

We apply data to analyze  
compliance to national guidelines  
and the cost of non-compliance



## Navy Antibiotic Prescribing Practices and National Guidelines

Naval Medical Center Portsmouth's (NMCP) Pediatrics Department asked us to examine whether providers based in Hampton Roads prescribed narrow spectrum antibiotics according to national guidelines for bacterial infections and to calculate the cost of non-compliance.

The population included patients ages 18 and younger seen in Navy clinics in Hampton Roads from 2012-2014. From this snapshot, the analysis demonstrated the percentage of prescriptions that did not follow antibiotic guidelines, the associated excess costs, and how compliance varied across age groups, diagnoses, and clinics. We also determined that antibiotic prescriptions peaked from December-March and macrolides constituted most of the non-compliant prescriptions.

This analysis arms the Pediatrics Department with the evidence to develop a targeted intervention program to increase compliance and establishes a baseline to evaluate the effectiveness of that program once in place.

Have a similar question? Submit a project request. Our team of clinicians, epidemiologists, and health analysts is here to help: [usn.hampton-roads.navmcpubhlthcenpors.list.nmcpnc-haprojreg@mail.mil](mailto:usn.hampton-roads.navmcpubhlthcenpors.list.nmcpnc-haprojreg@mail.mil)

