Enhanced Patient Safety

Bluebird

Intuitive

Doctor's EMR



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Features

- With it's **intuitive** user interface Bluebird flattens the learning curve and provides doctors with the **best** possible IT **experience**
- Comprehensive clinical documentation with built in **clinical decision support** (CDS)
- **Secure** clinical cloud which is accessible using **any device** (PC, Mac, Tablet) from any location (rooms, hospital, home)
- Automated, secure backup of your patient data
- Integration with practice management (billing) systems
- Organized Patient information including:
    - Patient demographics
    - Core clinical information with 1 click drill down to detailed information
    - Specialty modules including obstetrics, infertility, oncology, renal, psychiatry, ENT, ophthalmology…
- Comprehensive clinical documentation engine for all specialties
- Procedure documentation
- Referral and consultation templates
- Lab integration with real time results
- Imaging integration
- Hospital pre-admission and surgical booking
- Hospital integration - see your **inpatients** remotely - Bluebird's **Window to the Ward** (requires a Bluebird enabled hospital)

Benefits

- **Efficient** workflow and ease of documentation means more free time
- **Organized** clinical notes
- **Reduced** medical legal **risk**
- **Enhanced** patient **safety**
- See and monitor inpatient care from the rooms, from home - Bluebird's **Window to the Ward**

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Introduction to the Bluebird Doctor's EMR

The Bluebird EMR (electronic medical record) for doctors was first released in 1994 and has built a loyal following. Unlike many other EMRs, Bluebird was designed by doctors for doctors with the primary aim of making clinicians more *efficient*. A core principle has always been *ease of use*. For 30 years we have excelled at empowering tech-naive doctors while providing advanced tools for power users.

The latest version is cloud based with an interface (API) that allows *all* practice management systems to integrate with the Bluebird clinical notes. That API enables the doctor's receptionist to update patient demographics in real time and indicate that the patient is waiting in the reception.

Besides *quickly* creating detailed clinical notes, the Bluebird EHR facilitates hospital pre-admission and consultation requests.

Bluebird integrates (in real time) with *all* the labs in Southern Africa (including the NHLS).

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Bluebird EMR Navigation Bar



Bluebird opens with the blue **Navigation Bar** at the top of the screen.
There are 6 Links on the left of the Navigation Bar:

- **Patients**: A list of the patients in this practice
- **Inbox**: A list of clinical communication that has come in to the practice (typically laboratory results, imaging reports, referrals and consults)
- **Alerts**: A list of alerts that the practice has elected to receive - for example abnormal labs
- **Tasks**: A list of tasks allocated to this doctor or to the practice nurse or receptionist
- **InPatients**: A list of your current inpatients (broken out by hospital and by ward)
- **Discharged**: A list of practice patients discharged from hospital

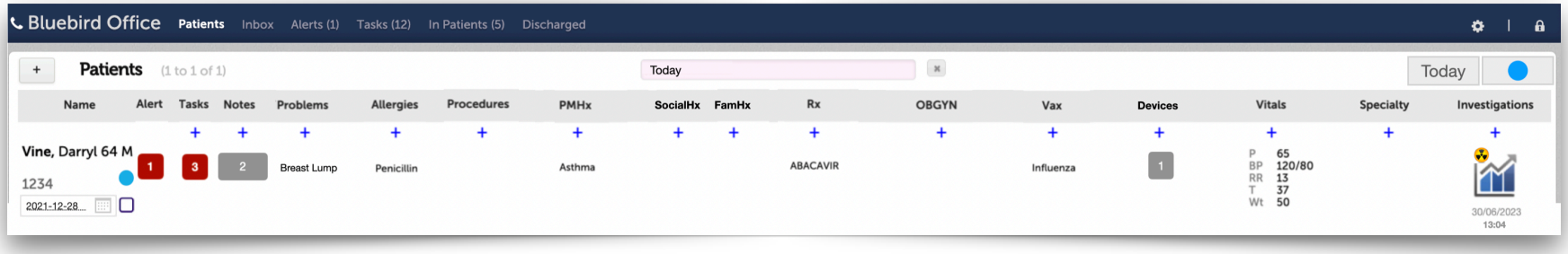
Each link will take one to the relevant *line list*.
One should deal with open Alerts urgently.
If there are open alerts, outstanding tasks, or patients in hospital there will be numbers (corresponding to the number of alerts, tasks or inpatients) shown in that link.

On the right of the Navigation Bar one finds 2 icons:

- **Preferences** (gear): This opens the page where the doctor records their email address, cell number (both used for urgent communication) their alert preferences and the format they wish to use to send emails and SMSes to patients
- **Log out** (padlock): This icon logs the Doctor out of Bluebird

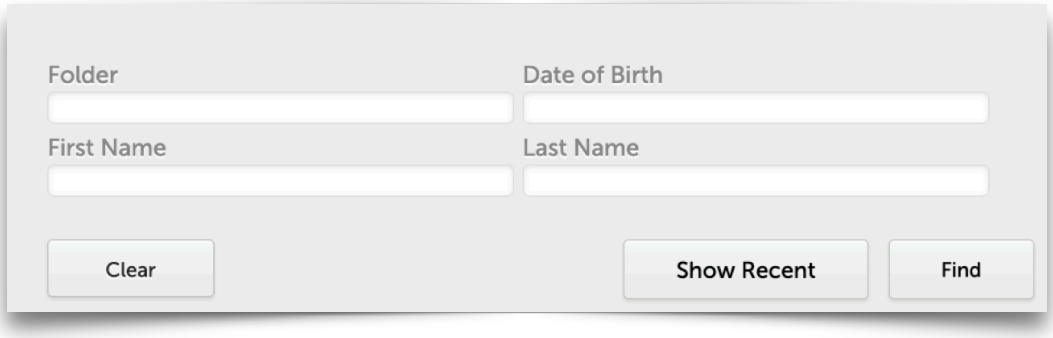
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Patients



Clicking the **Patients** link in the **Blue Header Bar** will open a list of patients which, by default, will show the patients scheduled for today.
You will see under the Name **Section** a date field which holds the date of the scheduled appointment. If your billing system is Bluebird enabled, it will have sent Bluebird the patients **booked** for today. The name of these booked patients will show in green and as each patient arrives in reception and they are marked (the checkbox to the right of the booked date) the colour will change to red. This colour coding allows the doctor to see which patients are scheduled for today and which have arrived. Clicking the today button on the top right of the Patients List will find all the patients with a booked date equal to the current date.

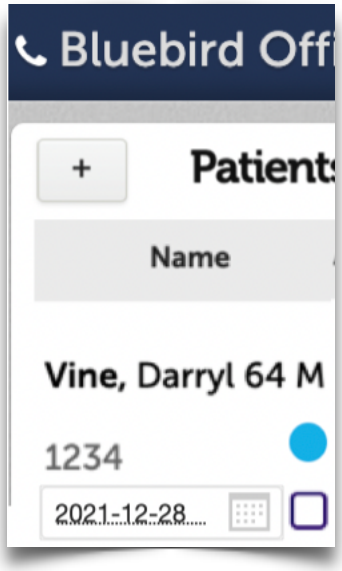
One may click the **Search Bar** at the top centre of the screen to open the **Search Box** to find specific patients. If a search is active, the bar becomes pink.



To the right of the search bar one finds two buttons:
Today: This will filter the patient line list to show patients that are scheduled for today
Orphans: This button with the aqua dot will find orphan “patients”. Orphans are created when an Inbox report cannot be matched to any patient in your patient database.

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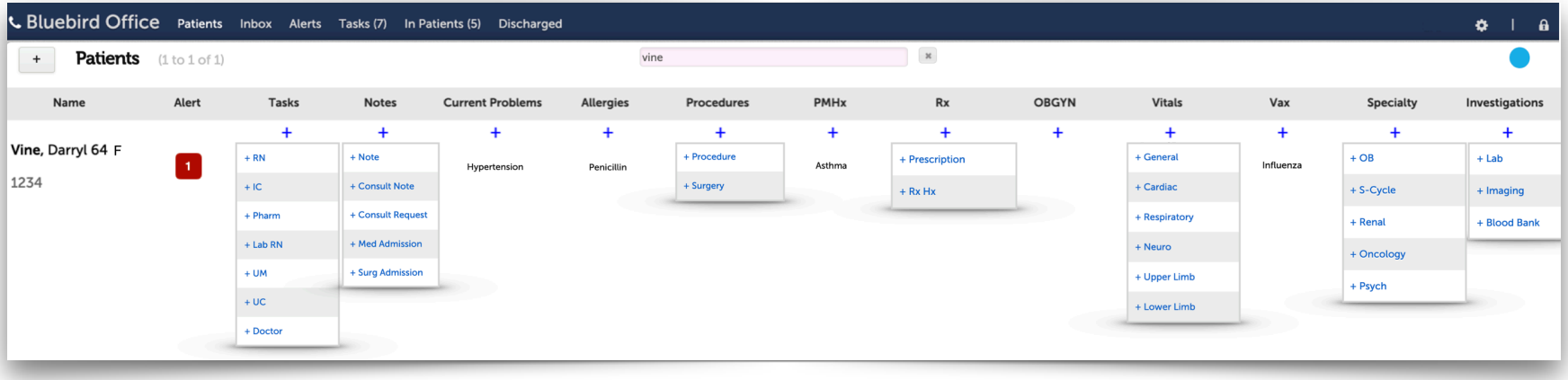
Typically orphans are created when a lab report's patient demographics do not match any patient in your database and Bluebird cannot safely match that incoming report to *any* practice patient.



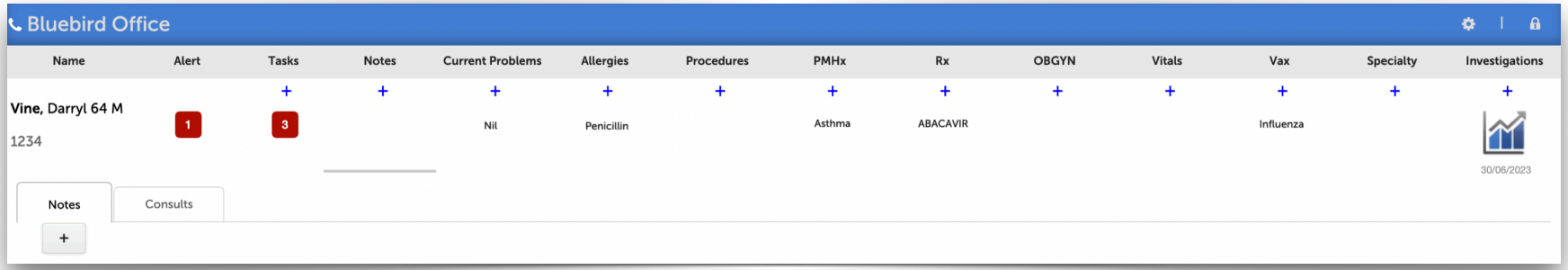
Orphan are indicated by an **aqua dot** in the Name Section. Click that dot to open the merge interface which allows one to merge that orphan with a known practice patient (and thereby get rid of the orphan).

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Each **Patient Line** has *section specific* blue **+ Icons** that open **Menus** which allow tasks (such as creating a new prescription or writing a new clinical note) to be performed quickly.
For illustration purposes all **+ Icon Menus** have been opened but in practice only one is opened at a time:



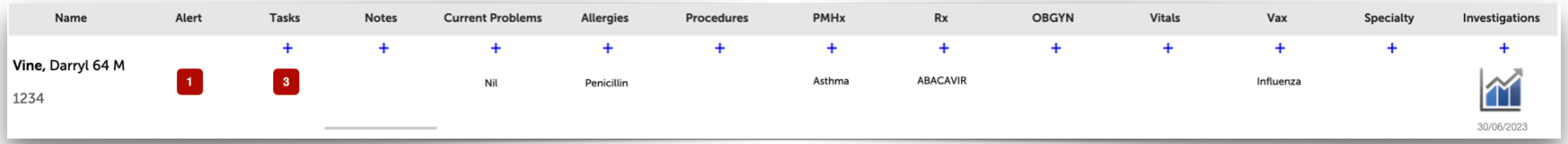
Items in the **+ Icon Menus** typically have corresponding **+ Buttons** under the relevant tab of each drill down section. In the example below the + button opens a new Follow Up (FU) Note:



The **+ Button** provides the common note choice for that Tab. Use the **+ Icon Menu** for a broader range of choices.

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Each **Patient Line** in the list has *Sections* holding different information:



One can quickly see core information including that this 64 year old female patient is allergic to penicillin and has a past medical history significant for asthma.
There is one open alert (which should be dealt with immediately) and there are three outstanding tasks.
Clicking any of these *Sections* will "open the drawer" (drill down) and display more detailed information about that section.
The grey bar under a section (Notes Section in the image above) show which drawer is open.

Note:
In order not to lose the found set of patients, a Drill Down is shown as a new (secondary) browser tab.
Secondary Browser Tabs have a light blue header to indicate that they should be closed once one is finished with that specific patient drill down.

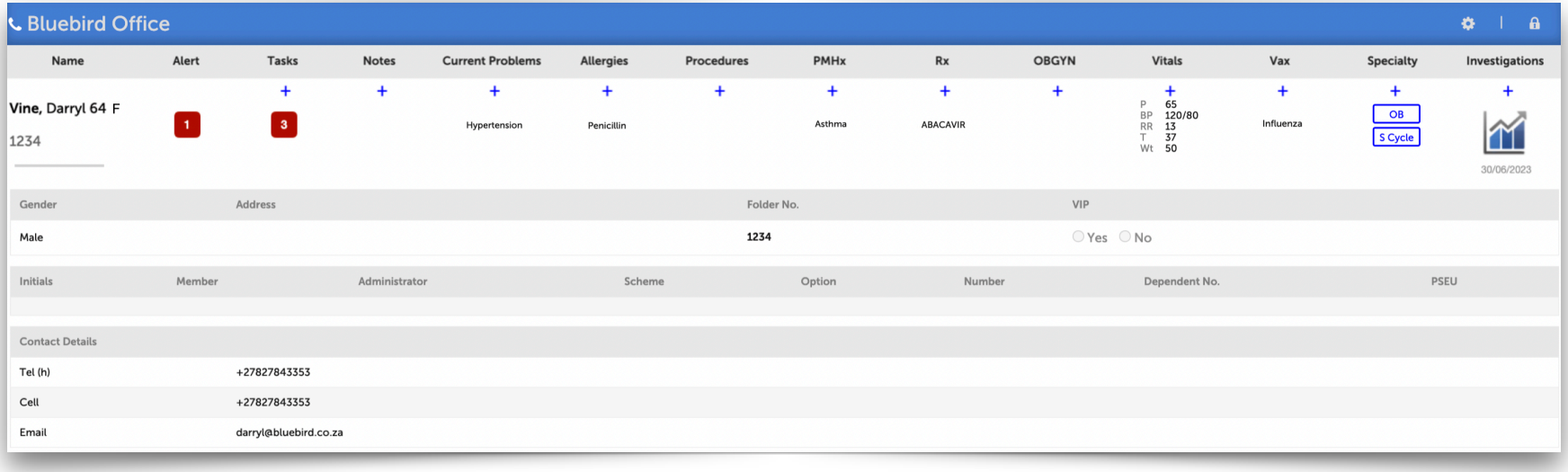


This document will now deal with each of these *Sections* and their **Drill Down** in sequence.

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Name Section

The Patient Name section holds the patient demographic data and includes the insurer (medical aid) information:

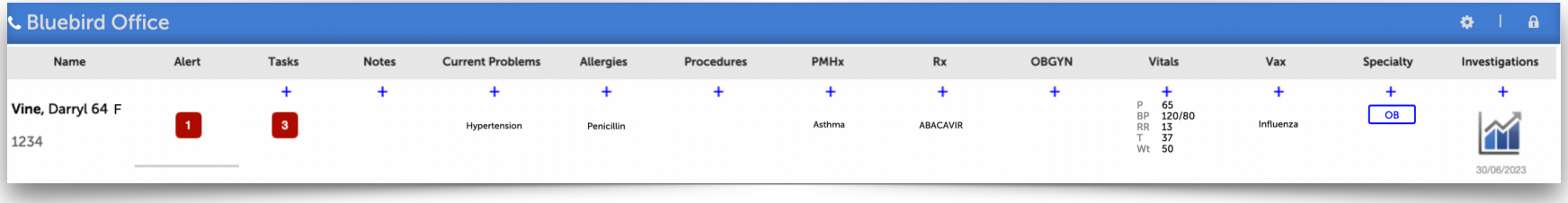


Communication with the patient via Bluebird's SMS and email functionally require that patient's cell number and email address so it is important to try and ensure they are kept current. Bluebird enabled Practice Management Applications update this data automatically whenever that it changes in the PMA.

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Alert Section

The practice is able to customize alerts they wish to see.



These might be alerts from Labs e.g. abnormal values or from Hospitals e.g. advice from the pharmacist regarding a specific drug prescribed.

If there are any open alerts for this patient a red icon (with the number of open alerts) will be shown in the **Alert Section** of the **Patient Line**.
Clicking that section will open a split screen with a line list of all the alerts on the left and a management pane on the right.
Open alerts are shown first.

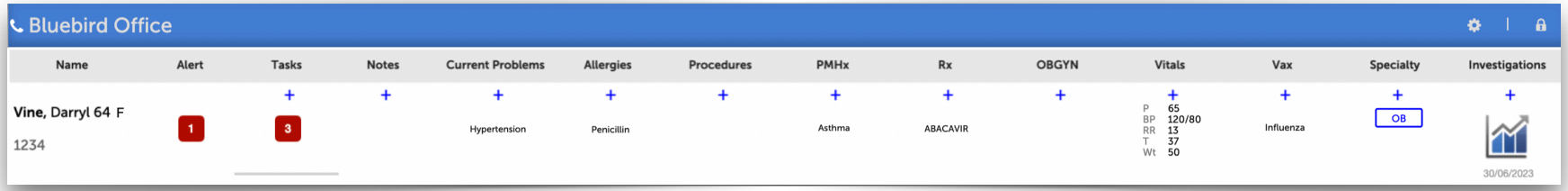
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Tasks Section

One is able (using the blue + Icon) to allocate tasks to a:

- Doctor
- Receptionist
- Practice Nurse

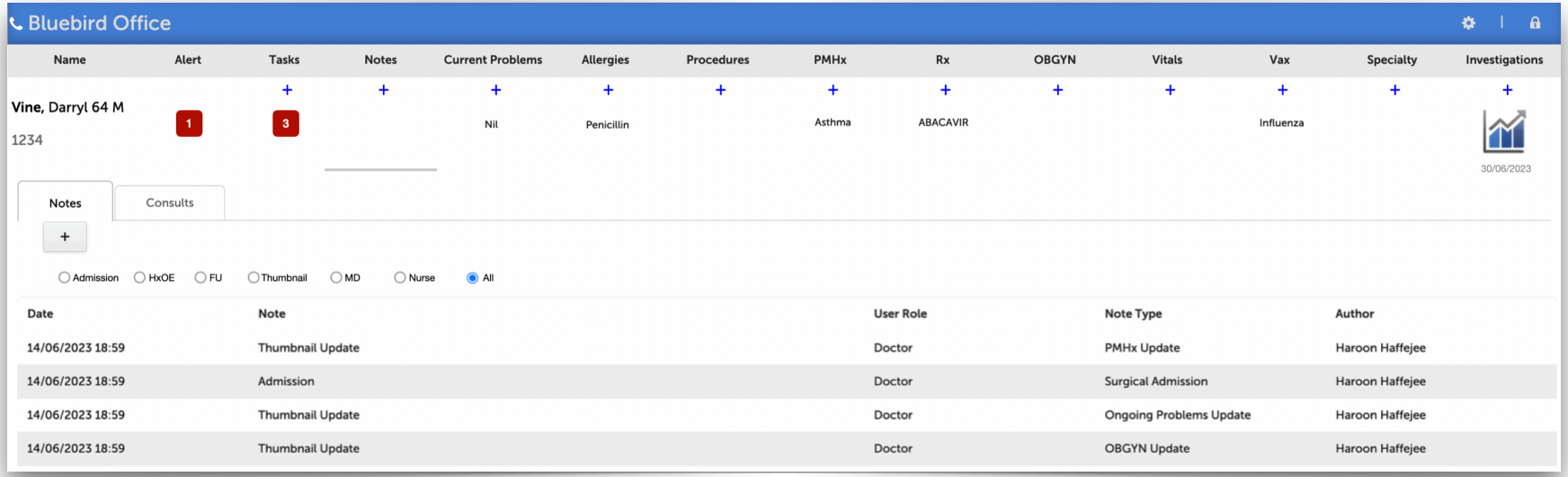
If there are any open tasks for the logged in User, a red icon (with the number of open tasks) will be shown in the **Task Section** of the **Patient Line**.
If there are open tasks for other Users and no open tasks for the logged in User, the icon will be grey.
Clicking that section will open a split screen with a line list of all the tasks on the left and a management pane on the right.
Open tasks for that User are shown first.



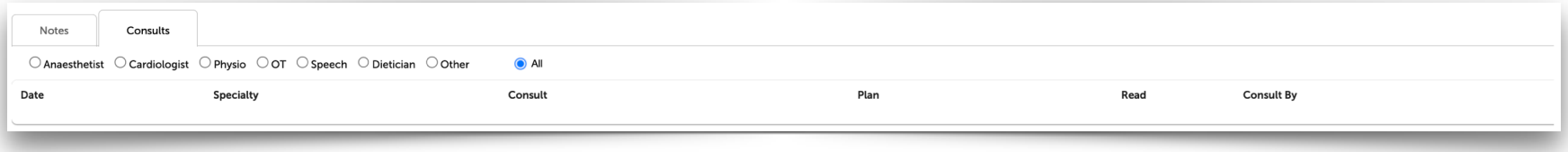
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Notes Section

Every note made regarding this patient is shown here as well as every incoming consult from external specialists. These consults are shown on a separate tab which has a red * in the tab if there are any consults.



