1975.
  32. Moran, A. D., "Reducing Hospital Clinical Lab Costs Through Increased Outpatient Testing," *Hospital Progress*, p. 96, February 1974.
  33. Nierenberg, D. W., "False-Negative CPK's," *N. Eng. J. Med.* 297:894, 1977.
  34. Office of Technology Assessment, U.S. Congress, *Development of Medical Technologies: Opportunity for Assessment*, GPO stock No. 052-003-00217-5 (Washington, D. C.: U.S. Government Printing Office, August 1976).
  35. Pegels, C., et al., "Cost Effectiveness of Automating Chemistries," *Lab. Mgt.* 12:54, 1974.
  36. Rapaport, E., "Serum Enzymes and soenzymes in the Diagnosis of Acute Myocardial Infarction Part I: Serum Enzymes," *Mod. Con. Card. Dis.* 10:43, 1977.
  37. \_\_\_\_\_ "Serum Enzymes and soenzymes in the Diagnosis of Acute Myocardial Infarction, Part II: soenzymes," *Mod. Con. Card. Dis.* 16:47, 1977.
  38. Roark, S. E., et al., "Diagnosis of Acute Myocardial Infarction in a Community Hospital: Significance of  $\text{CPK-MB}$  Determination," *Circulation* 53:965, 1976.
  39. Roberts, R., et al., "Specificity of Elevated Serum MB Creatine Phosphokinase Activity in the Diagnosis of Acute Myocardial Infarction," *Am. J. Card.* 16:433, 1976.
  40. Roe, C. R., "Diagnosis of Myocardial Infarction by Serum soenzyme Analysis," *Ann. Clin. Lab. Sci.* 7:201, 1977.
  41. Schatz, N., *SMA-II Performance Characteristics*, "Advances in Automation, vol. 1 (Tarrytown, N. Y.: Mediad Inc., 1977).
  42. Schwartz, M. K., "Multiple Analyzers in Clinical Chemistry," in *Recent Advances in Clinical Biochemistry*, K. G. M. M. Alberti (ed.) (Edinburgh, Scotland: Churchill Livingstone, 1978).
  43. Speicher, C. E., et al., "An Automatic Clinical Analyzer: A Critical Evaluation," *Am. J. Clin. Path.* 57:643, 1972.
  44. Taylor, H. W., "A Computer Model in the Selection of Multiple Channel Analyzers," *Clin. Biochem.* 11:87, 1978.
  45. Technicon Corp., 10-K report filed with the U.S. Securities and Exchange Commission, Washington, D. C., 1978.
  46. \_\_\_\_\_, Tarrytown, N. Y., personal communications and marketing materials, 1979.
  47. Thibault, G. E., et al., "Bigelow Medical Intensive Care Unit 1977-1978," in *Milbank Project Progress Report* (Boston: Massachusetts General Hospital, Harvard Medical School, 1979). )
  48. Varat, M. A., and Mercer, D. W., "Cardiac Specific Creatine Phosphokinase Isoenzyme in the Diagnosis of Acute Myocardial Infarction," *Circulation* 51:855, 1974.
  49. Vecchio, T. J., "Predictive Value of a Single Diagnostic Test in Unselected Populations," *N. Eng. J. Med.* 271:1171, 1966.
  50. Weinstein, M. C., "Economic Evaluation of Medical Procedures and Technologies: Progress, Problems and Prospects," in *Medical Technology: Research Priorities*, J. L. Wagner (ed.) (Washington, D. C.: The Urban Institute, 1979).
  51. Weinstein, M. C., and Fineberg, H. V., "Cost-Effectiveness Analysis for Medical Practices: Appropriate Laboratory Utilization," in *Logic and Economics of Clinical Laboratory Use*, E. S. Benson and M. Rubin (eds.) (New York: Elsevier, 1978).
  52. Weinstein, M. C., and Stason, W. B., "Foundations of Cost-Effectiveness Analysis for Health and Medical Practices," *N. Eng. J. Med.* 296:716, 1977.
  53. Werner, M., "Economics of Microassays in the Clinical Laboratory," in *Microtechniques for the Clinical Laboratory*, M. Werner (ed.) (New York: John Wiley & Sons, 1976).
  54. Westgard, J. O., et al., "Performance Studies on the Technicon SMAC Analyzer: Precision and Comparison of Values With Methods in Routine Laboratory Service," *Clin. Chem.* 12:489, 1976.
  55. Whitby, L. G., "Automation in Clinical Chemistry: A Consideration of Cost Implications," *The Hospital* 3:89, 1967.