Coagulation Interpretation Using a Web-based Reporting System
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**Background**

Web-based synoptic reporting systems have been successfully integrated into diverse fields of pathology. They improve efficiency and reduce typographic errors. Coagulation can be a challenging field for both practicing pathologists and trainees alike. A program that assists in formulating the best possible report in a short amount of time serves as both an educational tool for residents and a time management resource for practicing pathologists.

**Design**

We have developed a web-based synoptic reporting system composed of 118 coagulation report templates and 27 thromboelastograph report templates covering a wide range of findings (www.hemepathreview.com). The interactive coagulation panels consist of 29 findings which can be selected alone or in any combination. They include mixing study for PT/PTT, platelet aggregations, factor inhibitor screens, von Willebrand panel, and lupus anticoagulant (figure 1). The TEG panel allows for the selection of normal, low or high values for TEG parameters (figure 2). Once the selections are made, the report templates are displayed in a text window for editing.

**Results**

This web-based reporting system was put into place and used by residents on hematopathology starting July 2011. All reports were reviewed by faculty for accuracy and typographical errors before final verification. Evaluation via survey of the program by 24 residents and 2 attending pathologists has been unanimously positive. All reported this reporting system greatly improved turnaround time and accuracy. Typographic, grammatical errors, and exclusion of important information in the drafts were also decreased.

**Conclusions**

An easily accessible, user-friendly, and web-based synoptic reporting system for coagulation can be an asset to pathologists at any level of training. Survey data indicate that the program improves efficiency by saving time and reducing errors.

**References**