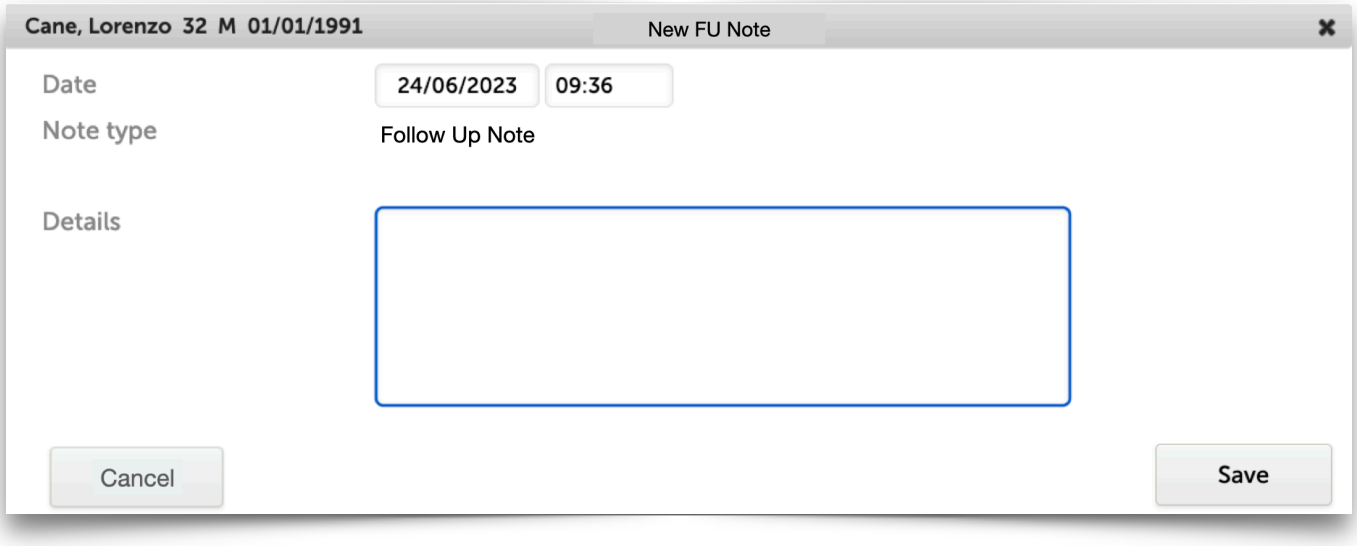
Clicking on any line item opens that (medico-legal) note in a non editable format.
One is able to filter notes by various categories including notes made by the practice nurse.
The Consults Tab houses all external consults that came into the Inbox. In the example below, note that there is not a red * in the consult Tab because no consults have been received for this patient:



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Follow Up (FU) Note

This template is typically used to quickly enter a brief progress note.



If *any* more detail is required use the full History & Examination (HxOE) template.

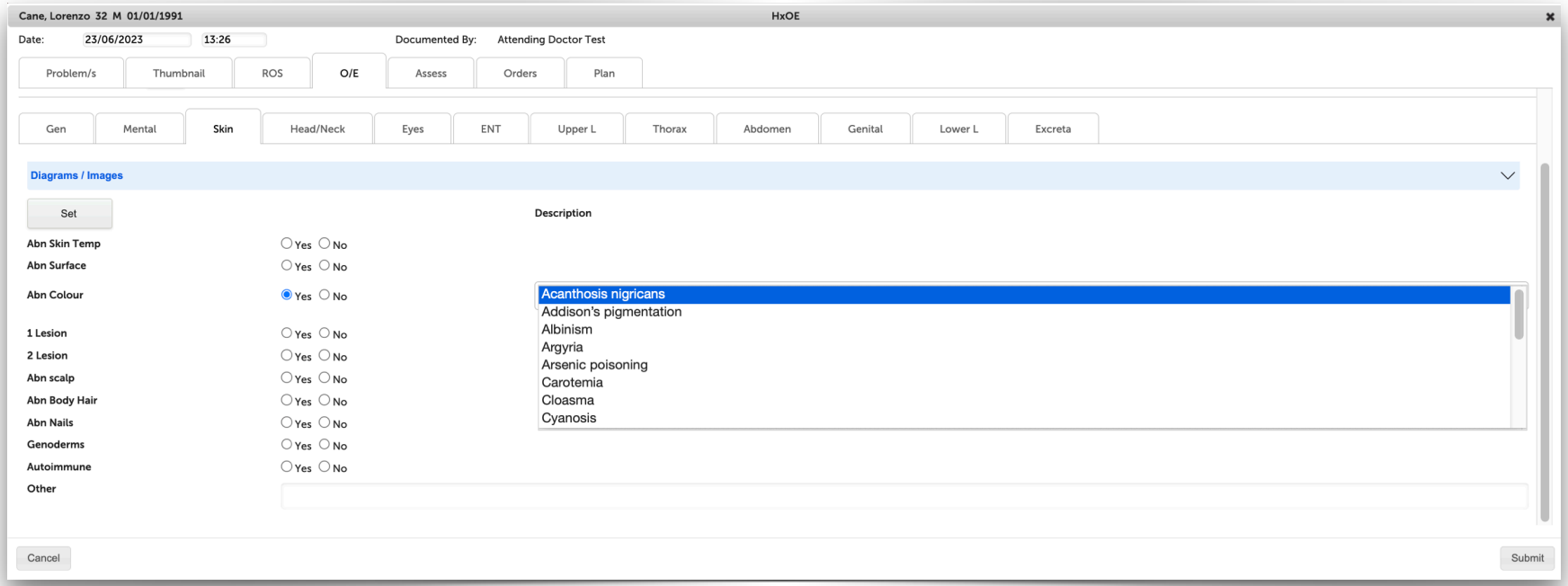
Note:
When using the HxOE template, only the Tabs and Fields in which one enters data are included in the note. This means that one has huge flexibility to enter either a very short note or a very complex complete clinical note. It also means that Bluebird can help calculate the appropriate billing code based on the complexity of your clinical note.

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HxOE

The **History & Physical** template is *extremely* flexible and offers sophisticated *options* including clinical decision support, specialty notes, drawing tools and imported images.

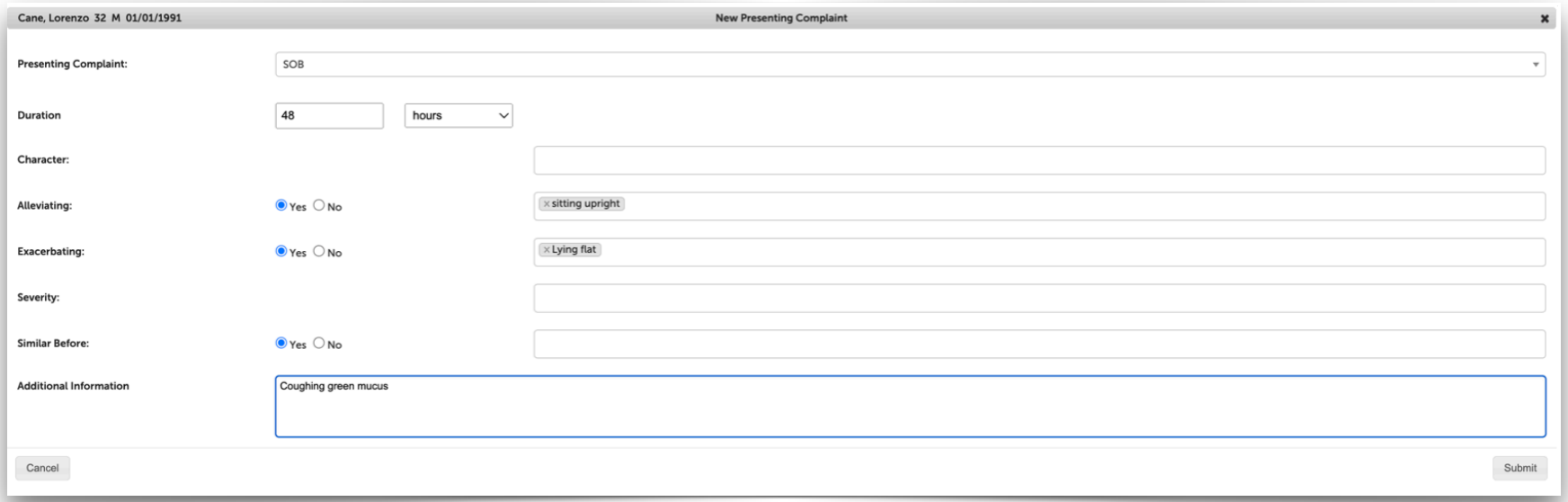
The **History & Physical** template has a row of **Primary Tabs**: Current Problem/s, Thumbnail (core history such as PMHx, allergies etc), Review of Symptoms, Physical examination, Assessment, Orders (including special investigations) and the Plan.
Primary Tabs have **Secondary Tabs** for example under the O/E Primary Tab one finds Secondary Tabs for the examination of each body part.



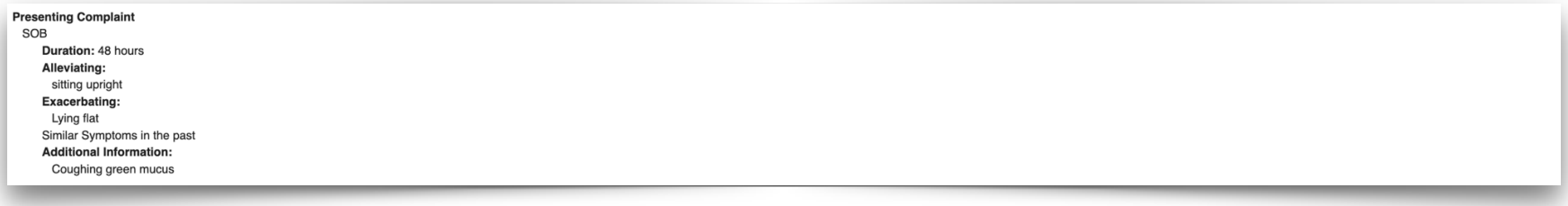
Yes/No Radio Buttons indicate that that parameter was assessed and if it was normal or abnormal. If normal, default text (which can be edited) is inserted in the text block but if *abnormal*, a *drop down* of appropriate choices is presented (one's own text may also be entered).
The **Set Button** insert normal values in any fields without data and is typically used as follows: Any abnormal values (in that Secondary Tab) are entered and the Set Button is then clicked to auto-fill the rest of the fields in that Secondary Tab *with normal values*.

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The real magic is that *only* portions that have *data* entered are *included* in the final (medico-legal) note.
e.g. the presenting complaint section has this data entered:



This is the portion of the final note that is produced for this section.



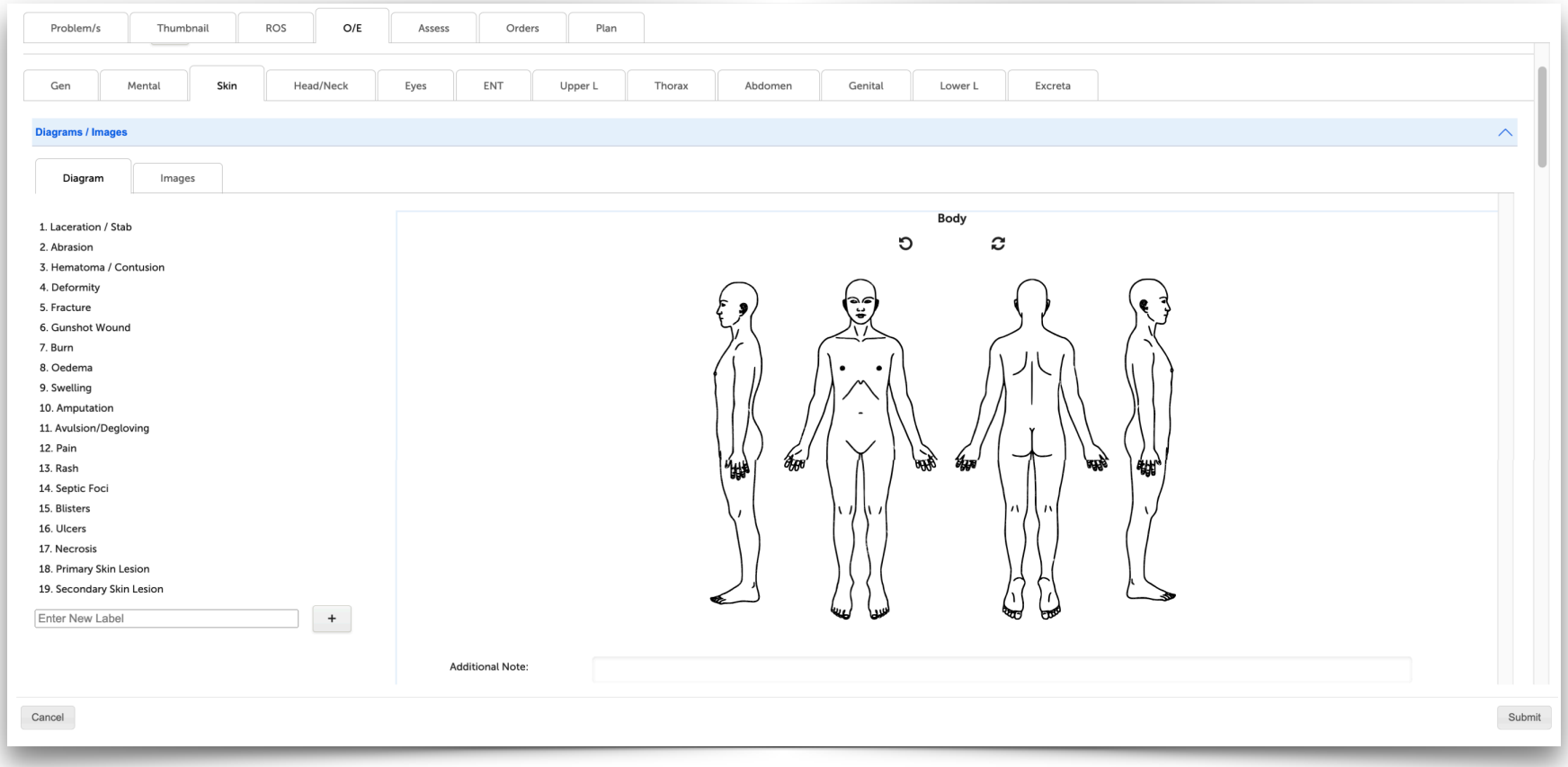
This means that this template can be used for a range of notes from very brief to very complex. Bluebird can use this to determine appropriate billing codes.

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Blue Accordions

Bluebird uses accordions to open and close (hide) sections.

For example, at the top of each examination **Secondary Tab** one finds a Diagrams/Images accordion. These accordions are closed by default. In the screenshot below the accordion is open and shows a skin diagram. Selecting a choice from the list on the right and then clicking on a appropriate section of the diagram will label that area with the number corresponding to the chosen lesion.



At the bottom of these choices is an ability to add custom labels.

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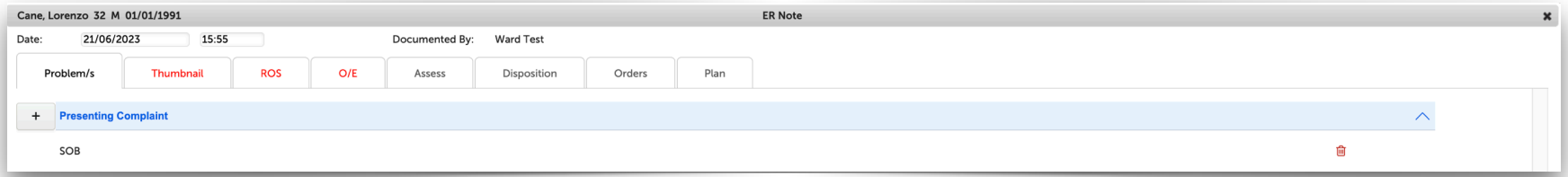
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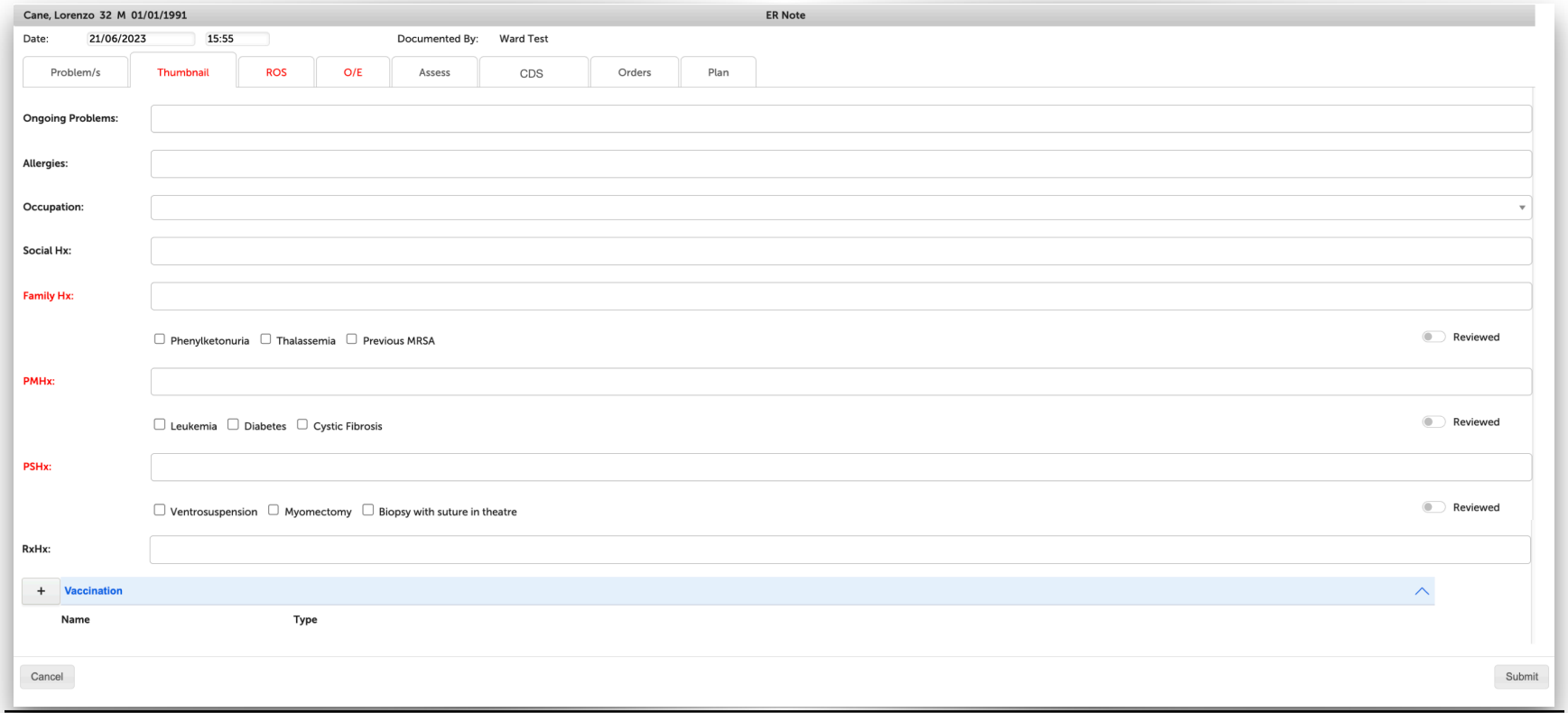
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Presenting Complaint Driven Hx & Exam

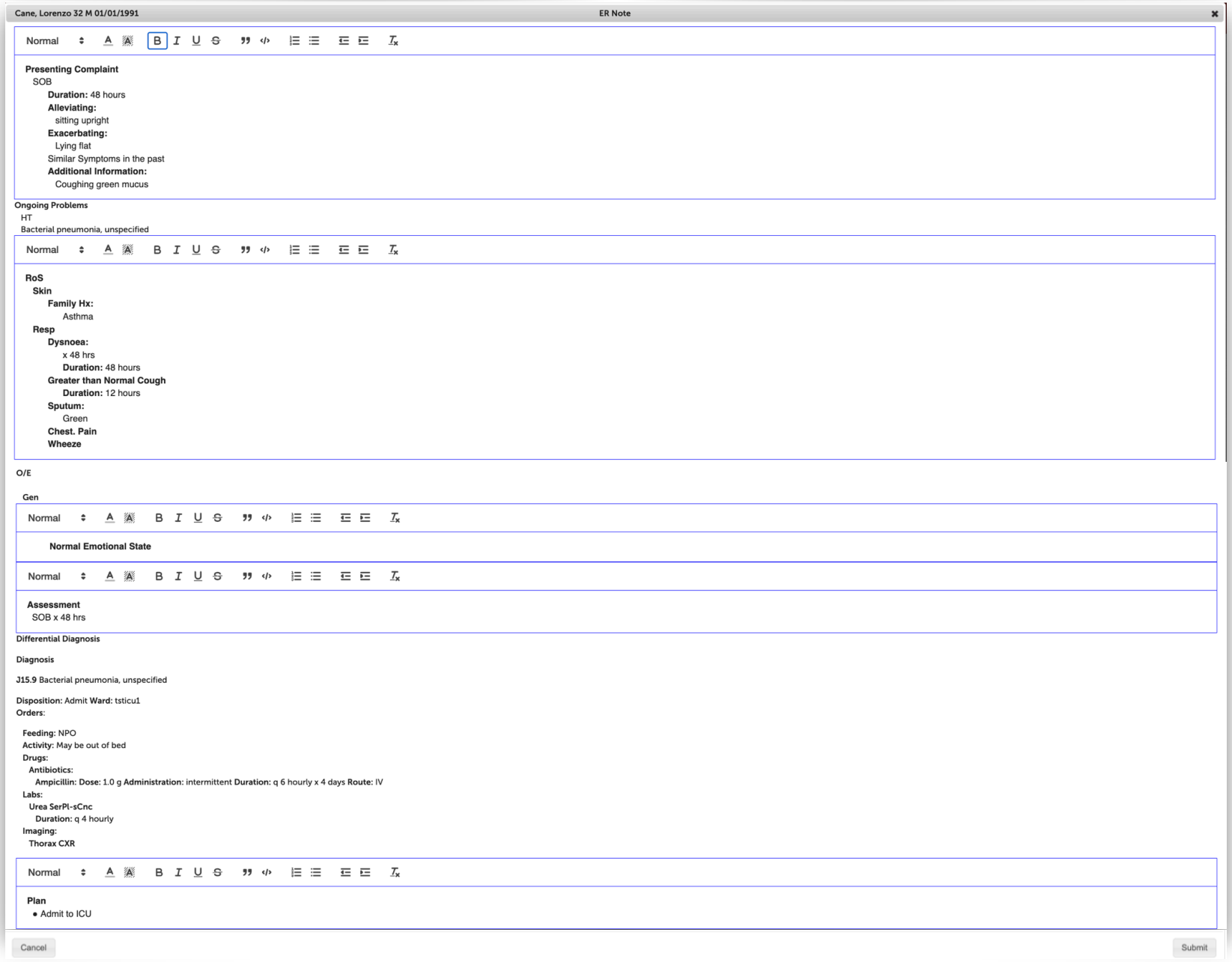
Bluebird can use the presenting complaint to indicate (using red text) portions of the history and physical that are important for that specific presenting complaint. For example dyspnoea in the patient below has been set up to remind the clinician to review the core history (thumbnail) as well as segments of the history (ROS) and examination.



Subsections of those Tabs are similarly marked in red. This functionality is customizable.



