Reporting Clinical Activity On Military Operations – Time For Some Standardisation

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This Journal has published a number of important papers that provide a snap shot of the overall clinical experience of the Army Medical Services during the early, warfighting, phase of Operation TELIC in Iraq (1-8). Overall, these papers are an important addition to the evidence base that illustrates the maxim ‘disease and non-battle injury generate a greater workload for the medical services than battle trauma’. This Journal has also published evidence of this maxim from the campaigns in the Balkans (9) and Exercise SAIF SERREA in Oman (10,11).

Since the Gulf War of 1991, all Western military medical services are being gradually re-engineered from the austere, surgically dominated systems of the Cold War to the multi-specialty, integrated systems required to support modern expeditionary military operations. As highlighted in a paper from the 1990s (12), we have a collective responsibility to produce a robust evidence base that supports this re-engineering.

Unfortunately, there has been an inconsistent approach between papers reporting clinical activity from overseas operations. This makes it difficult to aggregate this data through systematic review to provide the robust evidence base that can inform the further development of operational medical systems. It is unlikely that any single medical facility in a theatre of operations will have sight of the whole medical picture, and the variation in the number of headquarters and the rotation of headquarters during the life-time of an operation means that is unlikely that any single Commander Medical will have the whole longitudinal medical picture. Thus, the published medical literature will become a valuable and easily accessible part of the historical record (through PubMed). Therefore, it is vital that all papers reporting clinical activity from military operations are both factually and scientifically complete and valid. I suggest that there are 3 essential components to such reports; description of data sources, clinical activity reporting, and diagnostic coding. I will use examples from the papers cited to illustrate my case.

There are three common data sources for military medical papers: those collected personally (1-3) the admission and discharge record for a medical facility (4,10,11) and medical reports and returns (2,5). Datasets collected by individual clinicians will represent very short snapshots of the whole picture given the high turnover of clinical staff required to minimise skill fade as a result of time away from clinical practice. Thus, the last two are likely to be the main sources of data. There may be reasons why these sources do not provide a representative sample of the whole medical experience in a specific theatre. For example, Grainge and Heber’s paper (4) is based on the admission records of all cases seen at the Field Hospital in Shaibah Air Base, Basra. Initially the field hospital in this location was acting as a Role 2 facility with the UK Role 3 capability being provided by a hospital at Camp Coyote in Kuwait and PCRS Argus at sea (using the most recent NATO definitions (13)). When the warfighting phase of the operation was complete, the balance of medical effort shifted to Shaibah and the hospital in Camp Coyote closed. Compare this with Roberts et al’s paper (1) based on records from 202 Field Hospital that was initially established as the Role 3 facility in Camp Coyote and then the staff relieved the staff in 34 Field Hospital in Shaibah. Both papers are valuable but neither paper represents the whole clinical experience of physicians or intensivists on OP Telic. It would seem preferable to utilise data collected across a whole Theatre of Operations based on medical reports and returns (2,5) but, unfortunately, the current system does not provide the detailed clinical information that allows interpretation of the data by specialties within a clinical facility. Thus, the whole military medical record will be based around a combination of papers describing clinical activity from individual facilities and papers summarising medical reports and returns for the whole medical force within an operational theatre.

The aggregation of historical records is one vital method of estimating the rate of casualties to be expected from the risk of exposure to health threats faced by this a military population. Casualties are usually divided into Battle Casualties (BC), Disease and Non-Battle Injury. BC are further divided into Killed in Action (KIA), Captured and Missing in Action (CMIA), Wounded in Action (WIA) and Psychological casualties. Nuclear, Biological and Chemical (NBC) are considered separately (1). As our military medical systems become more refined (and more
There would seem to be considerable value returns within the NATO environment (13). This same system (called EPINATO) is effective in the secondary care environment based on ICD-10 (16) that has also proved (12). This has a system of diagnostic coding system for reporting primary care activity, authors will then wish to break this down by a clinical category. Many papers do this by clinical specialty (1,4,10) but it is important that any such categorisation is reproducible and comparable between reports. The J95 system was introduced in 1996 into the Army to provide a reliable system for reporting primary care activity (12). This has a system of diagnostic coding based on ICD-10 (16) that has also proved effective in the secondary care environment (9,11). This same system (called EPINATO) is the standard for medical reports and returns within the NATO environment (13). There would seem to be considerable value in authors using this as the baseline diagnostic coding system.

This Journal has an important role as the institutional memory for the practice of medicine within the military environment (17). I suggest that there would be value in disseminating guidance for authors and reviewers on the key components of papers that report clinical activity. I have described how the patient population of a clinical facility can vary during a military operation and suggest that the methods section of all papers should provide a full description of the data source used, a definition of the method used to determine the population at risk, and a description of the relationship of the data source with the population at risk. In order to enable comparisons between reports, the results section should code clinical diagnoses using the J97 codes as the first level with any further sub-division being based on ICD-10. Clinical activity by speciality or intervention should also follow a standard coding system such as OPCS 4 (18).

References


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