NATO STANDARD

AMedP-8.5

MINIMUM TEST REQUIREMENTS FOR LABORATORY UNITS OF IN THEATRE MILITARY MEDICAL TREATMENT FACILITIES (MTFs)

Edition A Version 2
OCTOBER 2017

NORTH ATLANTIC TREATY ORGANIZATION

ALLIED MEDICAL PUBLICATION

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Edvardas MAŽEIKIS
Major General, LTUAF
Director, NATO Standardization Office
RESERVED FOR NATIONAL LETTER OF PROMULGATION
RECORD OF RESERVATIONS

<table>
<thead>
<tr>
<th>CHAPTER</th>
<th>RECORD OF RESERVATION BY NATIONS</th>
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Note: The reservations listed on this page include only those that were recorded at time of promulgation and may not be complete. Refer to the NATO Standardization Document Database for the complete list of existing reservations.
INTENTIONALLY BLANK
# RECORD OF SPECIFIC RESERVATIONS

<table>
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<tr>
<th>[nation]</th>
<th>[detail of reservation]</th>
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</thead>
</table>
| DNK      | DNK does not consider the ability to perform manual readings WBC at R2LM to be a necessary requirement.  
           | DNK does not consider the ability to perform cardiac test and muscle damage markers at naval R2LM to be a necessary requirement. |
| FRA      | 2.1 France reserves the right to express the results of biological or biochemical tests in international units (IU) of the WHO International System of Units (SI) whenever conventional units (UC) are mentioned in the standard covered by STANAG 2571, i.e. AMedP 71. A conversion table UC-WHO SI could be added to AMedP 71 for convenience.  
           | 2.2 The measurement of haematocrit and hemoglobinemia at the level of Role 1 at an early stage in management makes it “optional” rather than strictly “necessary” as a basis since it is linked to the conditions surrounding the medical deployment and to the therapeutic purposes. |
| HRV      | Approximate tests (multitest - tapes) will be used for the purposes of laboratory diagnostics at ROLE 1 capabilities.  
           | For the purposes of laboratory diagnostics at the ROLE 2 LM MTF general laboratory unit will be used for performing hematological tests, biochemical tests of blood and urine, determining blood group and Rh factor, blood gas analysis, acid-base status and coagulogram. Microbiological laboratory with the possibility of serological and cooling chambers for storing samples remains as an option. |
| ITA      | ITA Navy considers the measurement of hematocrit and hemoglobinemia at the level of Role 1, at an early stage in management, "optional" rather than "strictly" necessary. |
| SVK      | To date, the Armed Forces of the Slovak Republic do not have the required capabilities in the extent and quality required. With a view to the fact that the ARmed Forces of the Slovak Republic currently have medical assets and capabilities of ROLE1 and ROLE2, The Slovak republic bwill not seek to meet the requirements posed medical assets of ROLE2LM and ROLE3. |

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CHAPTER 1  INTRODUCTION

1.1. RELATED DOCUMENTS

MC 326/3
STANAG 2228 - AJP-4-10 (B)
STANAG 2061
STANAG 2517
STANAG 2543
STANAG 2348
STANAG 2132

1.2. PRELIMINARY REMARKS

NATO with its new participants now has 29 member nations and many MTFs. NATO has various operations in different geographic areas which are currently taking place at the same time. NATO forces should be able to work together in a multinational environment to provide best medical care to their deployed forces. Considering the fact that there will be need of Health interoperability, the technical and nomenclature standards to be used for the exchange of medical data and health information between the deployable (Military) Health Information Systems (MHIS) of NATO members were agreed by Previous NATO documents. It was also agreed national systems can use their own standards but these systems must have the ability to transfer data to other national or NATO systems using the standards. Transfer of electronic information between nations, for the purpose of providing direct patient care or the transfer of population health information to the NATO commander will not be possible due to the fact that there is considerable variability in the health data, semantics, and technical information system architectures within NATO.

1.3. AIM

The aim of this Allied Medical Publication (AMedP) is to define the minimum requirements for providing laboratory services to personnel in theatre MTFs.

1.4. GENERAL

1. When a patient of one involved nation is treated in a theatre MTF of another nation, a laboratory record will be prepared for each patient according the standards annexed to this STANAG. This record will accompany the patient upon transfer between MTFs, and will be forwarded to the patients’ national military medical authority when the patient is discharged from the MTF.
2. All laboratory records of a patient prepared according to this STANAG should be transferred to the patients’ national military medical authorities in case of national demand. It is primarily a national responsibility to provide for an efficient medical support system including laboratory units. General medical support principles and policies for NATO are provided in MC 326 and doctrine is provided in AJP-4.10. Medical support must meet standards acceptable to all participating nations and provide a standard of medical care as close as possible to prevailing peacetime standards, taking into account the operational environment.

3. Nations are responsible for assigning the proper number of laboratory staff to conduct these tasks.

4. Pathology and other specialized clinical laboratory services are not included in this AMEDP. AMEDP-8.5 includes only the routine laboratory tests and the parameters which are used in theatre MTFs.
## ANNEX A MINIMUM TEST REQUIREMENTS OF MILITARY TREATMENT FACILITIES

<table>
<thead>
<tr>
<th>Test</th>
<th>Sample</th>
<th>Role 2B</th>
<th>Role 2E</th>
<th>Role 3</th>
</tr>
</thead>
<tbody>
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<td><strong>HAEMATOLOGY</strong></td>
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<tr>
<td>Leukocytes (WBC)</td>
<td>Blood</td>
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<td>✓</td>
<td>✓</td>
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<tr>
<td>Erythrocytes (RBC)</td>
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<td>✓</td>
<td>✓</td>
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<tr>
<td>Hemoglobin (Hb)</td>
<td>Blood</td>
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<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Hematocrit (Hct)</td>
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<td>Mean Corpuscular Volume (MCV)</td>
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<tr>
<td>Mean Corpuscular Hemoglobin (MCH)</td>
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<tr>
<td>Mean Platelet Volume (MPV)</td>
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<td>Platelets (PLT)</td>
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<td>✓</td>
<td>✓</td>
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<tr>
<td>WBC diff (Automated)</td>
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<td>✓</td>
<td>✓</td>
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<tr>
<td>WBC diff Manual Differential (Manually): Segs. Bands, Lymphs, Atypical Lymphs (if present), Eos, Basos, RBC Morphology, WBC Morphology, Plt Estimate (only by request for abnormal CBCs)</td>
<td>Blood</td>
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<td>✓</td>
<td>✓</td>
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<td><strong>BIOCHEMISTRY</strong></td>
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<td><strong>Renal function</strong></td>
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<tr>
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<td>Gamma GT</td>
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<tr>
<td>ALT/GPT</td>
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<tr>
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<td><strong>Cardiac tests and muscle damage markers</strong></td>
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<td>Total creatine kinase (CK)</td>
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<td>Pregnancy test (hCG)</td>
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<td>✓</td>
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</tr>
</tbody>
</table>

- All tests with a check mark are necessary, while the rest of them both included and not included in the table are optional.
• Since no test is necessary for Role 1 MTF, Role 1 has not been included in the Table.

• Since all microbiology tests were also optional in version A, they have been removed also from the table.
AMedP-8.5(A)(2)