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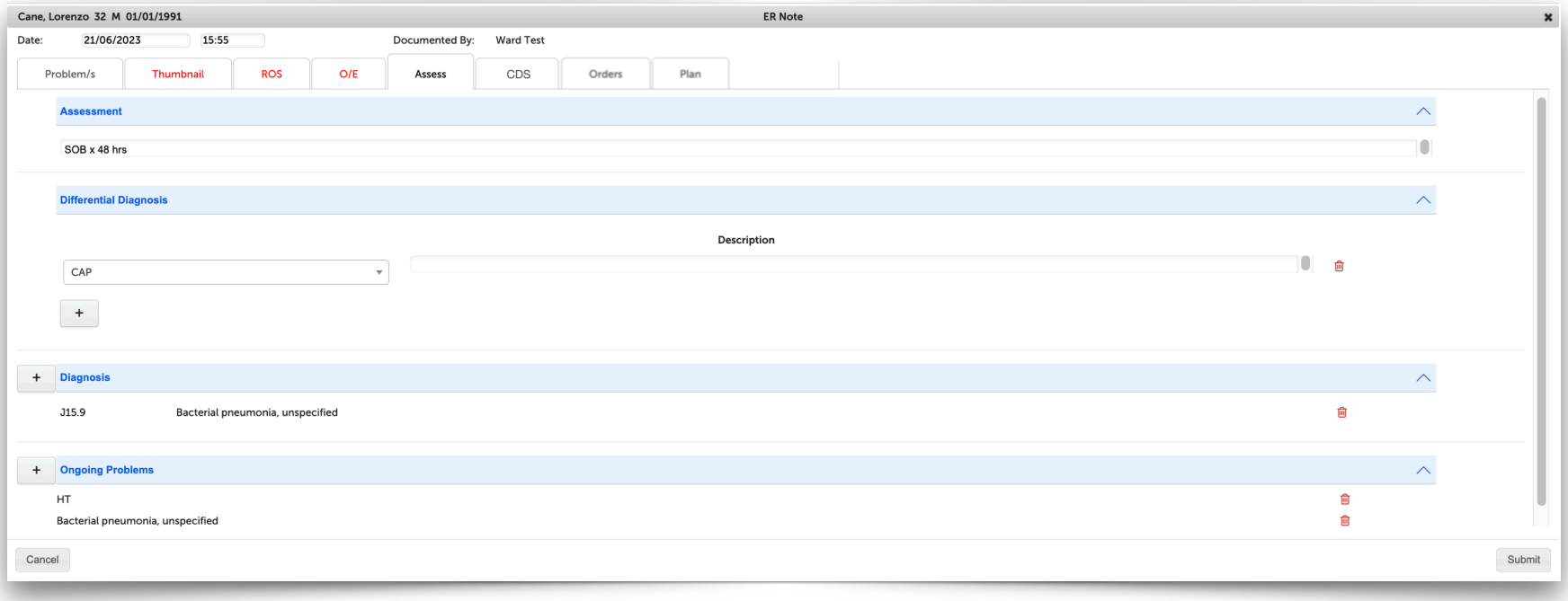


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Differential Dx Driven CDS, Orders and ICD10

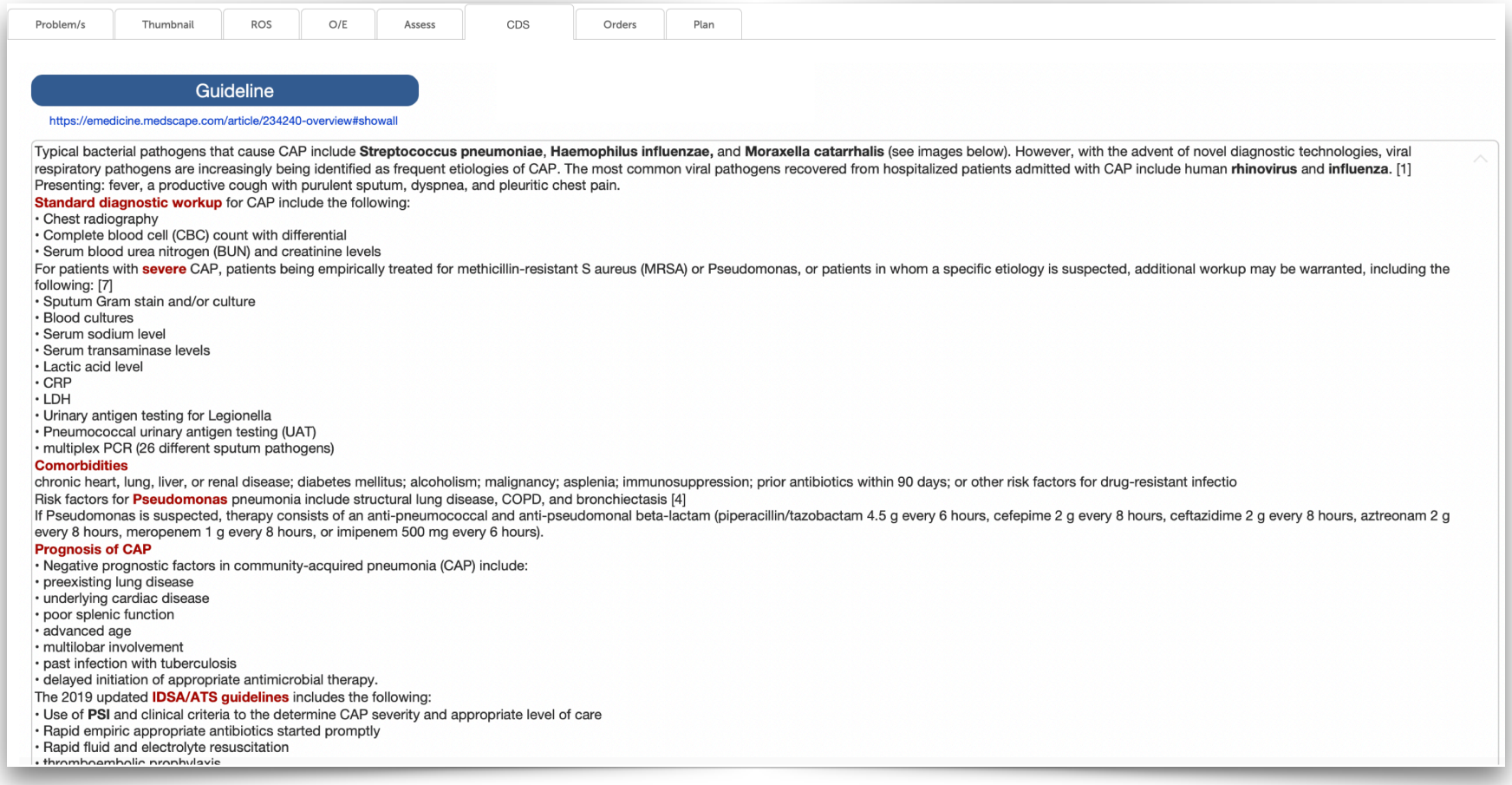
Optionally the Differential Diagnosis can drive clinical decision support and default orders.
Note that Differential Dx can have multiple values - only the first (the working diagnosis) drives CDS and Orders.



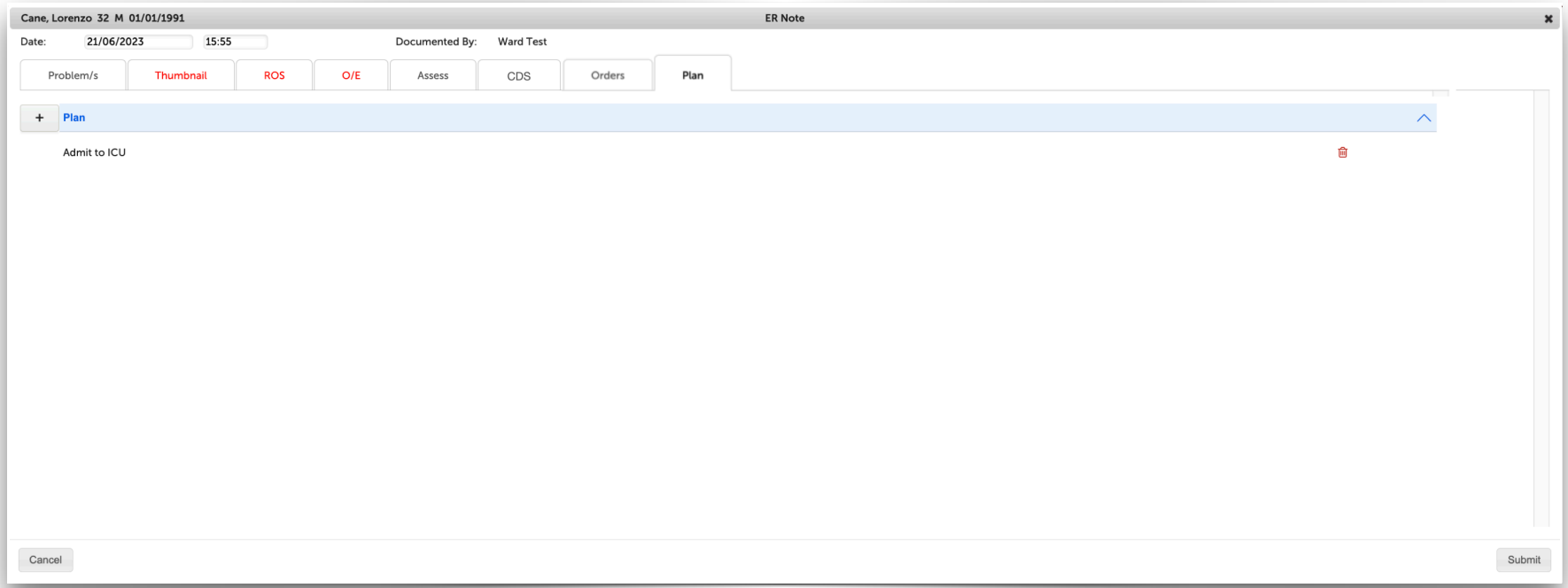
The Differential Diagnosis entered above is CAP (Community Acquired Pneumonia) and that drives the CDS on the next page as well as the orders on the page following that.

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Clinical Decision Support for CAP



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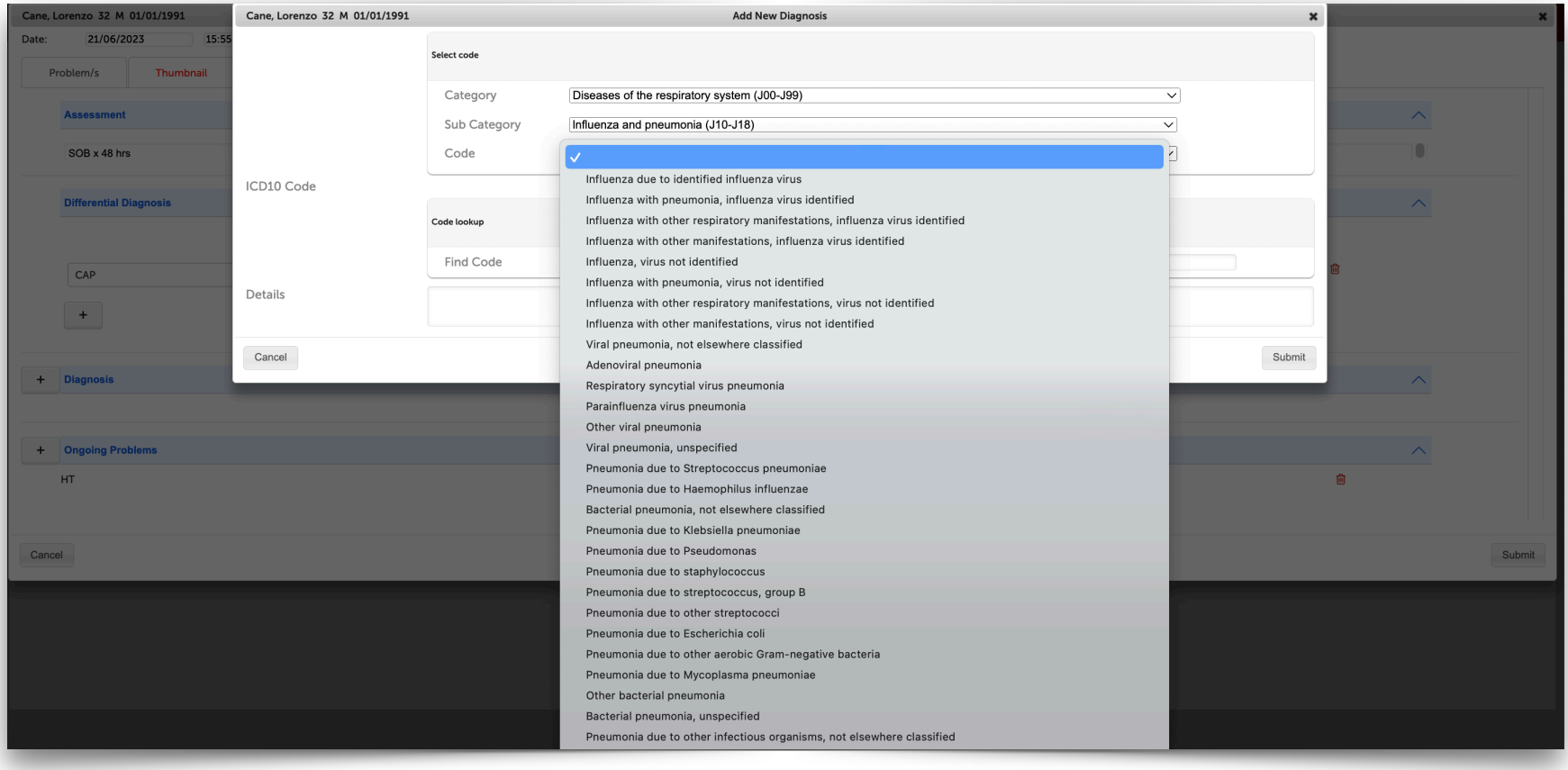


Default orders for CAP

Once the **Plan Tab** is completed click the Submit button to review (and edit if required) the clinical document (next page) before signing it off.
Once signed off it becomes a medico-legal document and cannot be altered.

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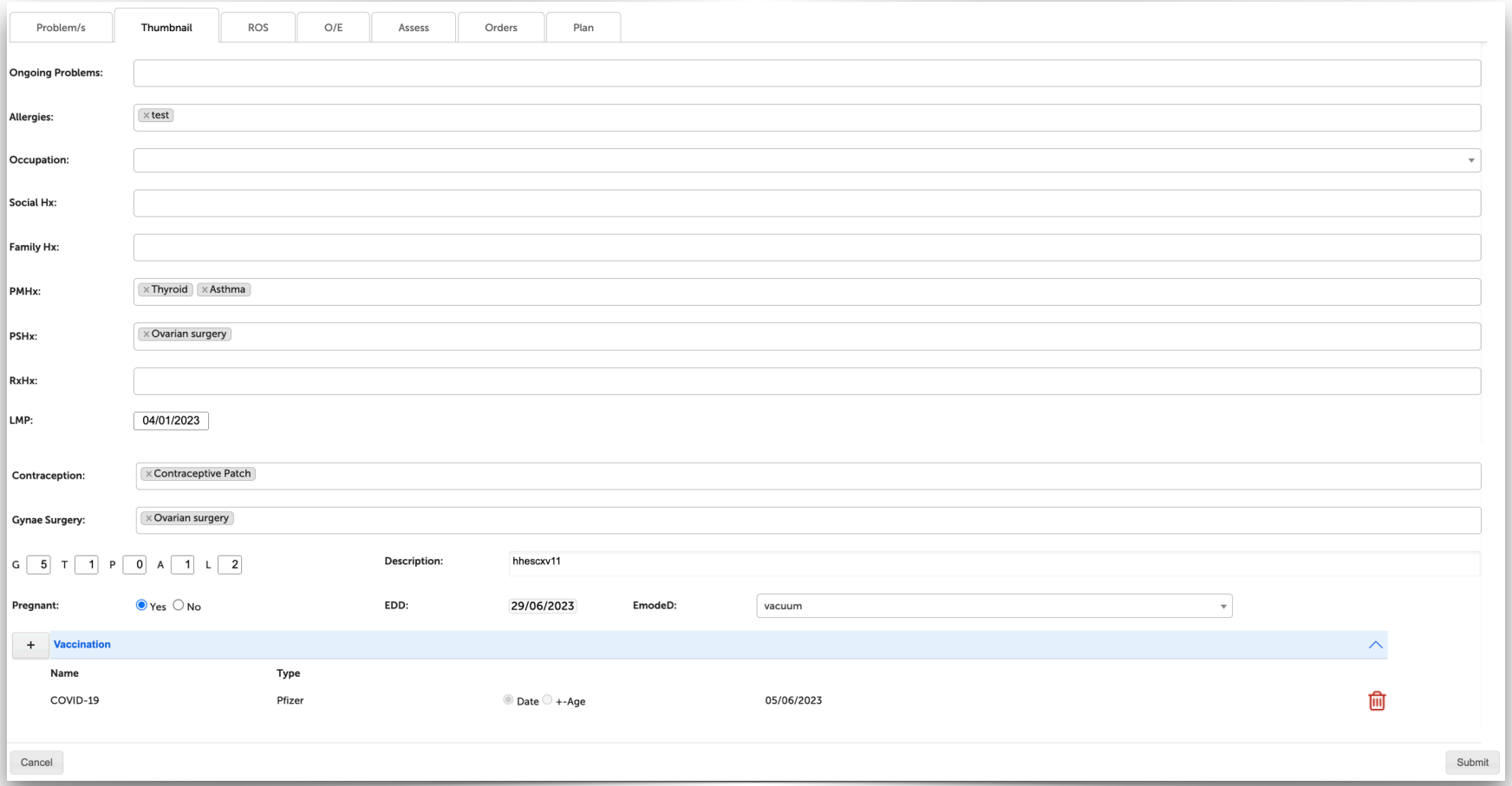
It is useful to have the diagnostic codes (ICD10) added to the clinical record as soon as possible. To facilitate this Bluebird provides a simple wizard that takes clinicians through two drop down lists that make coding easy.



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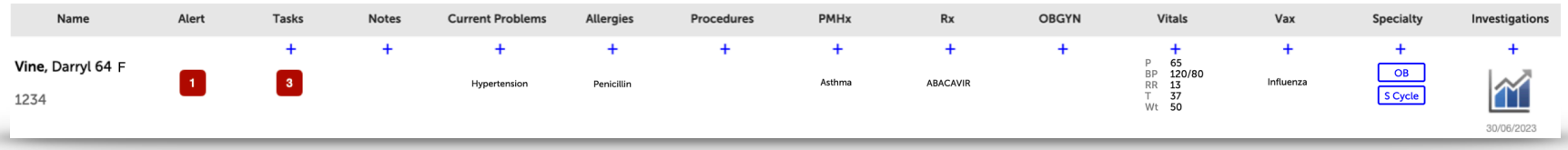
Thumbnail Sections

The next 7 sections on the **Patient Line** (Problems, Allergies, Procedures, PMHx, Rx, OBGYN and Vax) are all part of the core medical history or what we call the **Thumbnail**. It is the data that is saved as part of each patient's national Single Digital Health Record (**SDHR**). With the patient's consent this may be accessed by other medical practitioners or by emergency medical services (EMS). Typically this core information is initially documented on the **Thumbnail Tab** of the Hx and Physical template.

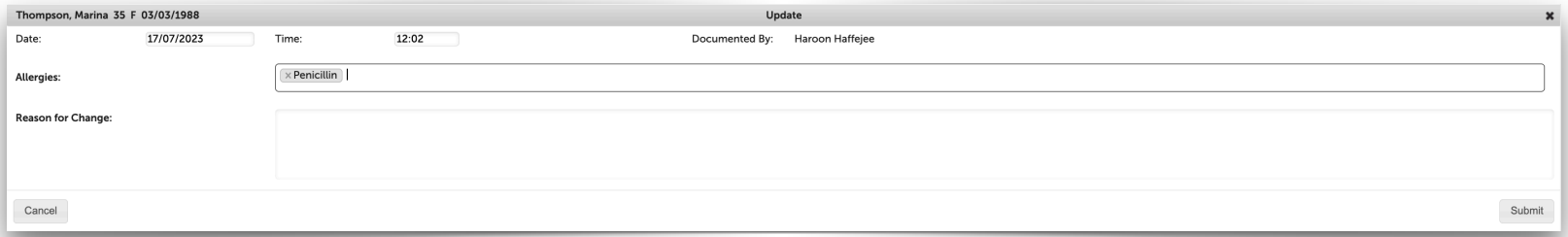


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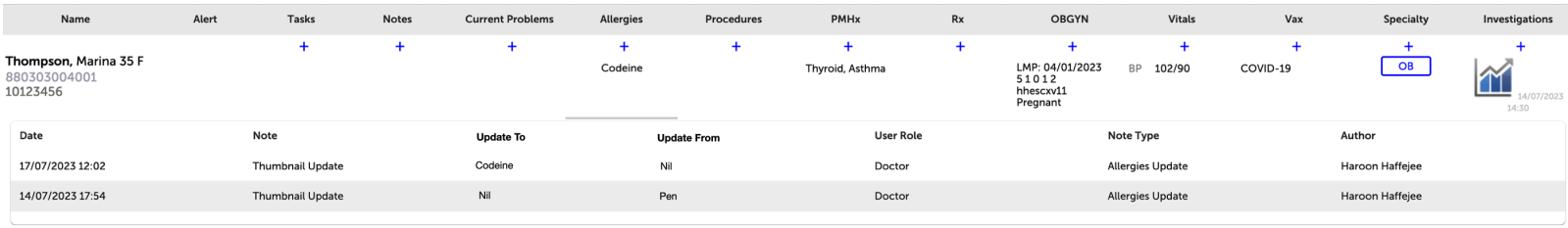
The **Patient Line** shows the current core information (without needing to click anywhere).



The blue + Icons provide a quick method to update any section - for example, Allergies:



Clicking the relevant section opens the Drill Down line items which document the timeline of changes.

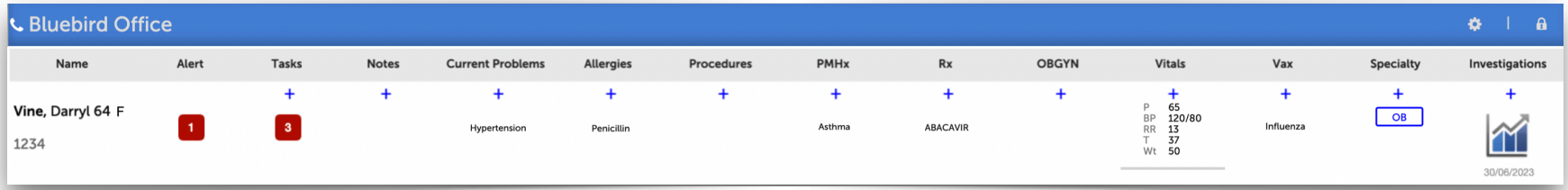


Clicking any line shows the reasons for that change in the Thumbnail.



