CHAPTER 7
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The dilutions of streptokinase were made properly. Smaller amount of blood gave better sensitivity than larger amount. Further decrease of streptokinase concentration fails to dissolve the clots. *Terminalia belerica* shows remarkable antithrombotic and thrombolytic activity. Antithrombotic activity was very well seen in both aqueous and alcoholic extracts of *Terminalia belerica*. Thrombolytic activity of alcoholic extract of *Terminalia belerica* was less potent than aqueous extract. Both extracts were obtained from same source and under same conditions.

*Nigella sativa* does not show anti thrombotic activity but it might be interfering with clot formation phenomenon and delaying clot formation time. Alcoholic extract proved less potent than aqueous extract. Increased concentration of extracts may show the desired activity as it’s indicated by results. As it is predictable, increase in dilutions were decreasing the potential of activity. Both extracts were well dissolved in normal saline.

The plant *Nepeta hindostana* showed significant activity in both methods. Antithrombotic activity was seen in both aqueous and alcoholic extracts of *Nepeta hindostana*. Thrombolytic activity of alcoholic extract of *Nepeta hindostana* showed less potency than aqueous extract. Both extracts were obtained from same source and under same conditions. As it is predictable, increase in dilutions were decreasing the potential of activity. Both extracts were dissolved in normal saline.
The ethanolic extracts of all plants showed similar result as in case of methanolic extracts which had been done earlier.

TLC of plant extracts showed satisfactory extraction of materials as separated bands can be seen.

The plant *Nepeta hindostana* showed significant antiplatelet activity in both aqueous and alcoholic extract. Antiplatelet activity was seen in both aqueous and alcoholic extracts of *Terminalia belerica* also but alcoholic extract was less potent than aqueous extract. *Nigella sativa* did not show any significant activity in either aqueous or alcoholic extracts. The maximum used concentrations of *Nepeta hindostana* and *Terminalia belerica* showed more potency than standard. The study also reveals that the plant extracts showing antithrombotic activity also possess antiplatelet activity. Both extracts were obtained from same source and under same conditions. As it is predictable, increase in dilutions were decreasing the potential of activity. Both extracts were dissolved in normal saline.

Although results are good enough to show desired activity, but still not ready to be used as antithrombotic or thrombolytic because in-vivo studies still to be done.