

PATTAMA JAMPOLE : A STUDY ON THE PRODUCTION COST OF WHOLE BLOOD AND BLOOD DERIVATIVES OF NATIONAL BLOOD CENTRE, THAI RED CROSS SOCIETY. THESIS ADVISORS : PROF. DR. CHAIVEJ NUCHPRAYOON, ASS PROF. DUANGMANEE KOMARATHAT. 154 PP.

The purposes of this research are to collect the data on blood donation process, blood production, blood components and antiserum and to study the data on the production cost of products which use blood as raw material and the production cost of antiserum. This research result would be useful to the administrator of the National Blood Centre, Thai Red Cross Society in producing blood products and in controlling their production cost.

It is found that the whole blood production cost was 90.3203 baht in the fiscal year 1985 and 104.6147 baht in the fiscal year 1986. The production cost of blood components per bag was 57-72 baht in the fiscal year 1985 and 71-81 baht in the fiscal year 1986. The production cost of antisera using blood as raw material which are Anti-A<sub>1</sub>, Anti-B and Anti-AB per bottle was 46.46 baht in the fiscal year 1985 and 71.2930 baht in the fiscal year 1986. The production cost of Anti-H and Anti-A, using plant seeds as raw material per bottle was 39.99 baht in the fiscal year 1985 and 67.2258 baht in the fiscal year 1986. Antihuman Serum Anti-M and Anti-N uses rabbit blood as raw material. During the fiscal year 1985, the National Blood Centre produced only Antihuman Serum and the production cost was 129.57 baht per bottle. In the fiscal year 1986, the production cost of Antihuman Serum was 137.0494 per bottle and the production cost of Anti-M and Anti-N was 124.9154 baht per bottle.

The production costs of most products were static. In the fiscal years 1985 and 1986, 88 % of the whole blood production cost was static. In the fiscal year 1985, 97 % of the production cost of blood components was also static. In the fiscal year 1986, 92-93 % of the production cost of blood components was static. In the fiscal year 1985, 83-90 % of the antiserum production cost was static and in the fiscal year 1986, 78-96 % of the antiserum production cost was static.

The research results are ; the total production costs of the National Blood Centre, Thai Red Cross Society both in the fiscal years 1985 and 1986, divided into departmental, fixed and variable costs, total costs and production cost per unit, and problems and suggestions concerning the operation of the National Blood Centre.