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Vitals Section



The *most recent* P, BP, RR, T and 0_2 are shown in the Vitals Section of each patient line.

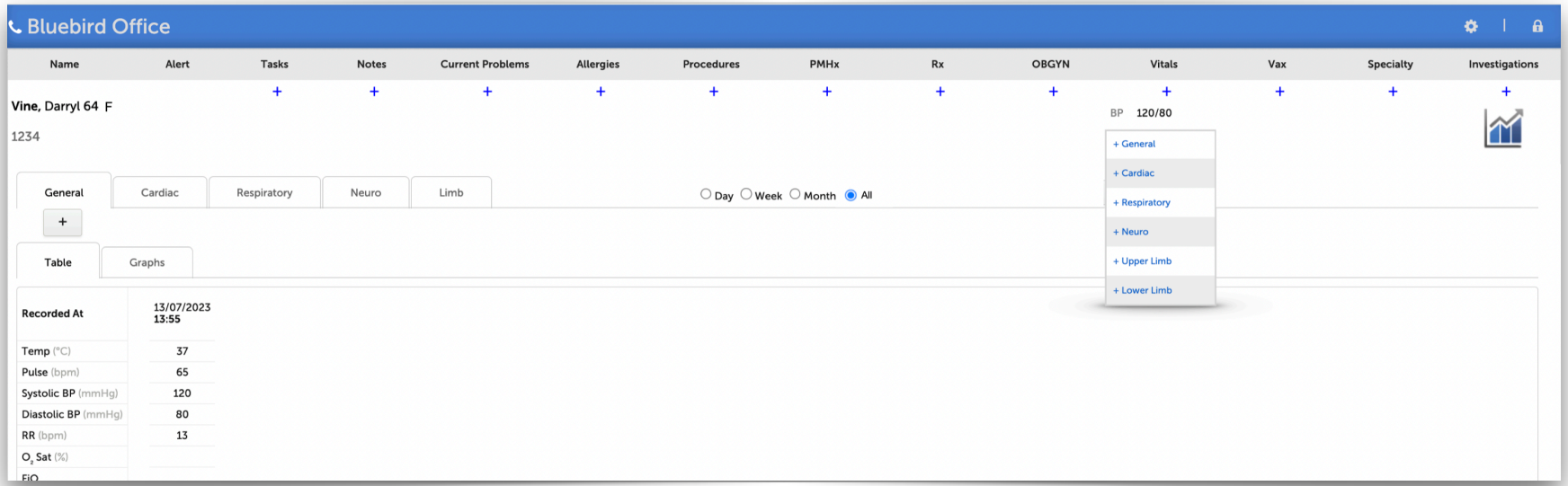
Although only the **General** Vitals are typically used in the office, for completeness all Observations (broken into the following groups) may be entered:

- General
- Cardiac
- Respiratory
- Neurological
- Upper Limb
- Lower Limb

(the latter two are important in the assessment of limb viability).

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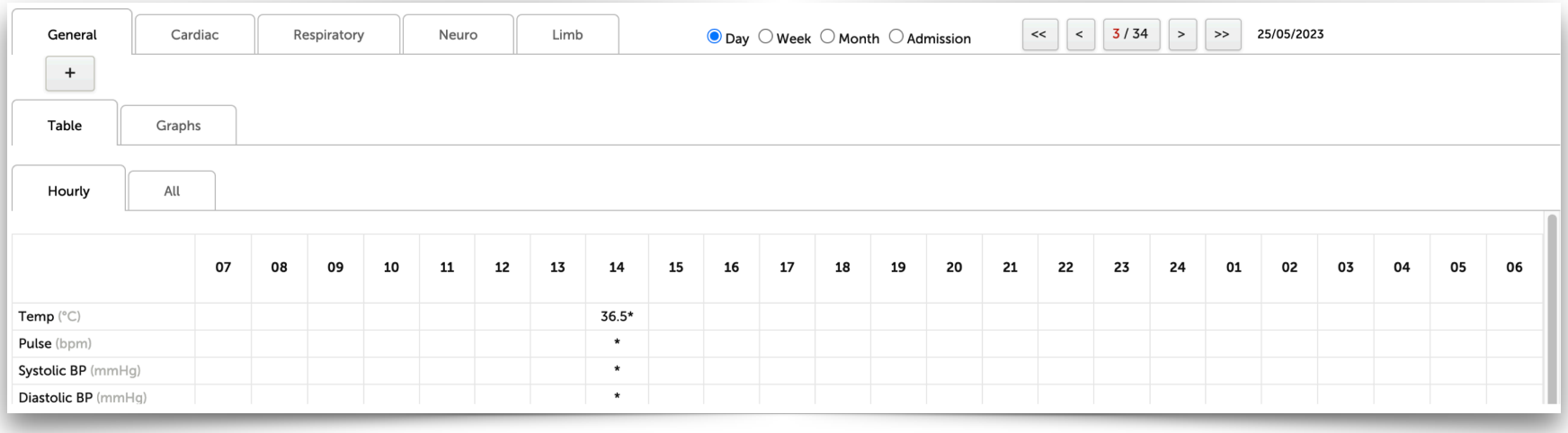
To document *new vitals* one may use either the blue **+Icon** (which pops open the menu seen below) or the **+Button** under each **Vitals Tab** on the **Vitals Drill-Down.**
Each Vitals group has it's own Tab and it's own + Button.



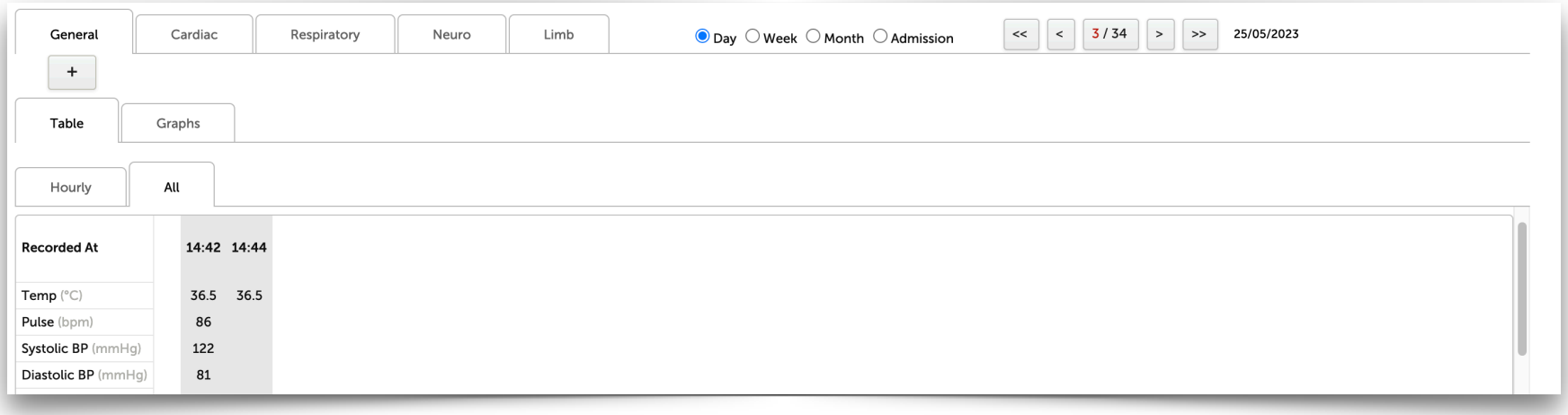
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Vitals Tabs

Each Vitals Group has it's own **Tab** and it's own **+ Button**. Vitals can be viewed by day, week, month or All with All being the default. If one uses the daily sheet, **VCR Buttons** appear which allow one to navigate through the daily sheets. Click the middle VCR button (which shows the day being viewed and the total days in the found set) to navigate to the current day.



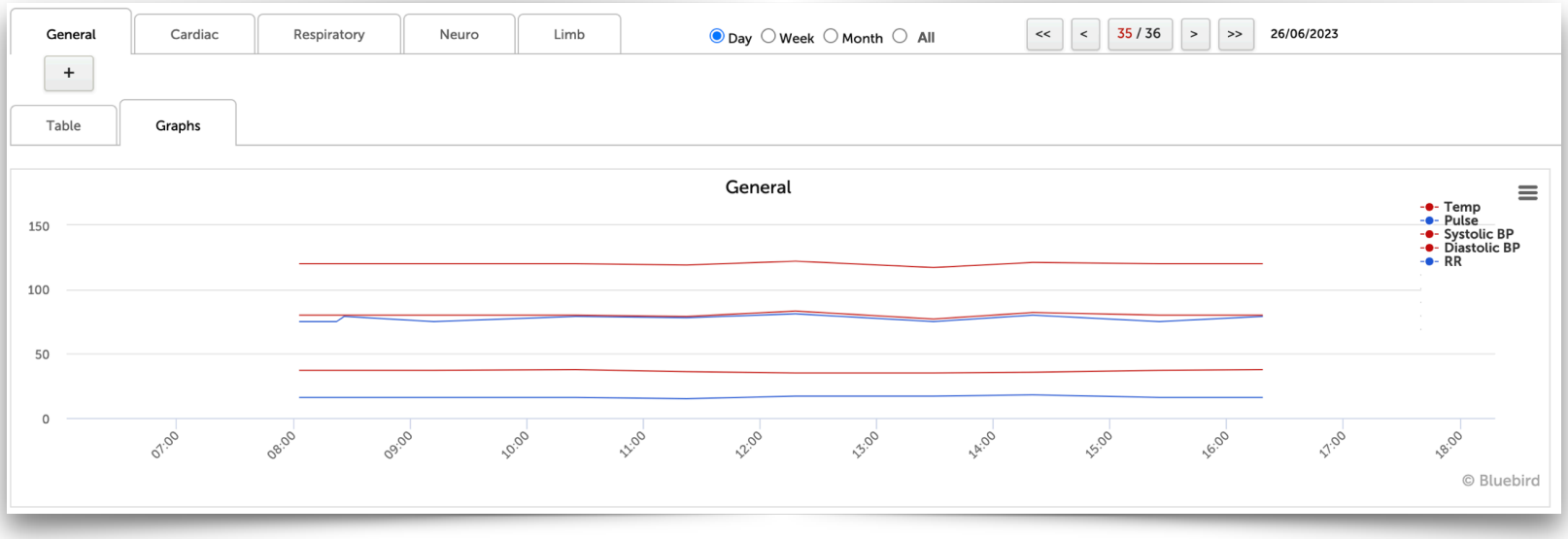
When one sees an * in the hourly cell, it means more than one vitals has been recorded in that hour. Click it to move to the All tab:



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Graphs

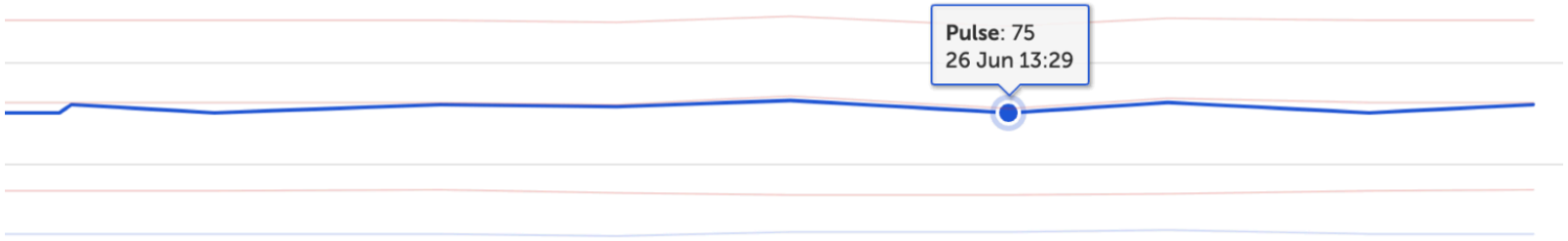
All information may also be viewed graphically.



In this case it has been elected to view vitals by day (which would be unusual in most practices) but this example was chosen to demonstrate the VCR buttons that appear when daily graphs are chosen. The VCR buttons enable navigation between days in the found set.

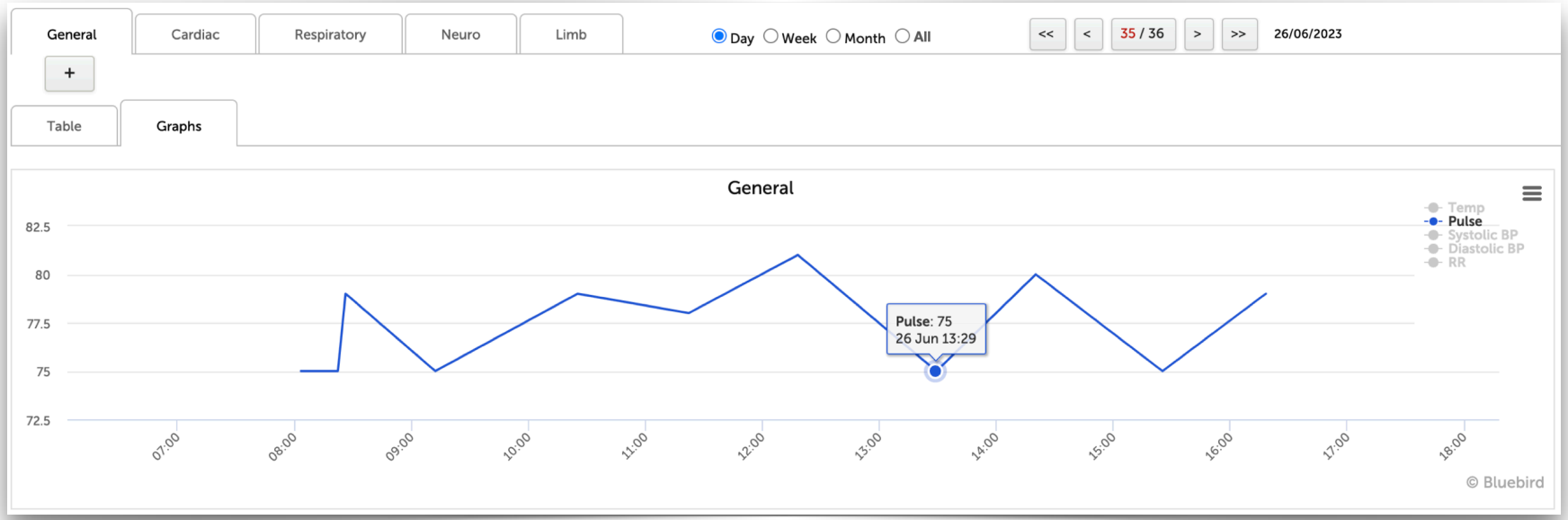
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One may mouse over any portion of the graph to see an individual Data Point.



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If one selects only one vital - in the example below only the pulse rate has been selected - the **Y axis** will adjust to show *only* the **range** for that specific vital and, as in the case below, this will show variation that might have not been obvious if all parameters were charted.



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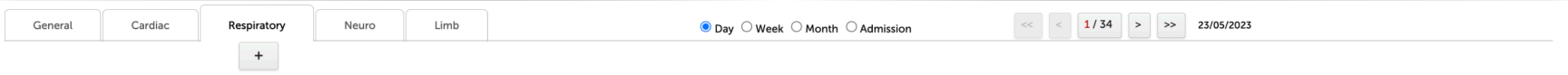
Data Download

As with all Bluebird charts, tables may be downloaded to excel and graphs downloaded in multiple image formats:

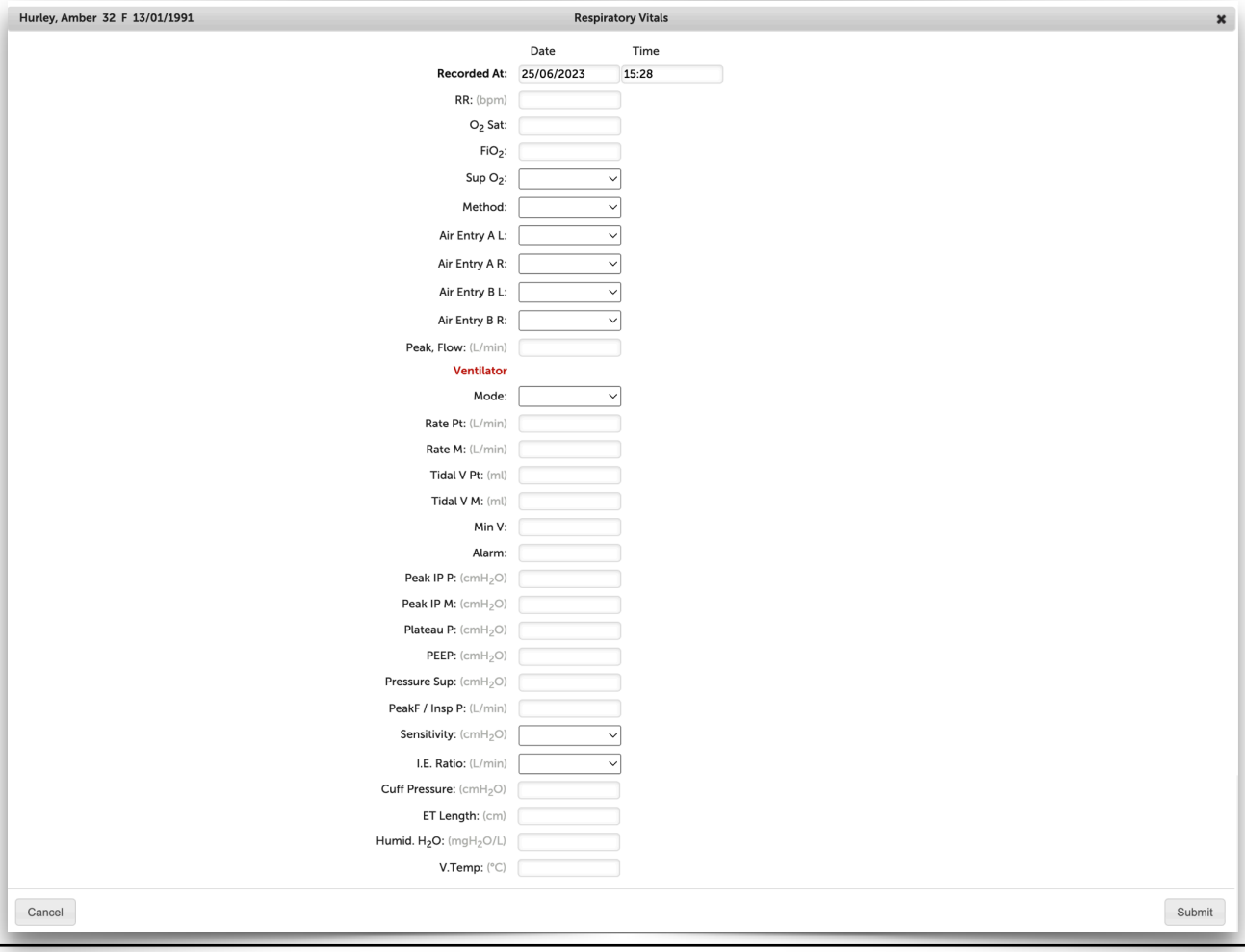


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+ Buttons



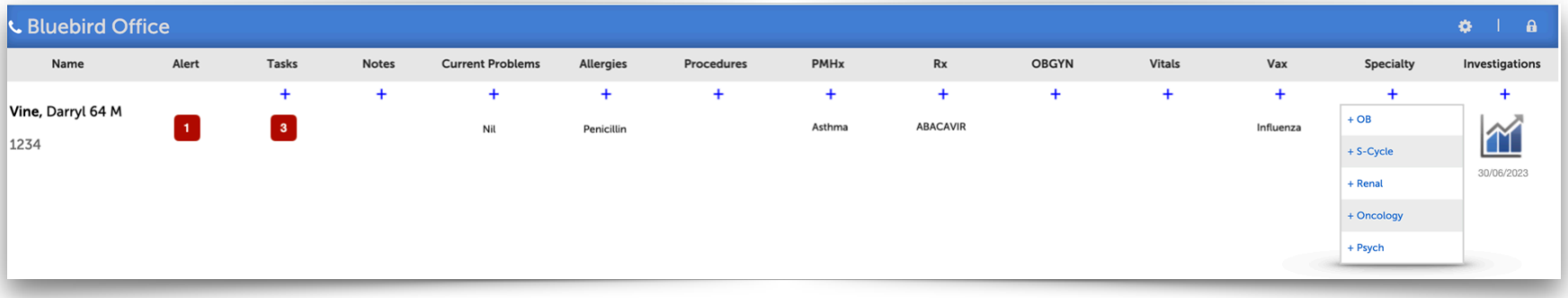
The **+Button** opens the corresponding **Data Entry Form** e.g. clicking the **Respiratory Tab** +Button opens this data entry form:



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Specialty Section

Use the + Icon in the **Specialty Section** to create a new specialty form such as an **antenatal** sheet or a stimulation sheet for **infertility**.



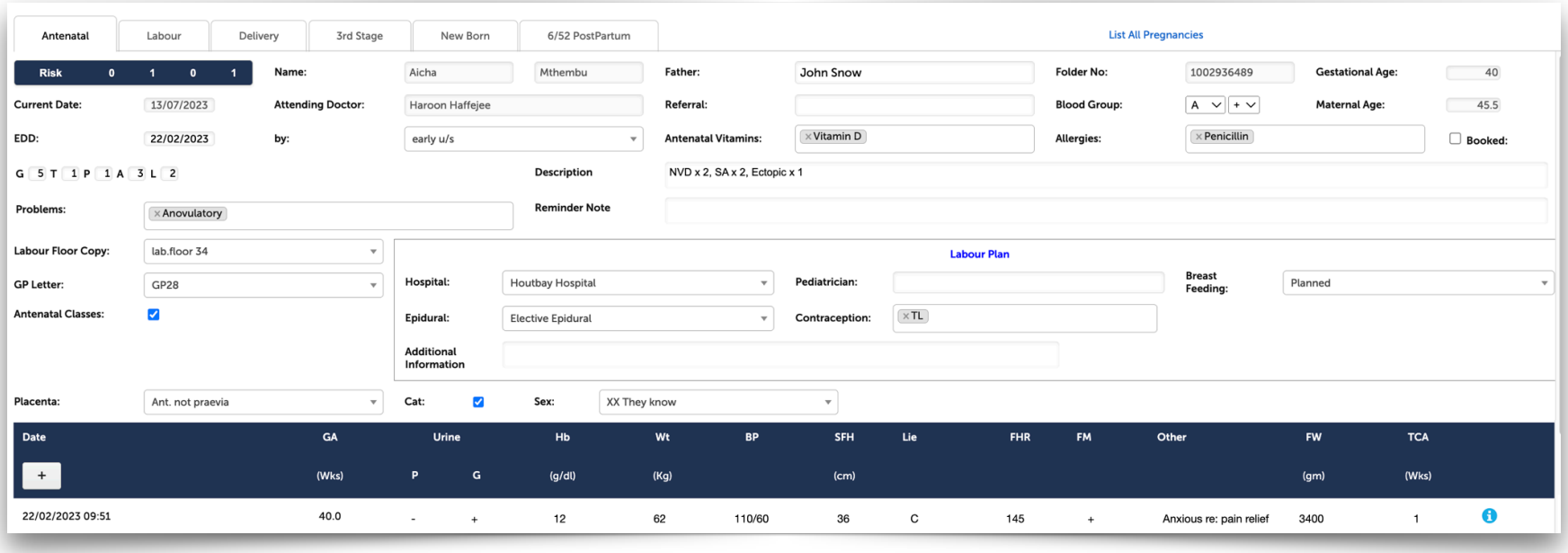
If there is an active sheet (in the example above an antenatal sheet), a blue icon will be shown in the Specialty Section. Clicking that icon will open the specialty sheet. Once a sheet has been made but is no longer active (in the example above the baby might have been delivered) the icon will become grey.



