Overview

This page provides an access page to EKM Rules that have been previously configured for clients.

Standard Single Facility Rules

All of the action templates use the EKS_ORDER_ADDON_LABEL template to add an order on **including** the rules to add a Crossmatch order. As long as application flexing is set up to default the order provider as *~INHERIT* then the physician pull in the CT ratio report correctly.

Description	File	Notes
When a user results an ABORh order containing the field 'History Check' (excludes a neonate ABORh for efficiency) the system will place an ABORh Retype **on the same accession** if a crossmatch is active on the patient.	BB_RFLX_ABO_RETYPE	If a crossmatch is not active on the patient, it is assumed that a type and screen hold order is placed, in which a retype should not be done.
When a user results an ABORh order containing the field 'History Check' (excludes a neonate ABORh for efficiency) the system will place an ABORh Retype **on a different accession** if a crossmatch is active on the patient.	BB_RFLX_ABO_RETYPE	
When a user results an Antibody Screen order as positive the system will place an Antibody ID order on the same accession.	BB_RFLX_ABID	Three Antibody Screen orderables were built for this client, so the rule was designed to function for all three of them.
When a user results a DAT Poly order as positive the system will place a DAT IgG and DAT C3 order on the same accession.	BB_RFLX_DATDIFF	
When a user results a Fetal Screen order as positive the system will place a Kleihaeur-Betke order on the same accession.	BB_RFLX_KB	This rule will function properly if the KB order is either Gen Lab or Blood Bank.
When a user results a product order (Red Cells, Fresh Frozen Plasma, Platelets or Cryoprecipitate) which contains the DTA "Product Ready" as "Yes" the system will place a patient care order "Blood Product Ready"	BB_BLOOD_PRODUCT_READY	This rule fires a patient care order that the CareNet team builds a task on that will alert the nurse when blood is ready to pick-up. This alert **only** shows in CareCompass.
When a user results a product order (Red Cells, Fresh Frozen Plasma, Platelets or Cryoprecipitate) which contains the DTA "Product Ready" as "Yes" the system will place a patient care order "Blood Product Ready"	BCC_BLOOD_PRODUCT_READY	This rule fires a patient care order or a communication order that the CareNet team or FirstNet/PC Maternity builds a task on that will alert the nurse when blood is ready to pick-up. The rule is flexed based on encounter type - inpatients and outpatients are viewed in CareCompass, while emergency patients are viewed in FirstNet. Inpatient nurses use CareCompass, emergency nurses use the Tracking Board.
When a user adds a Red Cell order to their scratch pad in PowerChart, the system determines whether they have an active ABORh, Antibody Screen or Crossmatch order placed within the last 4 days. If they do not, it prompts the user with an EKS_FLEX message to place an order for a Type and Screen.	BB_VALID_SPEC_WARN	This rule is rule #1 used in conjunction with the two rules below. The rule flexes based on the patient's age - if the patient is under 4 months old it prompts the user to place a Type and Screen Infant order (to prevent users from having to cancel) - if the patient is over 4 months then the standard Type and Screen order is used.
When a user **logs in** an ABORh order that was placed by a physician simultaneously with a Red Cell and Antibody Screen order (most likely from a Blood Admin PowerPlan) the system will add a Crossmatch order to the same accession as the ABORh order.	BB_RFLX_XM_IMM	This is rule #2 used in conjunction with #1 and #3. The rule ensures no Crossmatch orders have already been placed. The rule is necessary for the scenario where a Type and Screen and RBC order are placed at the **same time**.

When a user places an order for Red Cells and an ABORh was placed within the last 4 days and a Crossmatch has not been placed the system adds on a Crossmatch order to the same accession.	BB_RFLX_XM_TS_HOLD	This is rule #3 used in conjunction with the two rules above. The rule is necessary for the scenario where a Type and Screen and RBC order are placed at **different times** (RBC is placed a day or so after the T&S order was placed). Based on the rule design, #2 and #3 will never order duplicate XM orders.
When a user calls a transfusion reaction and charts it in IView *or if they chart it in Bridge Transfusion and the interface sends it over* the system will place all of the required Blood Bank orders as part of the initial transfusion reaction workup.	BB_RFLX_TRXN	This rule is dependent on a number of factors, including the DTA type used in IView. This rule was designed for a DTA type of 'freetext' or 'text' - the EKS_CE_RESULTA_EVAL_E template could be used for 'Alpha'. Aside from implementing the rule, a number of other steps are required that can be found here.
When a user calls a transfusion reaction and charts it in IView *or if they chart it in Bridge Transfusion and the interface sends it over* the system will place all of the required Gen Lab orders as part of the initial transfusion reaction workup.	BB_RFLX_TRXN2	This is the same rule as BB_RFLX_TRXN, but it places a UA culture - a non Blood Bank test.

Custom Rules

Description	Ex. Rule	File	Notes
This custom program can be use as shown in BB_RFLX_XM to determine whether a patient has an active antibody. If the patient does not have an antibody then the template returns 'True'; if the patient has an antibody then the template returns false. Further customization can be done to qualify on antibody clinical significance.	BB_RFLX_XM	BB_ACTIVE_ABID_CHK	Antibodies such as "No ABID Present" or "Correct" need to be excluded otherwise the template will not function accurately. Installation instructions can be found here.

This custom program can be used as shown in BB_ADD_ABORH_RETYPE to determine whether a patient has a *historical* blood type in Millennium. If the patient has a historical blood type then the template returns 'True'.	BB_ADD_ABORH_RETYPE	BB_HX_ABO_CHK	Several design decisions need to be considered before implementing this rule. • Does the client perform type and screen holds? • Does the client use PPID? • Does the client want to flex an ABORh Retype and a .Hx Retype in a single rule? • Does the client want to limit the date range of the historical blood type? **If the answer to any of these questions is yes** then this custom rule may require further modification or it cannot function properly at all.
When a tech result an AG Type test, validate the pattern entered. If they entered an invalid pattern for the antigen entered, then prompt the user with a Discern Notify message telling them to change the result.	BB_AG_TYPE_MISMATCH	BB_OP_GET_PROD_NBR BB_VALIDATE_ANTIGEN	The example rule is an example how how the rule can be set up to flag invalid results. Groupings and additional action groups would be needed to truly validate a pattern entered.
When a user adds a Red Cell order to their scratch pad in PowerChart, the system determines whether the patient has a valid specimen or not. If they do not, the system prompts the user with an EKS_FLEX message to place an order for a Type and Screen.	BB_VALID_SPEC_WARN	BB_CALC_SPEC_EXPIRE	Specimen validity is determined by a number of factors. A full explanation of the custom program, rule and how to set it up can be found here.
When a nurse charts the Blood Unit # from a dynamic group in IView the system first determines if the product number was scanned (if it includes a "=" and "00"). If it was, it strips these characters and validates whether the product was dispensed to the patient. If the product does not match the product dispensed to the patient, the system notifies the nurse who charted the result to contact the Blood Bank with a Discern Notify. If the product was scanned in the rule will also strip the extra characters and modify the CLINICAL_EVENT table with the correct product number (so it can accurately be pulled into reports, used for additional qualifications etc).	BB_BLOOD_PROD_CHK	BB_VALID_PID	If a client has a BBID field on their dynamic group, it would be quite simple to modify this rule to validate they match.