



Problem Solving for Immunization Programs Michael McQuestion

CASA Assignment: Using CASA to Analyze Provider Data

Instructions

Please complete both parts of this assignment: Part A and Part B. Some instructions require you to submit actual reports from CASA. You can do this by creating a screen capture of your work in the CASA program: While on the CASA screen that you would like to submit, press the Print Screen button on your keyboard. Then, use the Paste command in MS Word to paste the screen capture into an MS Word file. (Please use MS Word, if possible.) Before capture, be sure to click on the CASA screen output to magnify it enough to be legible.

Part A

In this assignment, you will utilize the CASA software to assess the performance of Public Health Clinic A.

1. **(20 points)** Create an Import Template, import the data from Clinic A, and create an Assessment Site file for Clinic A.
 - a. Print an Immunizations Up-to-Date report for Clinic A.
 - b. Print a Missing Immunizations report for Clinic A.

2. **(20 points)** Using the Reports/CASA Summary Report tool, produce a flow chart for immunization status of all children in Clinic A.

3. **(20 points)** Using the Reports/Coverage Report/Single Site menu, generate a Diagnostic report for the (4-3-1-3-3-1) combination among children 24 months and up seen by Clinic A.
 - a. What proportion of children 24 months or older whose immunizations began before age 3 months received the full (4-3-1-3-3-1) combination?
 - b. What was the proportion fully immunized (4-3-1-3-3-1) among those who started after 3 months? (Note your answers and comments and copy and paste the full report in your answer file.)

4. **(20 points)** Use the Report/Quick Count tool to:
 - a. Compute the proportion of children ages 24 - 35 months attending Clinic A who have received four doses of polio, 3 doses of DTP, and 1 dose of measles or MMR (4:3:1)
 - b. Compare the full immunization rates (4:3:1) of Clinic A children born Sept 96 - Mar 97 to those born March 97 - Aug 97. Discuss any differences.
 - c. Cross-tabulate Ethnicity Hispanic and full immunization (4:3:1) for all children 24 - 35 months of age. Interpret your findings.

5. **(20 points)** Using the Follow Up/Letters tool, generate a list of Clinic A children overdue for any immunization and recall letters addressed to their parents. Cut and paste the list and first letter into your answer file.

Part B

In this assignment, you will utilize the CASA software to compare the performances of Clinics A, B, C, and D.

You should have already imported the data from Clinics B, C, and D and created Assessment Site files for each. If you have not, you must do so now so that you can analyze the data from all four clinics.

1. **(20 points)** Compare coverage levels and look for any duplicate records.
 - a. Prepare a Reports/Coverage Comparison Report. Start by moving the Clinic A, B, C, and D files from the left window to the right. Choose 4:3:1 at age 24 months. What was the rank order of the clinics by coverage? Prepare a graph of the findings.
 - b. Perform a Report/Duplicate Client Listing analysis. Start by moving the Clinic A, B, C, and D files from the left window to the right. How many possible duplicate records are there? Include the report in your answer file.

2. **(40 points)** Use the Reports/Up To Date tool to compare performance in the four clinics.
 - a. What were the average ages (in months) at which children in each clinic had received the combination DTP3:OPV3:MMR1:HIB1:HB1?
 - b. What percentages of children in each clinic received the DTP3:OPV3:MMR1:HIB1:HB1 combination?
 - c. Interpret and contrast the two indicators. Include the relevant report pages in the answer file.