The next 2 pages show examples of an antenatal sheet and an infertility stimulation sheet.

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Antenatal Sheet



Notes:

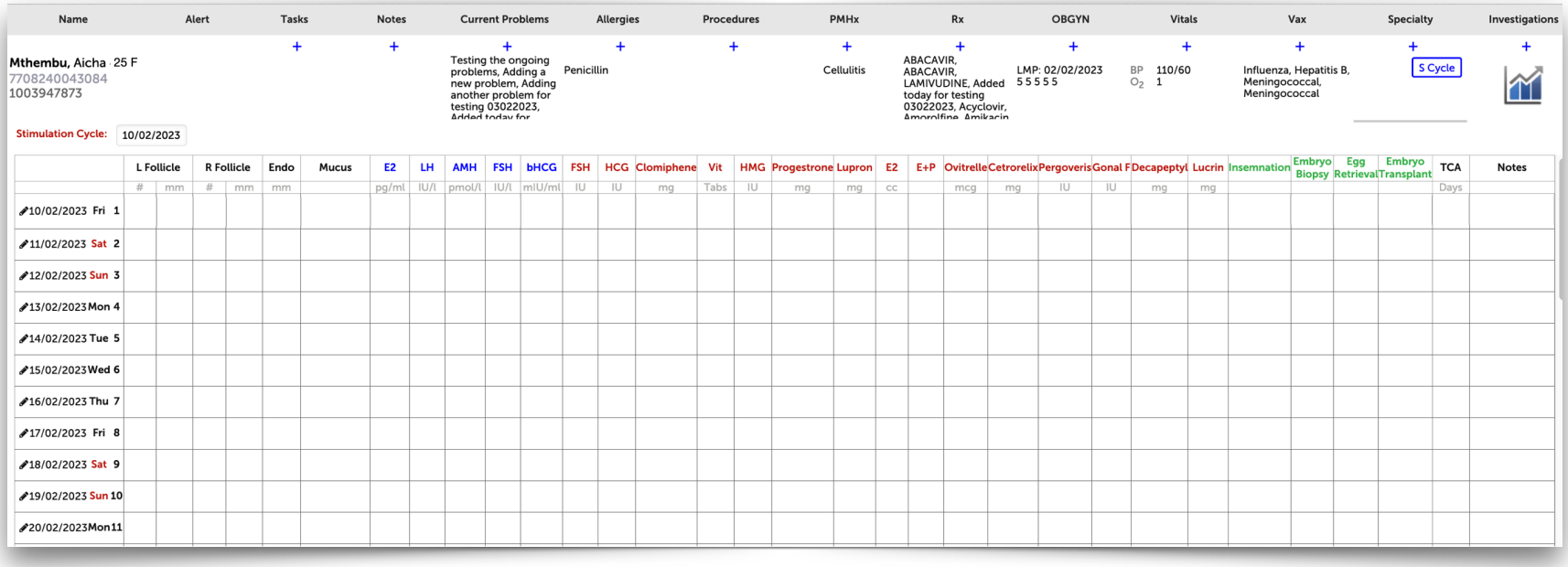
- Bluebird provides a tool to measure risk profiles (Pre-pregnancy, PastOB, Current Pregnancy and Total Risk) which helps plan the most appropriate location for delivery
- In the example above, only the last antenatal visit is shown

More detail regarding the Complete OB Module, including in-hospital and newborn care can be found here: intelms.com/954

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Infertility Stimulation Sheet

This specialty module facilitates the documentation of the daily parameters that may need to be recorded during a stimulation cycle:



Name	Alert	Tasks	Notes	Current Problems	Allergies	Procedures	PMHx	Rx	OBGYN	Vitals	Vax	Specialty	Investigations
		+	+	+	+	+	+	+	+	+	+	+	+
Mthembu, Aicha · 25 F 7708240043084 1003947873				Testing the ongoing problems, Adding a new problem, Adding another problem for testing 03022023, Added today for	Penicillin		Cellulitis	ABACAVIR, ABACAVIR, LAMIVUDINE, Added today for testing 03022023, Acyclovir,	LMP: 02/02/2023 5 5 5 5 5	BP 110/60 O_2 1	Influenza, Hepatitis B, Meningococcal, Meningococcal	S Cycle	

Stimulation Cycle: 10/02/2023

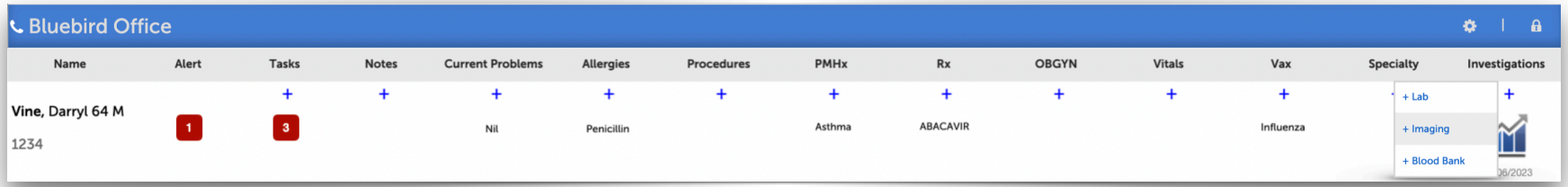
	L Follicle		R Follicle		Endo	Mucus	E2	LH	AMH	FSH	bHCG	FSH	HCG	Clomiphene	Vit	HMG	Progestrone	Lupron	E2	E+P	Ovitrelle	Cetrorelix	Pergoveris	Gonal F	Decapeptyl	Lucrin	Insemnation	Embryo Biopsy	Egg Retrieval	Embryo Transplant	TCA	Notes
	#	mm	#	mm	mm		pg/ml	IU/l	pmol/l	IU/l	mIU/ml	IU	IU	mg	Tabs	IU	mg	mg	cc		mcg	mg	IU	IU	mg	mg					Days	
10/02/2023 Fri 1																																
11/02/2023 Sat 2																																
12/02/2023 Sun 3																																
13/02/2023 Mon 4																																
14/02/2023 Tue 5																																
15/02/2023 Wed 6																																
16/02/2023 Thu 7																																
17/02/2023 Fri 8																																
18/02/2023 Sat 9																																
19/02/2023 Sun 10																																
20/02/2023 Mon 11																																

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Investigations Section

The blue + Icon under the **Investigations Header** allows one to create requisitions which may either be printed or, if your service provider is Bluebird enabled, may be sent electronically to the lab, radiologist or to the blood bank.

A big advantage to both the practice as well as the service provider in using the electronic requisitions is that it obviates the need to recapture data from a paper sheet along with all the data capture errors that inevitably occur.

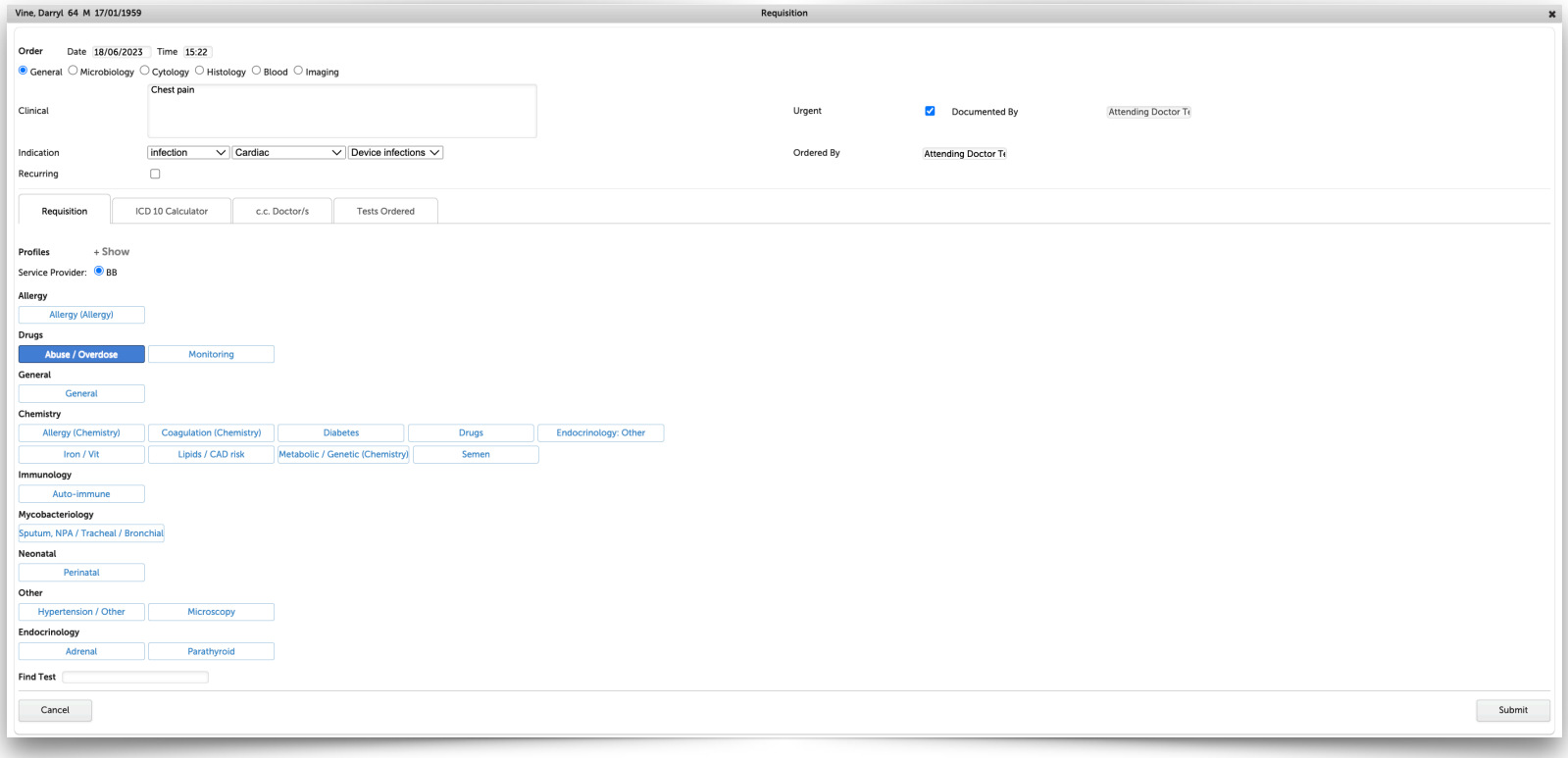


Examples of each of these electronic requisition forms are shown on the next 3 pages.

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Lab Requisition

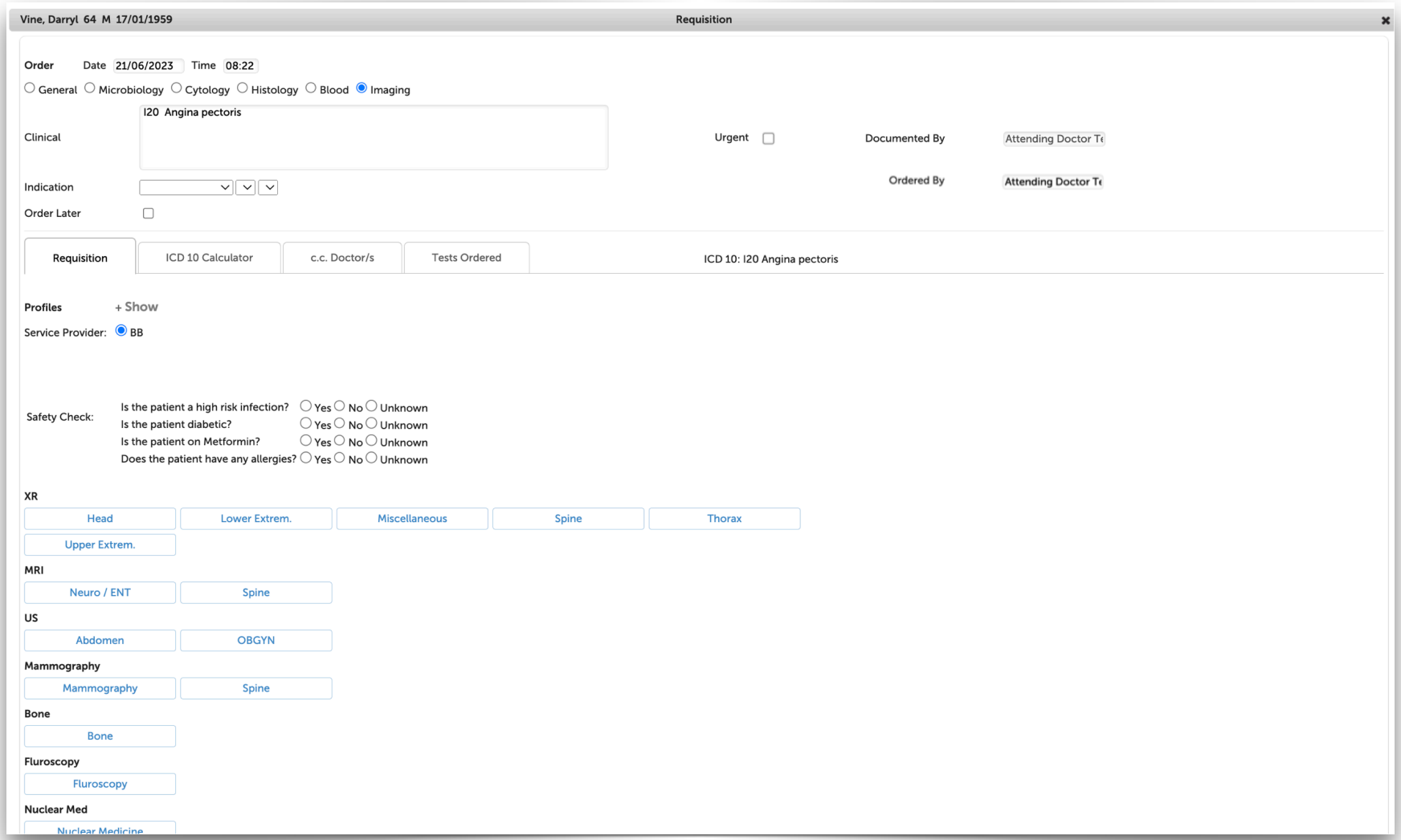
Use the blue **+ Icon** to open a new **Lab Order Form:**



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Imaging Requisition

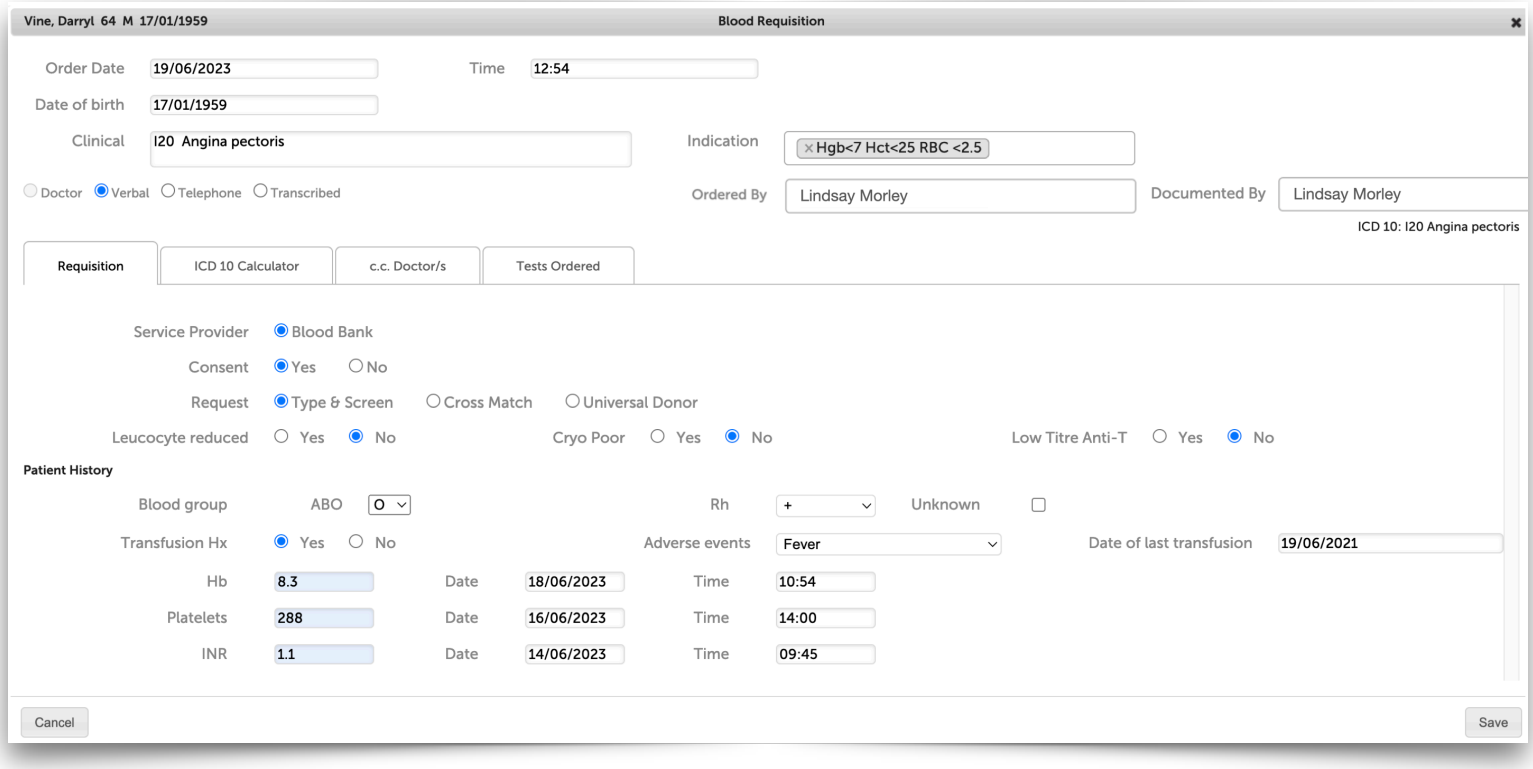
Use the blue **+ Icon** to open a new **Imaging Order Form:**



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Blood Bank Requisition

Use the blue **+ Icon** to open a new **Blood Requisition Form** to be sent to the blood bank**:**



All doctor's orders requesting the blood bank to group and screen or to create blood products for this patient are listed under the **Requisitions Tab** under the Investigations Drill Down.

Click any line item to review the original Blood Bank Requisition (in a read only format).

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Results

Clicking the **Blue Lab Icon** (far right) on the Patient Line brings up the **SI** (Special Investigation) **Tabs** with the cumulative table selected by default.
All labs for this patient are shown. A line list of all SI results is shown under the "All" tab.

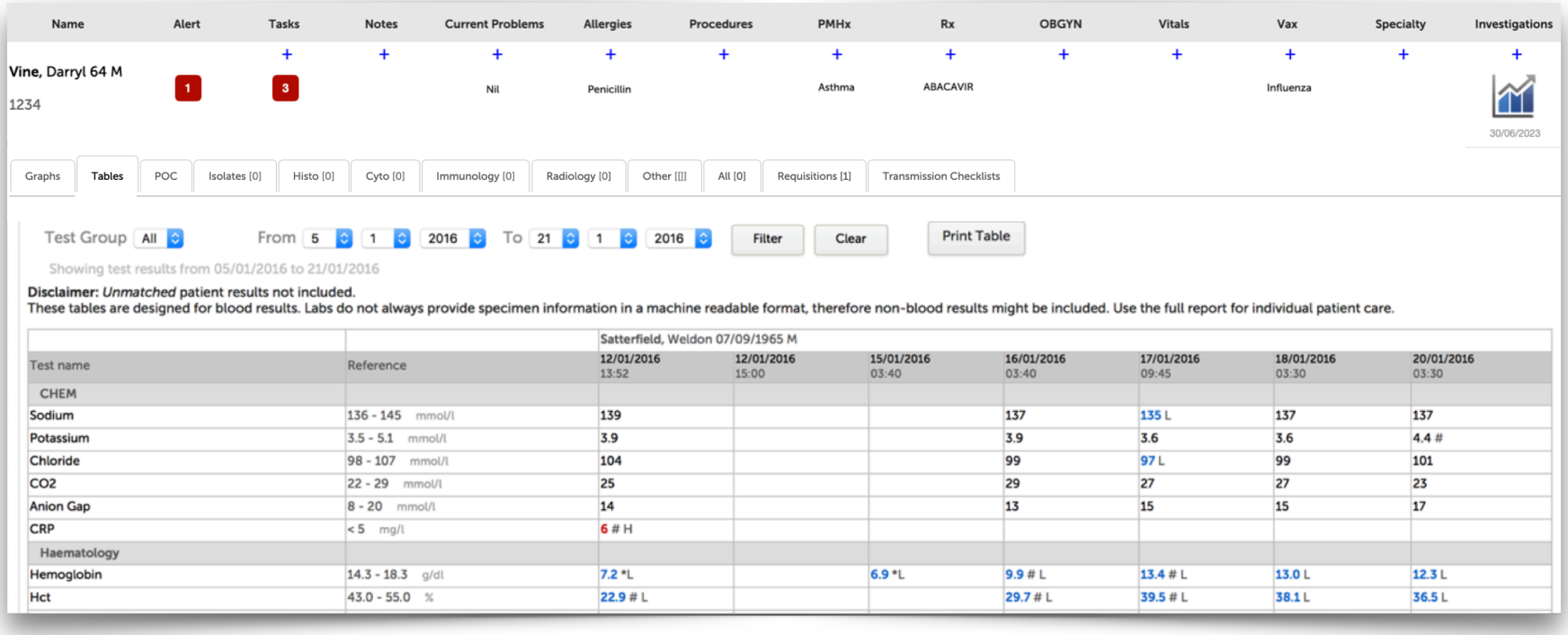
Notes:

- Orphaned results, until merged, cannot be allocated to a specific patient and will not be shown.
- When present, a red dot above the blue lab icon indicates that there are one or more abnormal septic lab results (such as high WCC, poor renal or liver function or a raised PCT).



- The date and time below the icon, shows the time that the *last* lab result arrived in Bluebird (note: *arrived* **not** the collection date). This is particularly useful when one is waiting for an urgent result.
- If your practice has set up specific groups of tests they wish to see at once, for example tests specific to a renal patient, one can filter by that group using the "**Test Group**" filter.

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Name	Alert	Tasks	Notes	Current Problems	Allergies	Procedures	PMHx	Rx	OBGYN	Vitals	Vax	Specialty	Investigations
		+	+	+	+	+	+	+	+	+	+	+	+
Vine, Darryl 64 M 1234	1	3		Nil	Penicillin		Asthma	ABACAVIR			Influenza		30/06/2023

Graphs | Tables | POC | Isolates [0] | Histo [0] | Cyto [0] | Immunology [0] | Radiology [0] | Other [[]] | All [0] | Requisitions [1] | Transmission Checklists

Test Group All From 5 1 2016 To 21 1 2016 Filter Clear Print Table

Showing test results from 05/01/2016 to 21/01/2016

Disclaimer: *Unmatched* patient results not included.
These tables are designed for blood results. Labs do not always provide specimen information in a machine readable format, therefore non-blood results might be included. Use the full report for individual patient care.

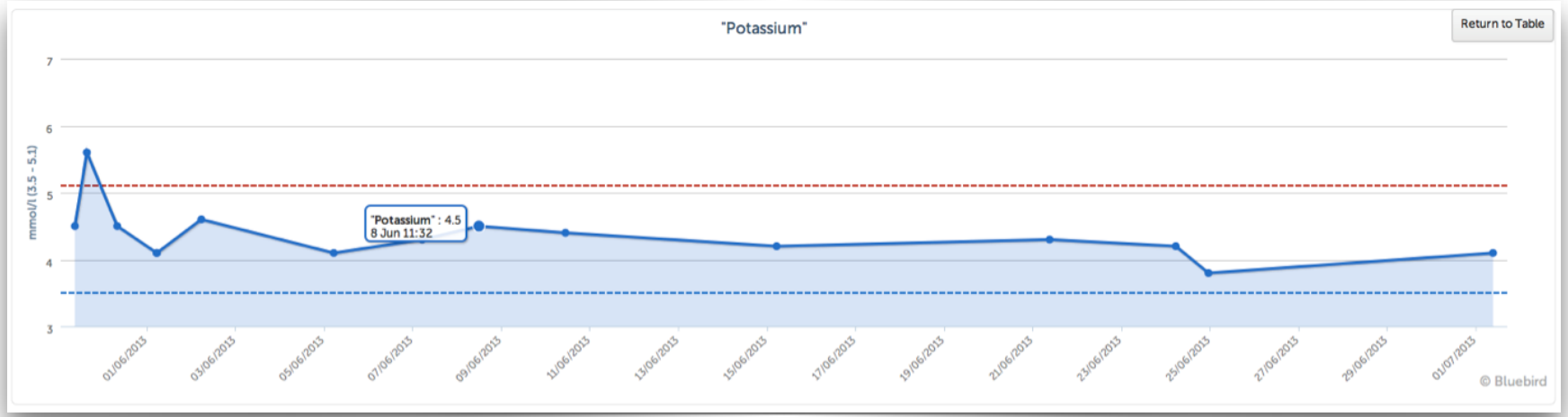
		Satterfield, Weldon 07/09/1965 M						
Test name	Reference	12/01/2016 13:52	12/01/2016 15:00	15/01/2016 03:40	16/01/2016 03:40	17/01/2016 09:45	18/01/2016 03:30	20/01/2016 03:30
CHEM								
Sodium	136 - 145 mmol/l	139			137	135 L	137	137
Potassium	3.5 - 5.1 mmol/l	3.9			3.9	3.6	3.6	4.4 #
Chloride	98 - 107 mmol/l	104			99	97 L	99	101
CO2	22 - 29 mmol/l	25			29	27	27	23
Anion Gap	8 - 20 mmol/l	14			13	15	15	17
CRP	< 5 mg/l	6 # H						
Haematology								
Hemoglobin	14.3 - 18.3 g/dl	7.2 *L		6.9 *L	9.9 # L	13.4 # L	13.0 L	12.3 L
Hct	43.0 - 55.0 %	22.9 # L			29.7 # L	39.5 # L	38.1 L	36.5 L

Notes:

1. Results are colour coded by Bluebird (red = high, blue = low). **Note**: Sometimes labs also add their own markers to abnormal results - in the example above, the lab has included a # to one result and a * to another - Bluebird shows whatever that specific lab places in the result.
2. Clicking the *numeric result* brings up the original full lab report as sent out by the lab.
3. Clicking the *test name* brings up a graph specific for that specific test (the graphs tab shows multiple tests simultaneously) – hovering over data points on the graph brings up detail about the data point – see below.
4. Orphaned lab results (results that cannot be matched to a HIS record) will NOT show on these cumulative tables and graphs and is one of the many reasons to deal actively with orphaned labs.
5. The common reason for a paper lab report not being in your office Bluebird is because the practice was not copied (check the paper report).
6. Occasionally an “old” report reappears in Bluebird. This is because the lab has resent the report (usually because the report was updated or the doctor requested a resend).

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Clicking the *test name* brings up a graph specific for that test.



One can quickly view subsets of special investigations (Micro, Histo, XR) by switching tabs:

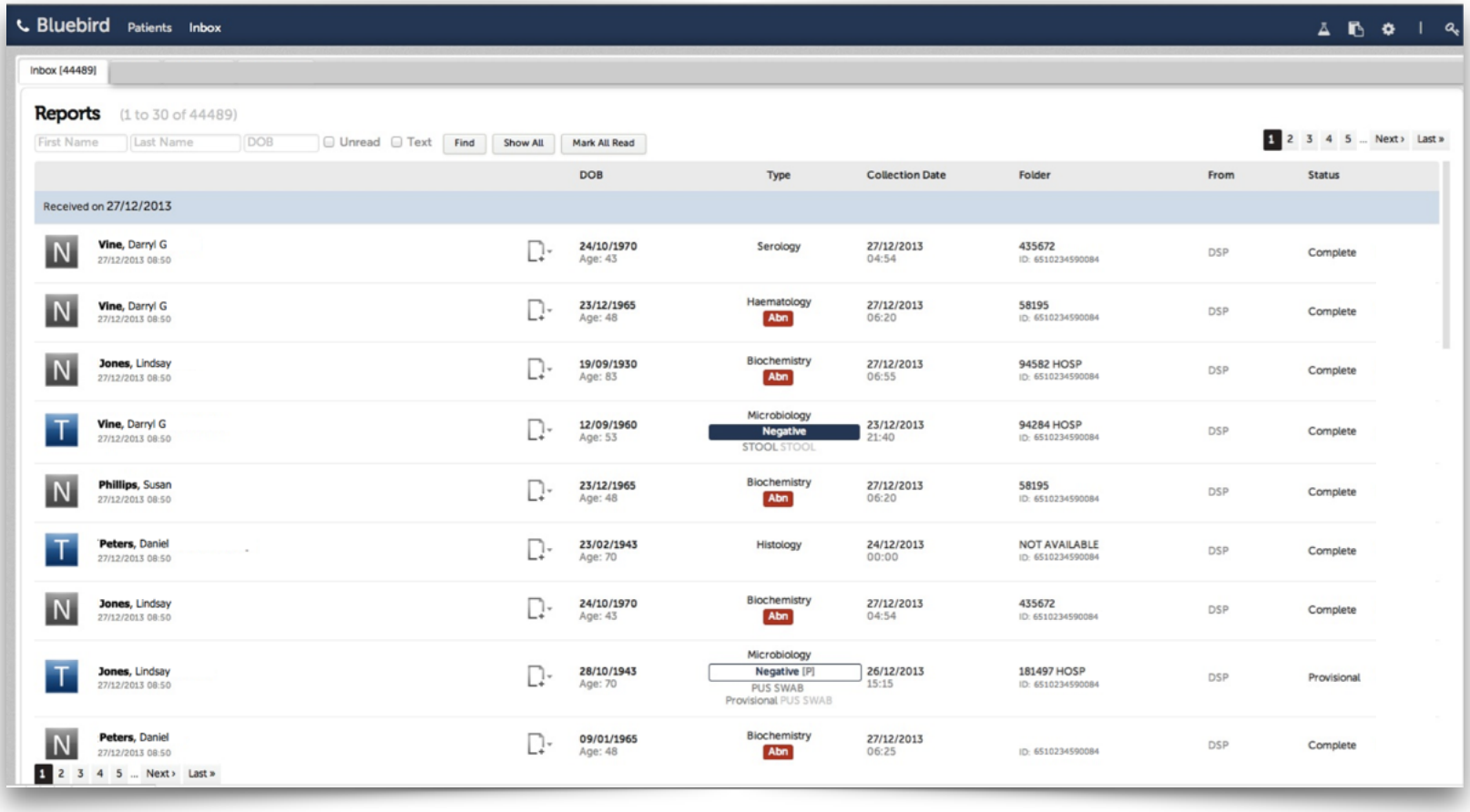


The Requisition tab shows all electronic requisitions for this patient.

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Inbox

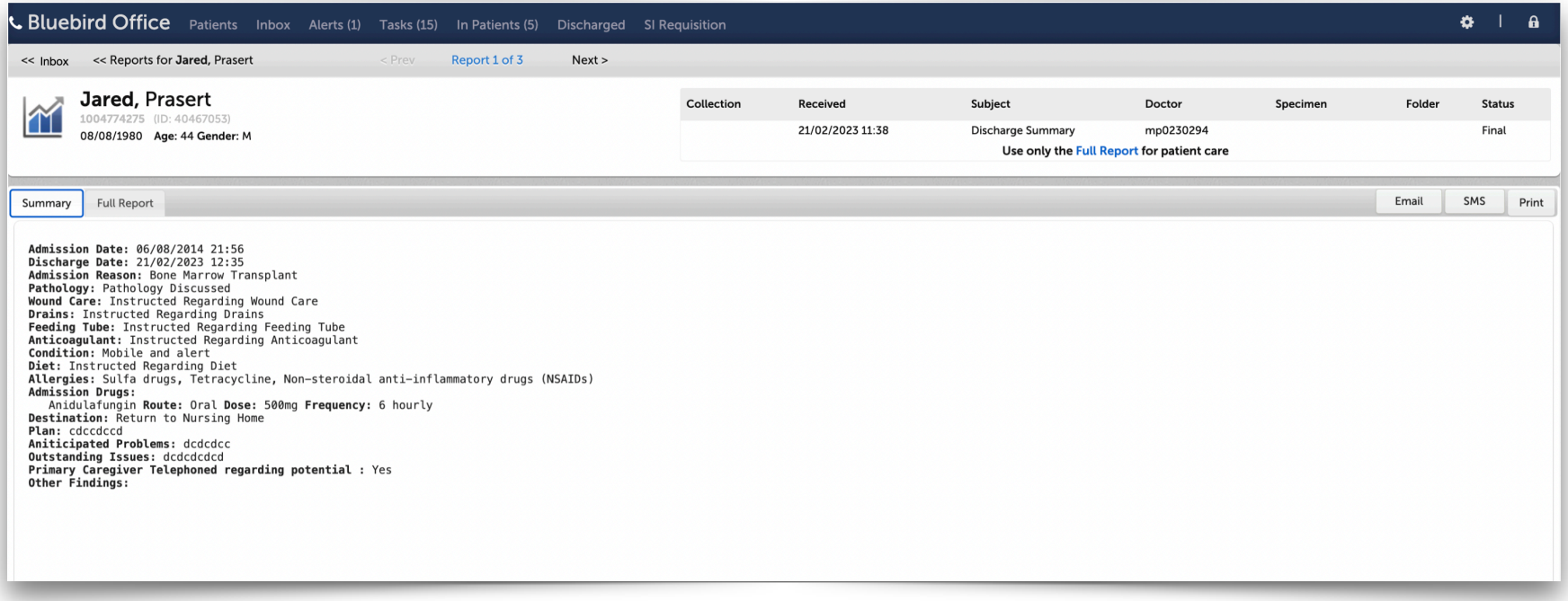
The overwhelming majority of the more than 4 000 South African doctor's that signed up for Bluebird, use Bluebird to access laboratory results (a minority use Bluebird to access radiology reports, referral requests and consultations). The screenshot below shows a list of patient reports in a physician's Bluebird **Inbox**.



Clicking any line item shows the full report as sent from the lab, radiologist or a referring or consulting doctor.

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Clicking any line in the Inbox will open that report:



Return to the Inbox using the Link on the top left of the screen.

The Summary gives just the core test data and excludes information such as addresses, medical aid, laboratory information etc - use the Full Report tab to see the report as would be printed by the Lab.

Communicate with patients using the email and SMS buttons on the top right of the report.

Notes:

- Your name, salutation and how you want to sign off the email/SMS is set in your preferences
- The Normal and Abnormal text sent to the patient is similarly set in your preferences
- The patient email and cell number come from your patient record in Bluebird. If there is no cell, the SMS button will not work, similarly if no email, the email button will not work

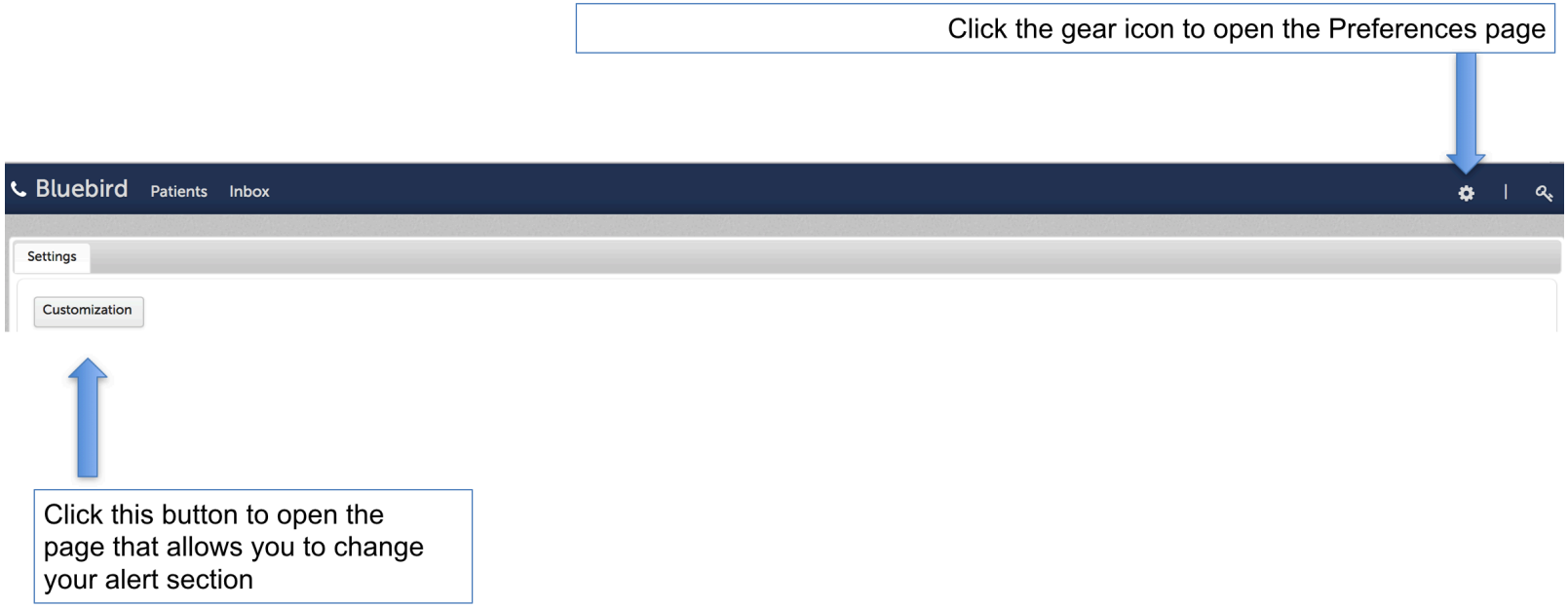
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Alerts

The alerts tab shows alerts sent to you about your inpatients. For example, if an inpatient has a multi drug resistant organism (MDRO) you can elect to receive a real time Bluebird alert. Each patient specific alert is also shown on the patient line (under the Patients Link).

You are able to modify the alerts you wish to receive for your hospital patients.



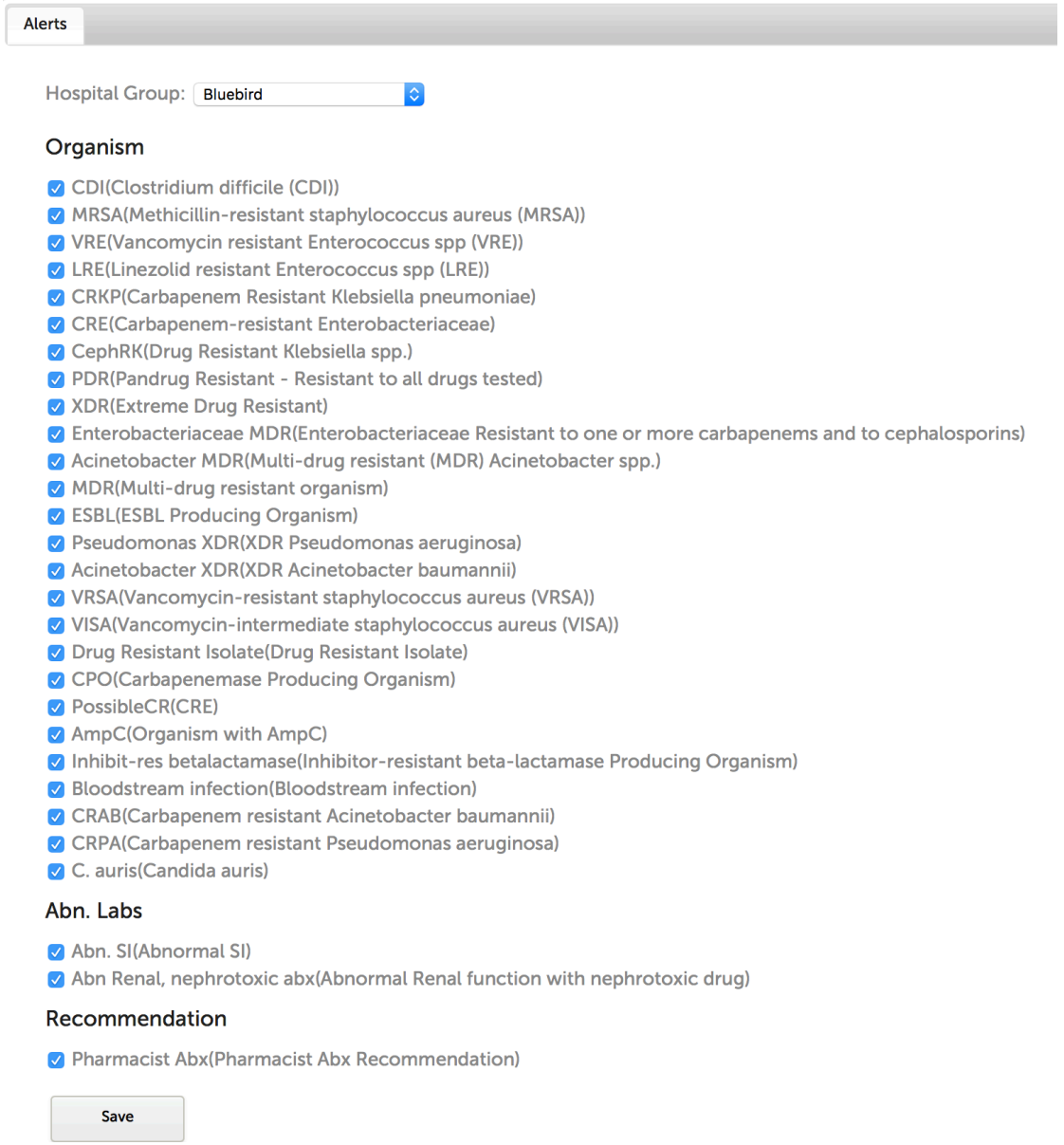
Clicking “Customization” will bring up the alert selection tab shown on the next page.

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The list of the in patient alerts currently offered is shown to the right.

Deselect the inpatient alerts you do not want to see in Bluebird.

Over time you might wish us to provide additional alerts pertaining to your inpatients. Please discuss with your hospital manager.

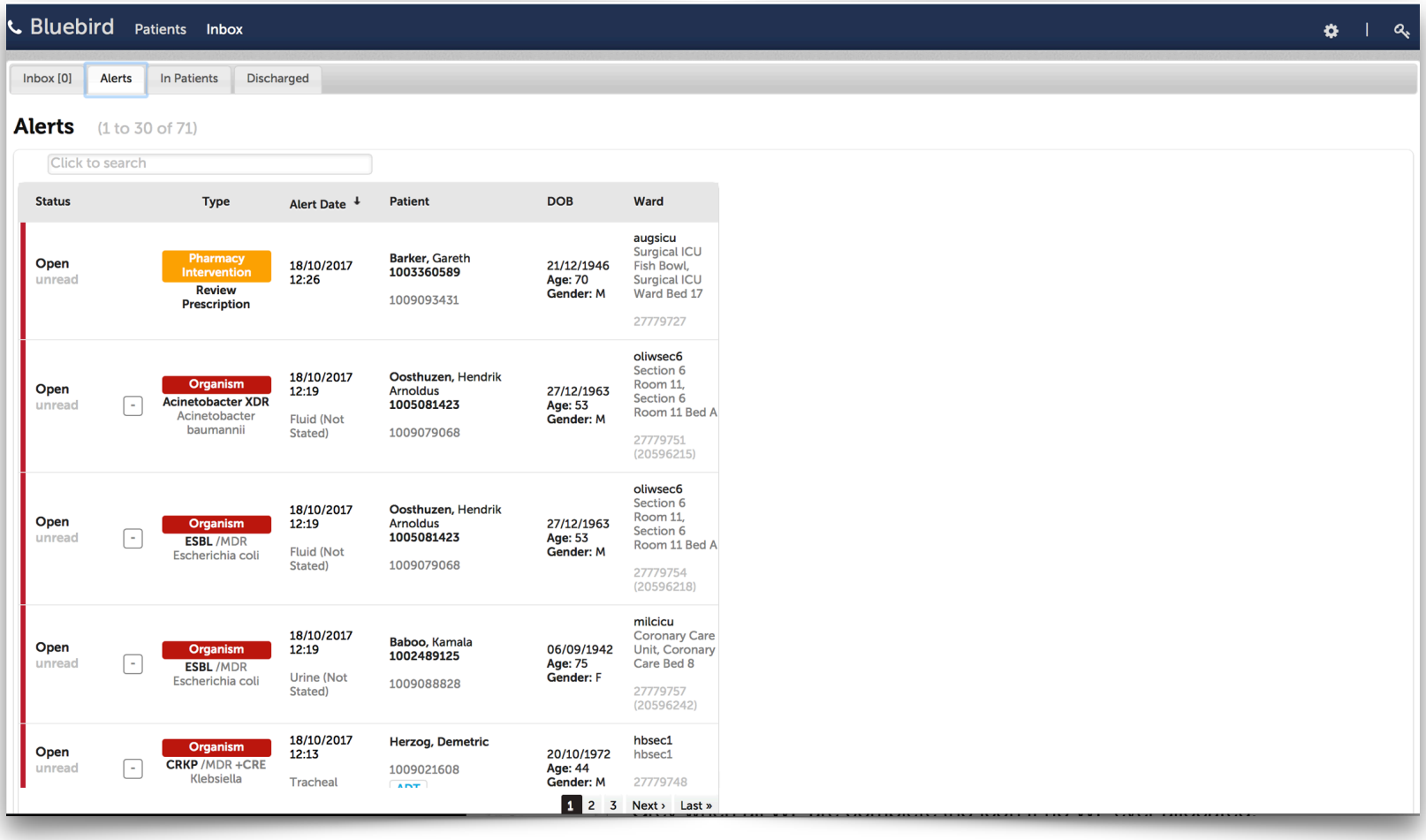


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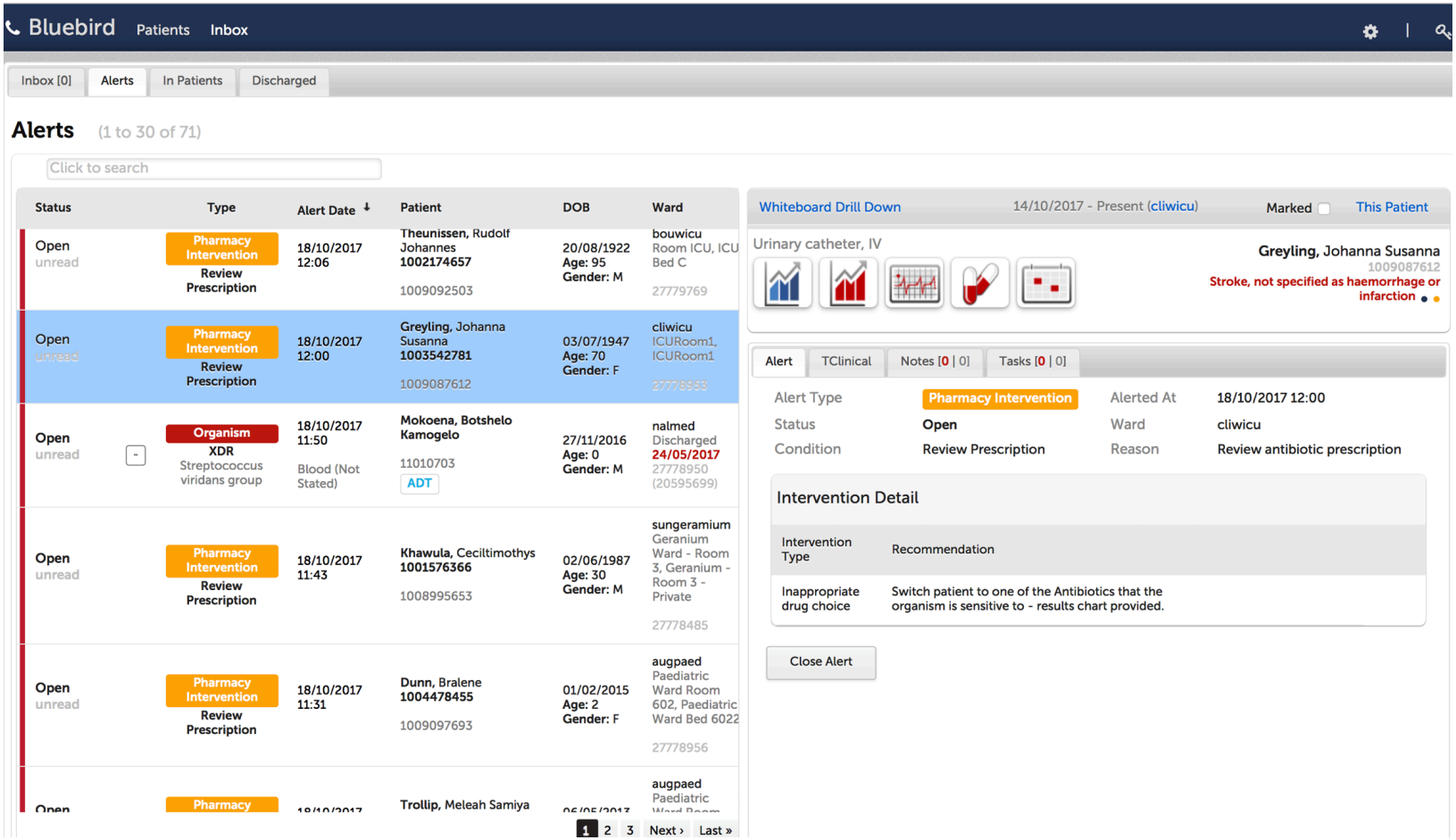
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To review alerts, click the **Alerts Tab** (see screenshot below). This will open a split screen with the left pane showing a line list of alerts.



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Selecting any alert will show alert specific detail on the right pane:



Notes:

1. The selected alert turns blue.

2. Detail is shown on the R Pane

3. To close the alert, the “Close Alert” button must be selected.

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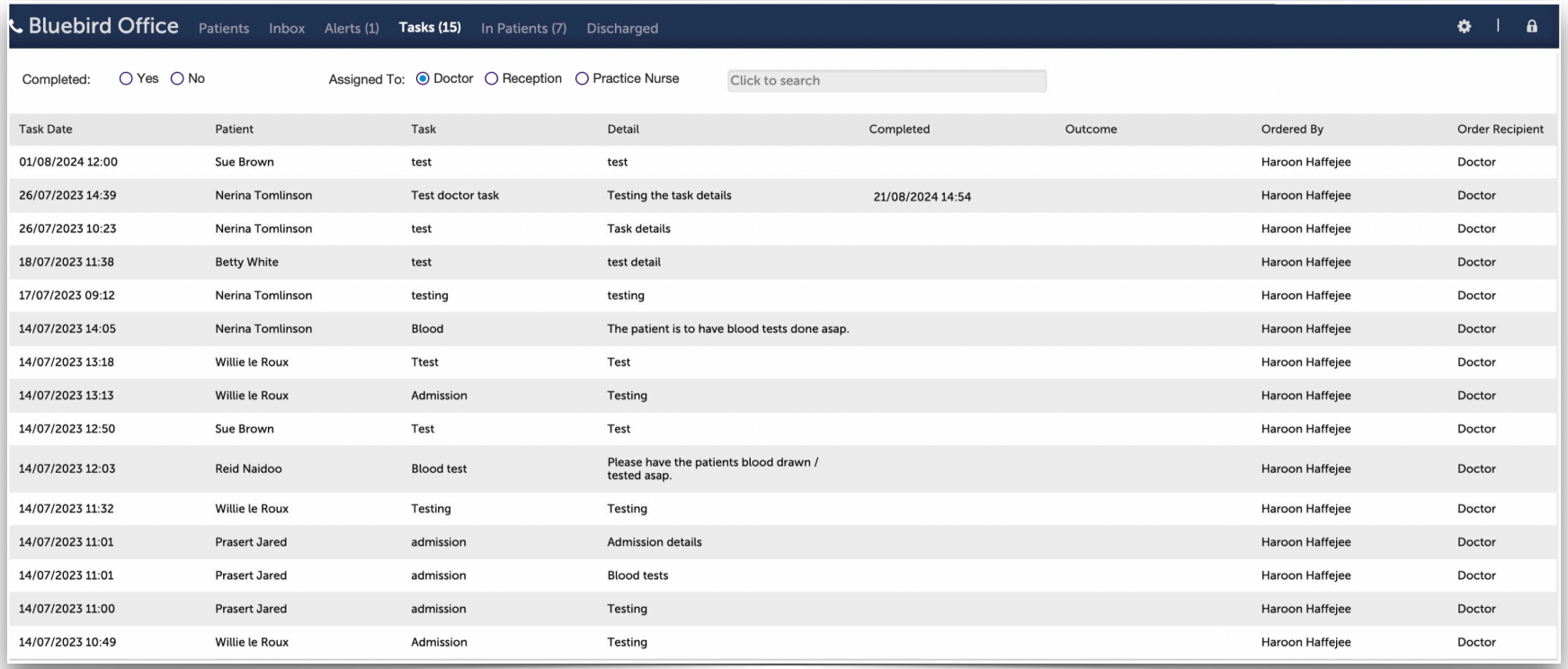
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Tasks



Task Date	Patient	Task	Detail	Completed	Outcome	Ordered By	Order Recipient
01/08/2024 12:00	Sue Brown	test	test			Haroon Haffejee	Doctor
26/07/2023 14:39	Nerina Tomlinson	Test doctor task	Testing the task details	21/08/2024 14:54		Haroon Haffejee	Doctor
26/07/2023 10:23	Nerina Tomlinson	test	Task details			Haroon Haffejee	Doctor
18/07/2023 11:38	Betty White	test	test detail			Haroon Haffejee	Doctor
17/07/2023 09:12	Nerina Tomlinson	testing	testing			Haroon Haffejee	Doctor
14/07/2023 14:05	Nerina Tomlinson	Blood	The patient is to have blood tests done asap.			Haroon Haffejee	Doctor
14/07/2023 13:18	Willie le Roux	Ttest	Test			Haroon Haffejee	Doctor
14/07/2023 13:13	Willie le Roux	Admission	Testing			Haroon Haffejee	Doctor
14/07/2023 12:50	Sue Brown	Test	Test			Haroon Haffejee	Doctor
14/07/2023 12:03	Reid Naidoo	Blood test	Please have the patients blood drawn / tested asap.			Haroon Haffejee	Doctor
14/07/2023 11:32	Willie le Roux	Testing	Testing			Haroon Haffejee	Doctor
14/07/2023 11:01	Prasert Jared	admission	Admission details			Haroon Haffejee	Doctor
14/07/2023 11:01	Prasert Jared	admission	Blood tests			Haroon Haffejee	Doctor
14/07/2023 11:00	Prasert Jared	admission	Testing			Haroon Haffejee	Doctor
14/07/2023 10:49	Willie le Roux	Admission	Testing			Haroon Haffejee	Doctor

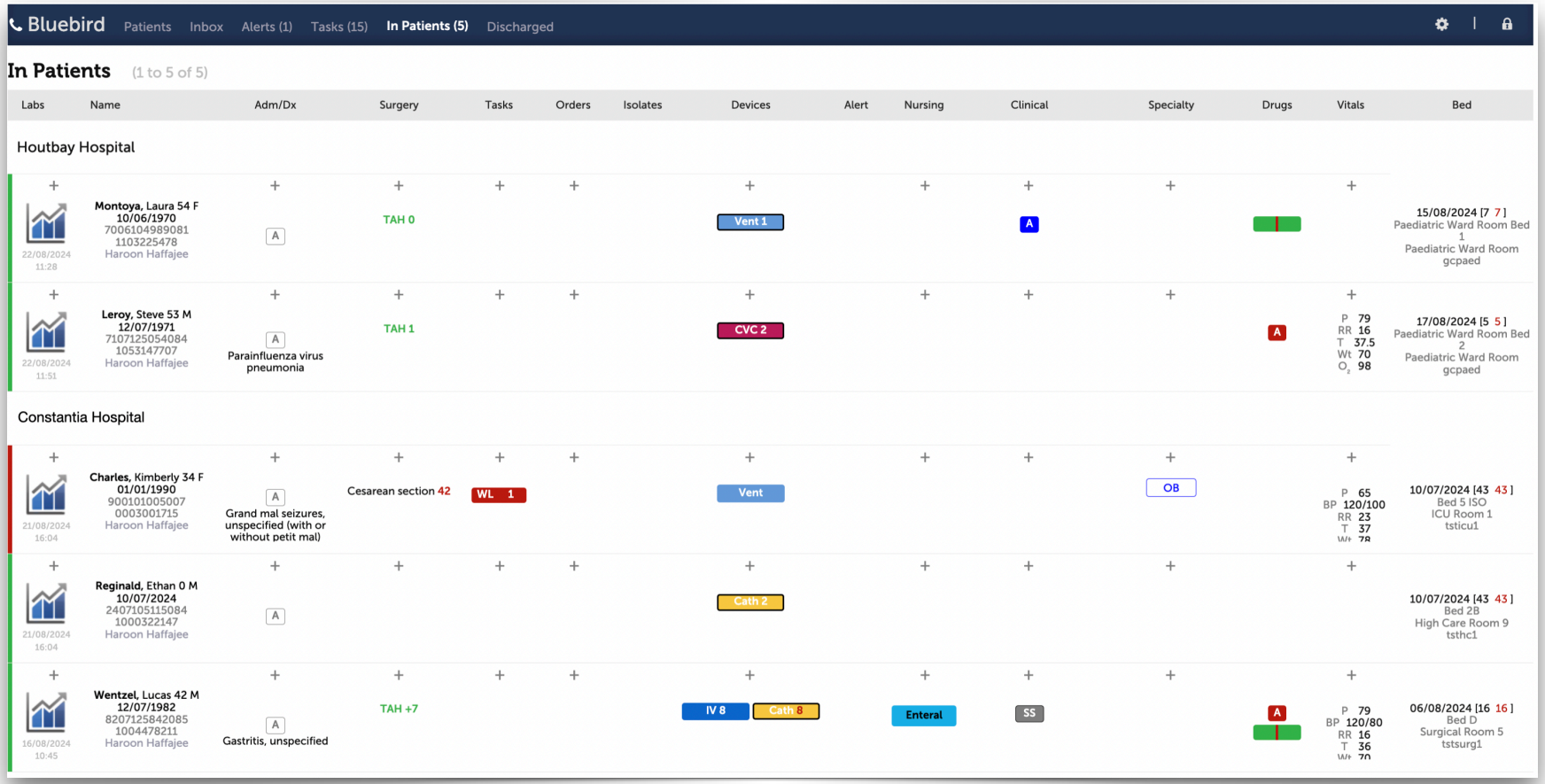
Tasks may be **added** for each specific patient (**Patient line** - Task section + icon). All tasks are shown in the **Tasks** Link in the **Blue Header Bar**.

Click in the **Search bar** to bring up a **Search Box**.

Click in any line without a timestamp in the completed column and a pop up will allow you to document completion of that task. Clicking in any line with a timestamp in the completed column will pop up a read only section showing the documentation for that task completion.

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Inpatients



The **InPatients** link is a real time, “Window to the Ward” which, when selected, shows a list of your patients in any Bluebird enabled hospital (broken down by hospital and ward). Core information for each patient is shown in each patient line.

Note: The left margin colour means that this patient belongs to you (green means your patient with no outstanding tasks, red means there are WL tasks that you need to complete on your inpatient.

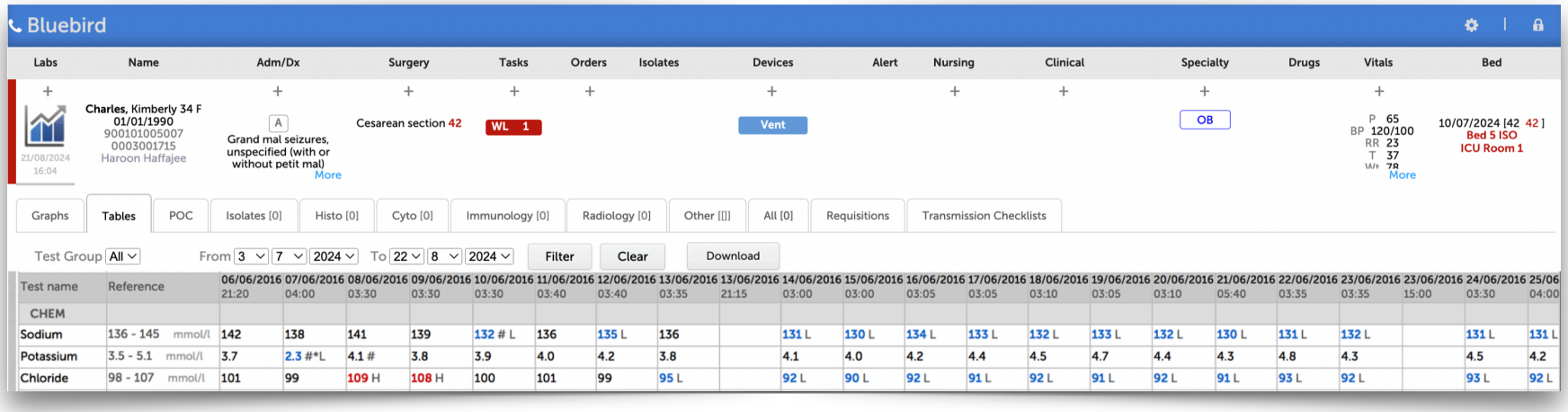
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Clicking any section of the patient line will open a new (secondary) browser tab with detail about the section clicked. In the example below, these are the important things to note:

1. The header of a secondary browser tab is light blue. These tabs are meant to be closed once you have reviewed that section.

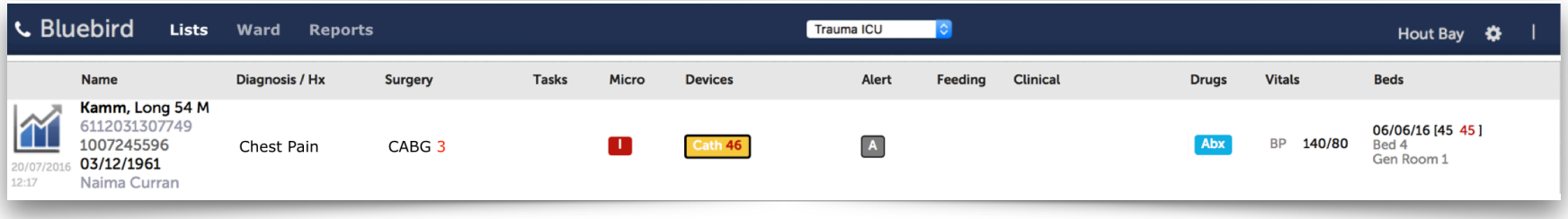
2. The lab section (the one with the blue graph icon) of patient Kimberly Charles has been selected (the grey horizontal bar below the lab section tells you it has been selected) . Below the patient line on this secondary tab shows all the labs for Kimberly Charles during this admission.

3. Only one patient is shown on secondary browser tabs which should be closed once you are done with this subset of information. This is in contrast with the primary Blue header tab which remains open.



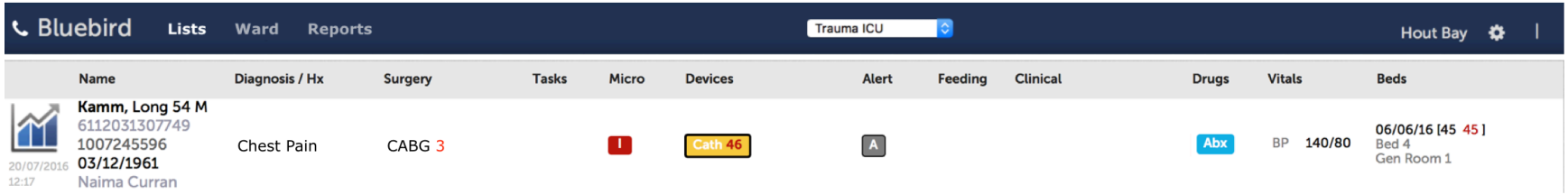
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The clinical information shown is dependent on to what extent the hospital use the full Bluebird EHR, for example some hospitals use only the Bluebird infection control module and you will therefore only see infection related information. Hospitals plan to make progressively more information available on the **Inpatient Link.** To begin with, you will get real time access to all labs done on your patients in any Bluebird enabled hospital. Access this function by clicking the lab section (first section) of the patient line. Note that the date and time of the last lab that has arrived for this patient is shown below the graph icon.



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The next image shows the information that fully enabled Bluebird hospitals will make available for each patient.



In this example, this patient was admitted with chest pain, is post op day 3 following a CABG, has a multi drug resistant isolate (the isolate icon is red), has a foley catheter (x 46 days!), is on at least one antibiotic, has a BP of 140/80 and has been in the hospital (and this ward) for 45 days.

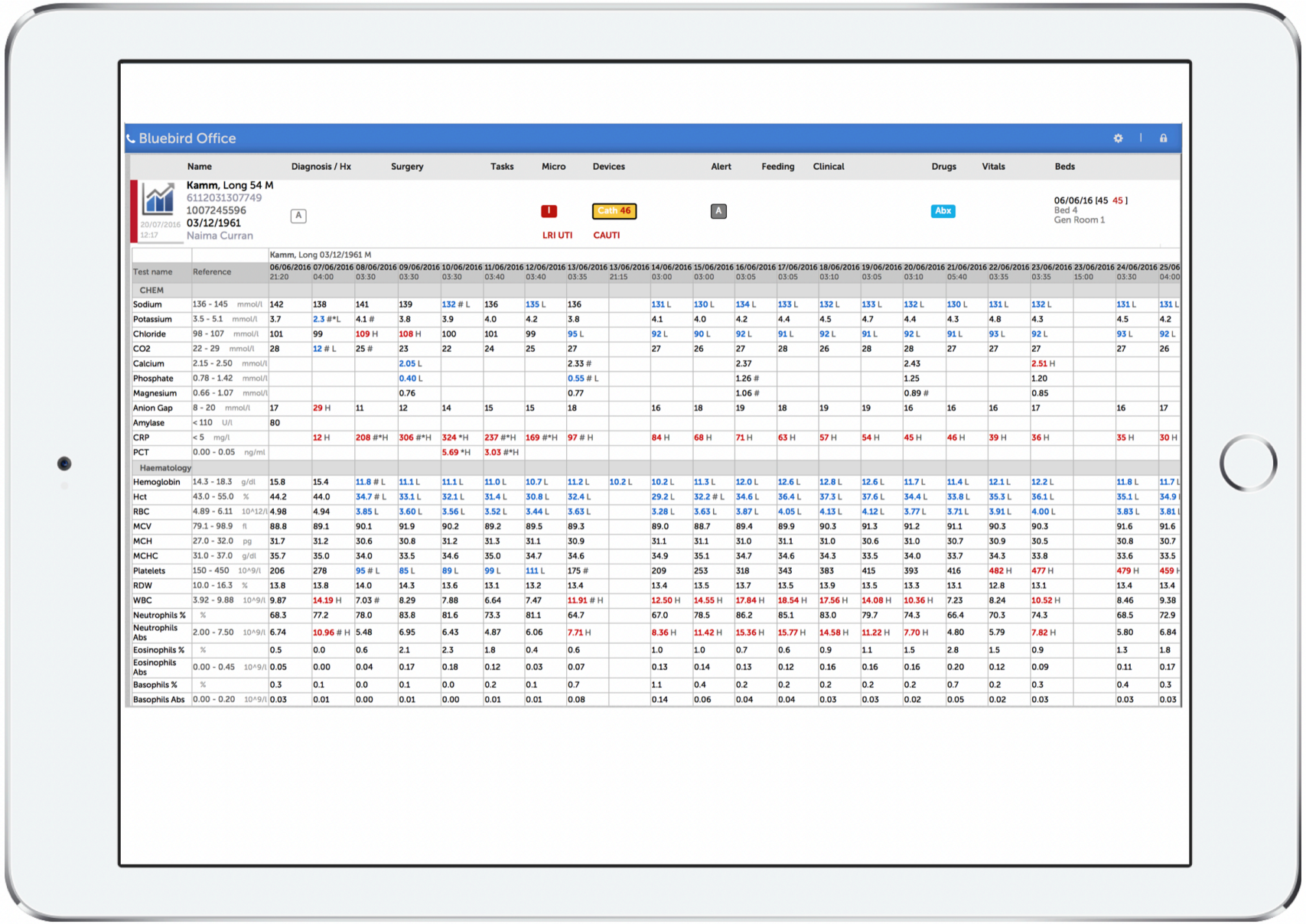
Clicking on any column will pop up more detail about that section, so, for example, clicking the first section (with the graph icon) will pop open a window that displays special investigations done on this patient during the current admission (see next page).

Note that the secondary browser tab that opens with **cumulative lab results** for this patient is light blue.

Note the colour coding of numeric results. Blue indicating abnormally low, and red abnormally high values.

Clicking the numeric result shows the full original lab report.

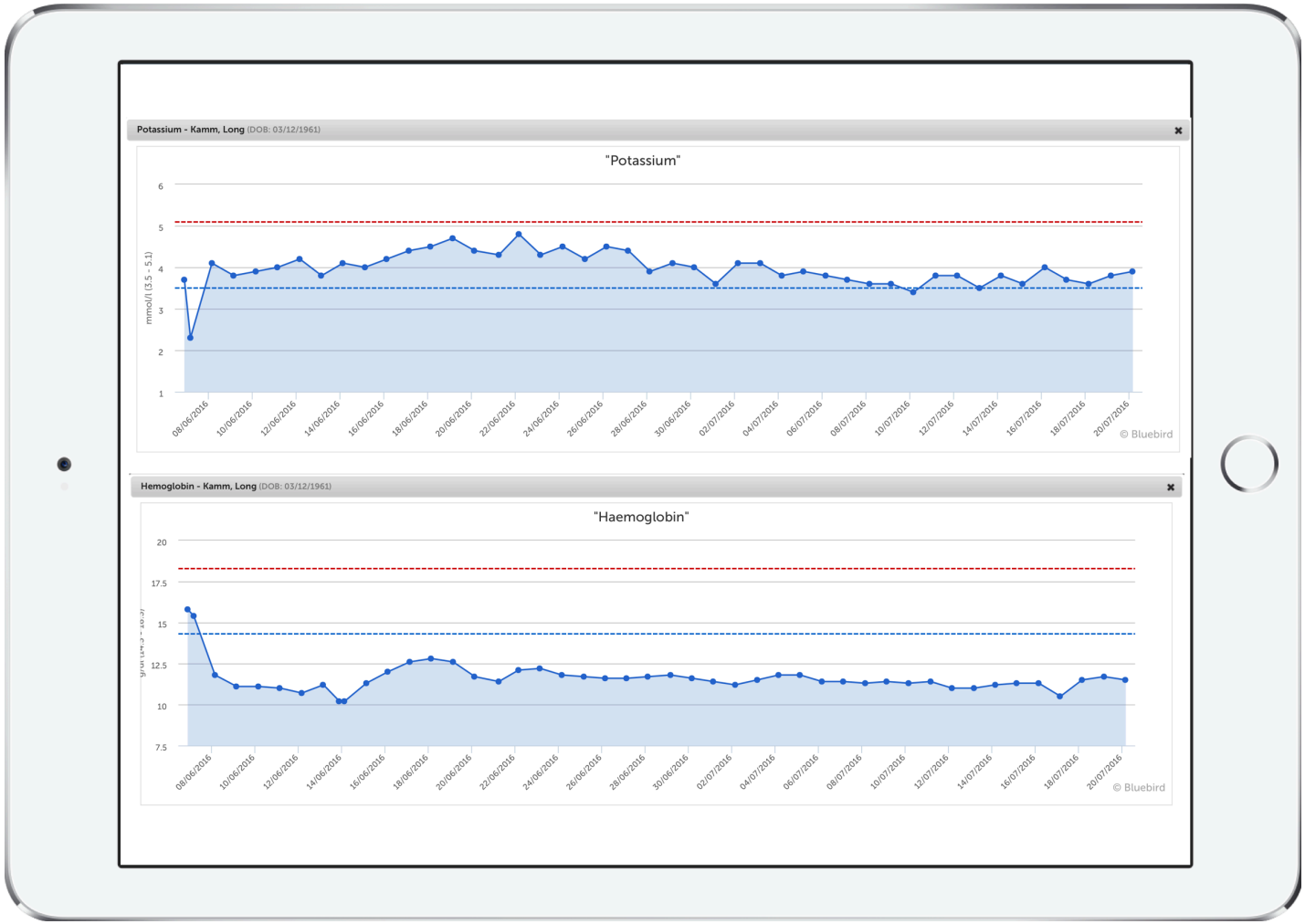
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If one clicks the **Test Name**, the results are shown in a graphic format.



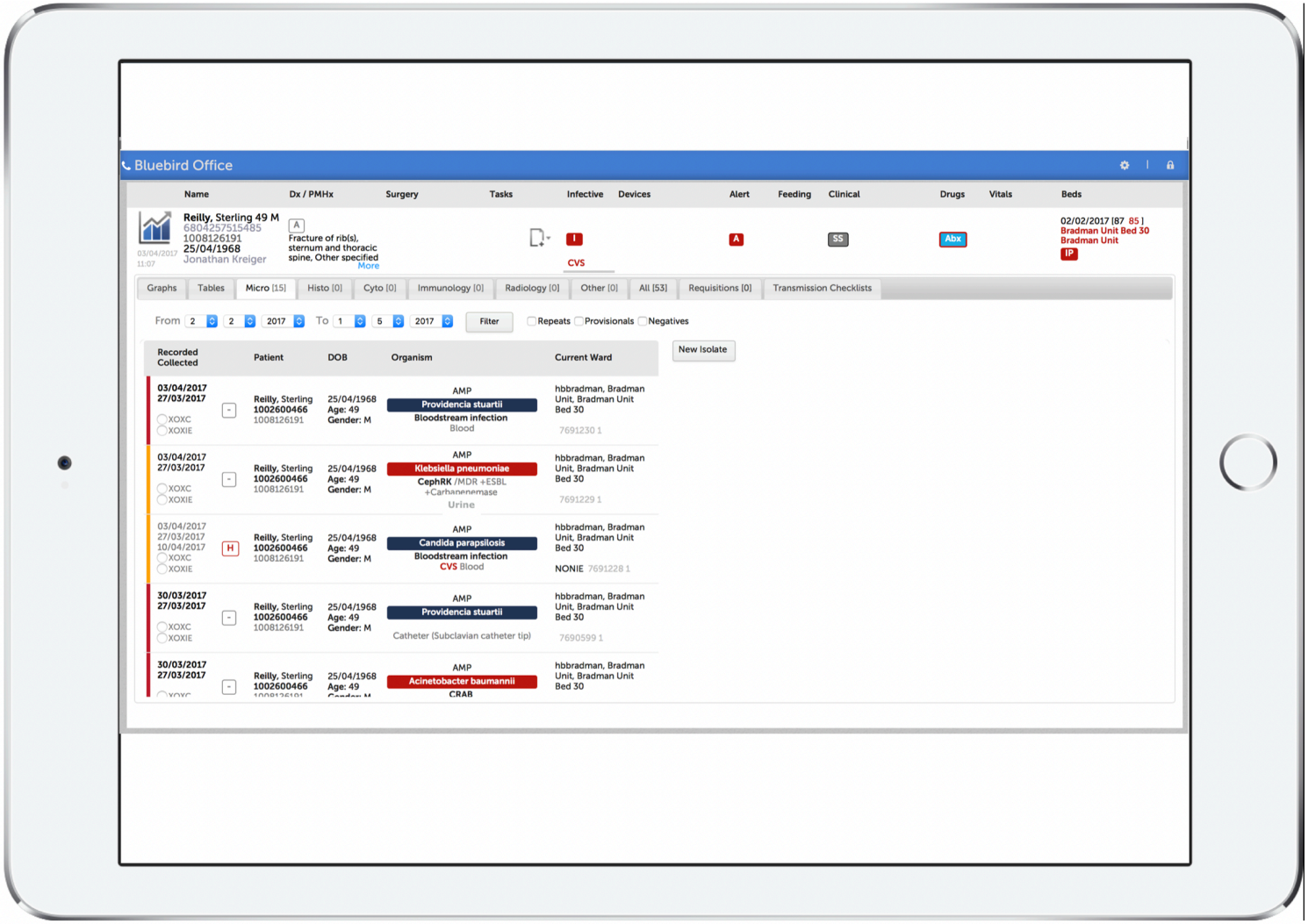
Hovering over any point on the graph brings up a tool tip showing more information.

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The **Infective Section** of the patient line shows the micro results during this admission. Note the grey bar under the **Infective** heading.

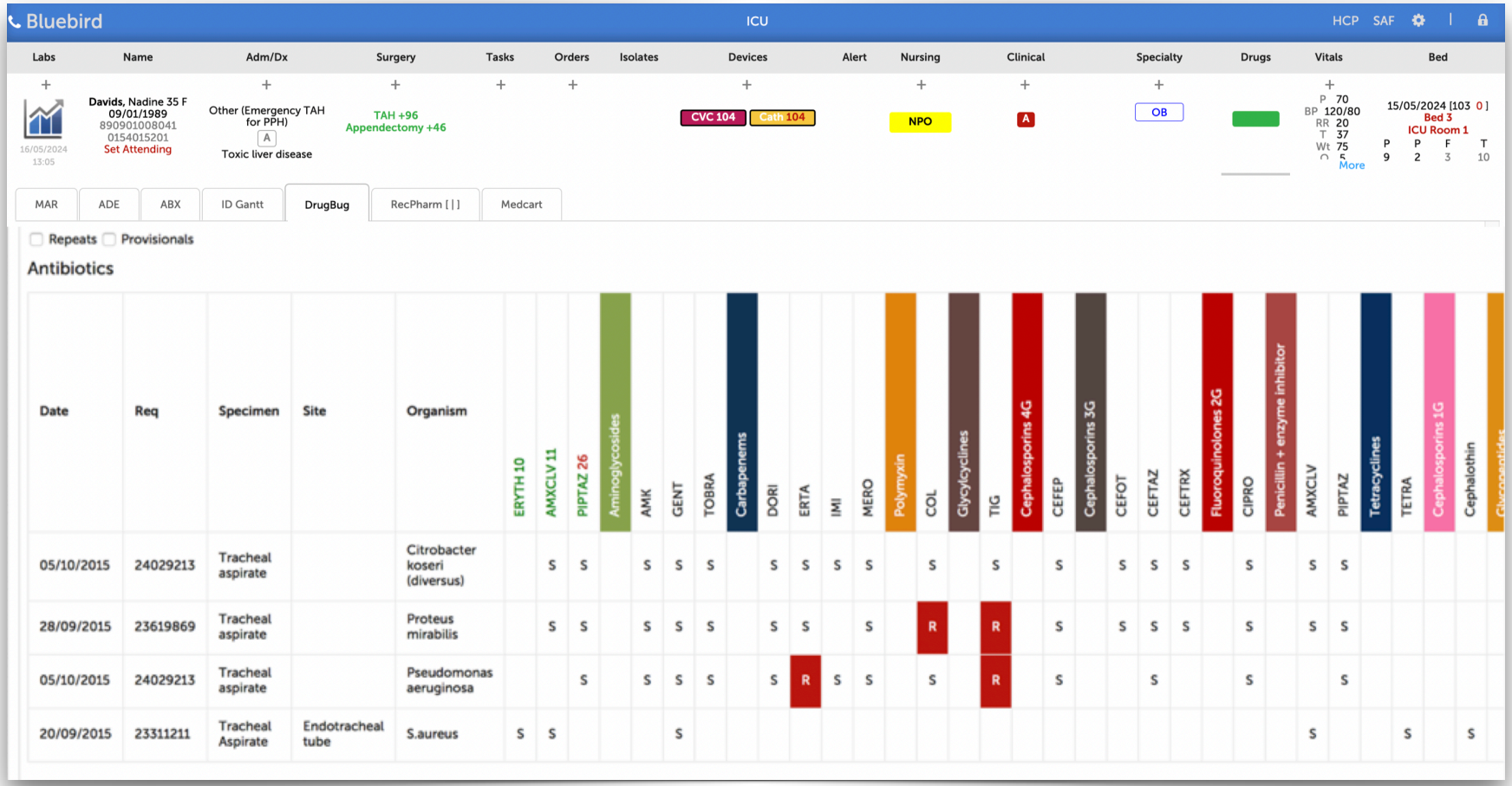
The left pane is a line list of all micro returned. Clicking any item in that list will show detail about that isolate (including the work done by the hospital infection control to classify that isolate).

Note that MDR high risk isolates (typically the ESKAPE isolates) are colour coded red. MDR isolates that usually don't require isolation are coloured orange and non MDROs are blue.



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When the **Drug** section is clicked and the DrugBug Tab is selected, the following screen opens:

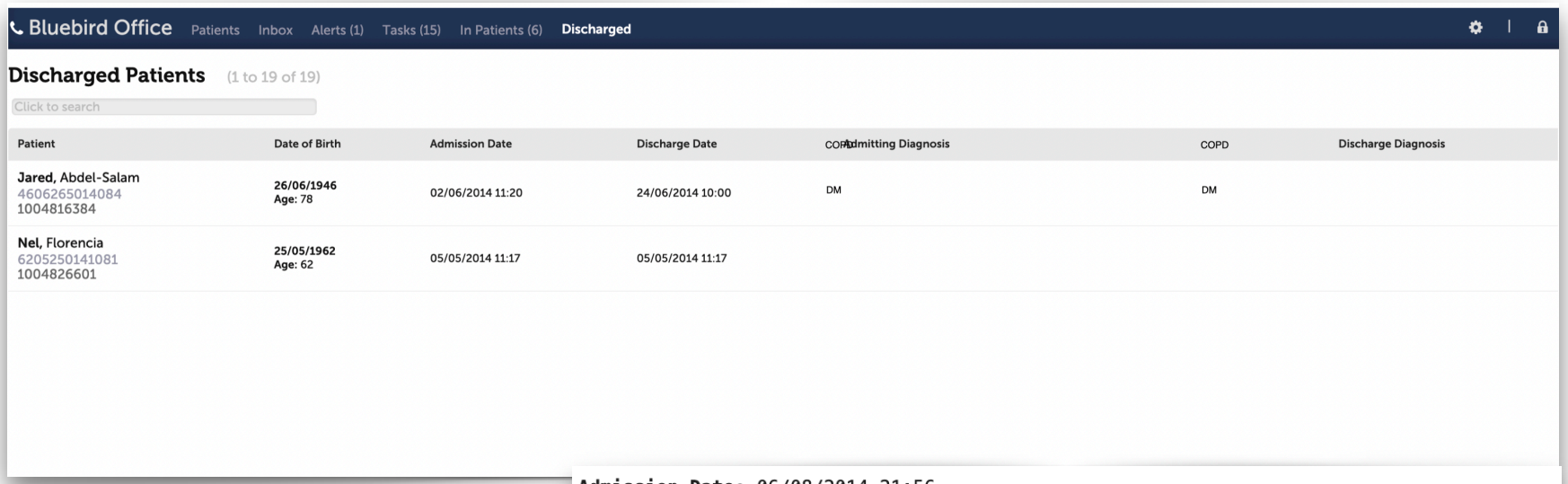


One is quickly able to see the organisms that have been isolated, the antimicrobials prescribed during this admission (green) and those antimicrobials that have been tested against each isolate in the lab. In this case, one is quickly able to see that gentamicin would cover all these organisms!

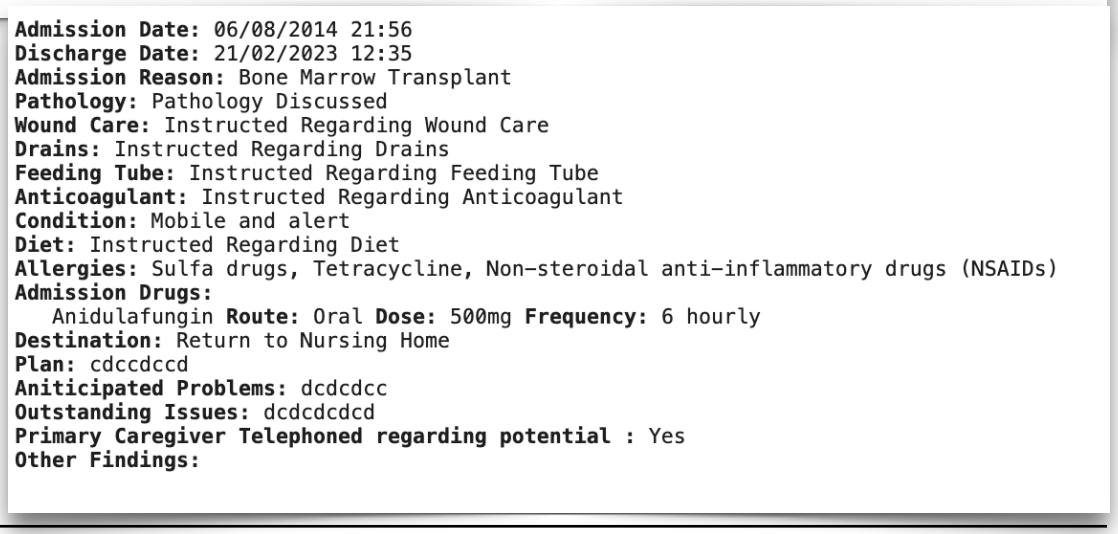
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Discharged

The **Discharged** Link is a line list of your patients that have been discharged from Bluebird enabled hospitals.



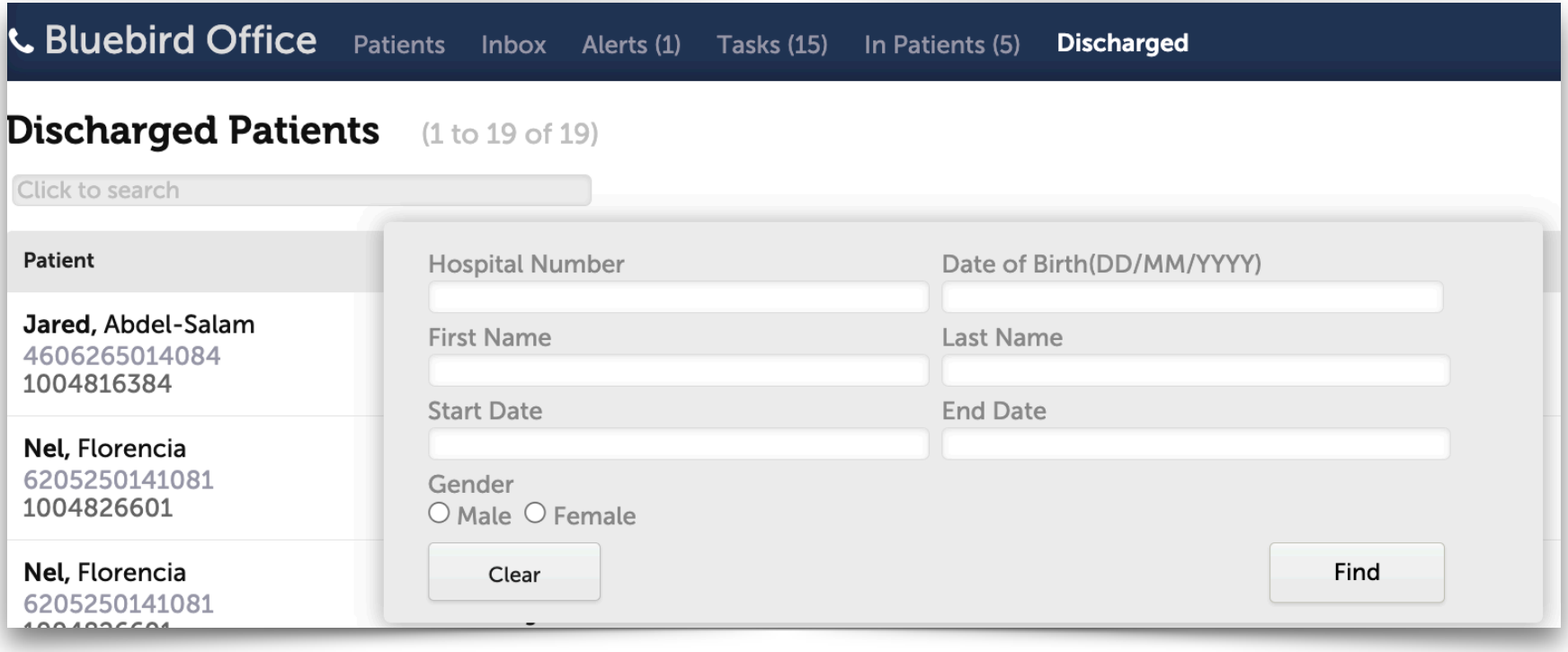
Clicking any line will open the Discharge Summary:



Admission Date: 06/08/2014 21:56
Discharge Date: 21/02/2023 12:35
Admission Reason: Bone Marrow Transplant
Pathology: Pathology Discussed
Wound Care: Instructed Regarding Wound Care
Drains: Instructed Regarding Drains
Feeding Tube: Instructed Regarding Feeding Tube
Anticoagulant: Instructed Regarding Anticoagulant
Condition: Mobile and alert
Diet: Instructed Regarding Diet
Allergies: Sulfa drugs, Tetracycline, Non-steroidal anti-inflammatory drugs (NSAIDs)
Admission Drugs:
Anidulafungin **Route:** Oral **Dose:** 500mg **Frequency:** 6 hourly
Destination: Return to Nursing Home
Plan: cdccdccd
Aniticipated Problems: dcdcdcc
Outstanding Issues: dcdcdcdcd
Primary Caregiver Telephoned regarding potential : Yes
Other Findings:

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Use the **Search Bar** to pop op the **Search Box** to find specific **Discharge Summaries**:



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