# Bluebird

## Window to the Ward



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### Introduction

For more than 20 years South African doctors have trusted Bluebird to reliably manage their laboratory results. More than 70 private South African hospitals also put their trust in Bluebird's electronic laboratory service.

Doctors with patients in Bluebird enabled hospitals have an enhanced Bluebird service that facilitates:

- 1. Real time, remote access to their patient's **lab results** at any Bluebird enabled hospital.
- 2. Real time, remote access to their patient's **location** in any Bluebird enabled hospital. Over time this feature will be enhanced further to show summary data for those patients.
- 3. Real time, remote access to **infection control alerts** in any Bluebird enabled hospital. Over time this feature will be enhanced further to show a broader range of alerts, including those for abnormal labs.
- 4. Remote access to a list of that doctor's **patients discharged** from any Bluebird enabled hospital. Over time this feature will be enhanced further to show summary data about those discharged patients.

## **Current Doctor's Bluebird Interface (without Hospital Access)**

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 physicians Bluebird **Inbox**.

Bluebird Patients Inbox						∆ 16 ¢ I
xxx [44489]						
Reports (1 to 30 of 44489) First Name (Last Name (DOB ) Unread I Text	Find Show All Mark All Read				1	2 3 4 5 Next> Las
	DOB	Туре	Collection Date	Folder	From	Status
Received on 27/12/2013						
Vine, Darryl G 27/12/2013 08:50	[]. <b>24/10/1970</b> Age: 43	Serology	<b>27/12/2013</b> 04:54	435672 ID: 6510234590084	DSP	Complete
N Vine, Darryl G 27/12/2013 08:50	23/12/1965 Age: 48	Haematology Abn	<b>27/12/2013</b> 06:20	58195 ID: 6510234590084	DSP	Complete
N Jones, Lindsay 27/12/2013 08:50	☐ <b>19/09/1930</b> Age: 83	Biochemistry Abn	<b>27/12/2013</b> 06:55	94582 HOSP ID: 6510234590084	DSP	Complete
Vine, Darryl G           27/12/2013 08:50	[].↓ 12/09/1960 Age: 53	Microbiology Negative STOOL STOOL	<b>23/12/2013</b> 21:40	94284 HOSP ID: 6510234590084	DSP	Complete
N Phillips, Susan 27/12/2013 00:50	23/12/1965 Age: 48	Biochemistry Abn	<b>27/12/2013</b> 06:20	58195 ID: 6510234590084	DSP	Complete
T Peters, Daniel 27/12/2013 08:50	23/02/1943 Age: 70	Histology	<b>24/12/2013</b> 00:00	NOT AVAILABLE ID: 6510234590084	DSP	Complete
N Jones, Lindsay 27/12/2013 08:50	24/10/1970 Age: 43	Biochemistry Abn	<b>27/12/2013</b> 04:54	<b>435672</b> ID: 6510234590084	DSP	Complete
<b>Jones, Lindsay</b> 27/12/2013 08:50	<b>28/10/1943</b> Age: 70	Microbiology Negative [P] PUS SWAB Provisional PUS SWAB	26/12/2013 15:15	181497 HOSP ID: 6510234590084	DSP	Provisional
Peters, Daniel           27/12/2013 08:50           2         3         4         5         Next > Last >	Q= 09/01/1965 Age: 48	Biochemistry Abn	<b>27/12/2013</b> 06:25	ID: 6510234590084	DSP	Complete

Clicking any line item shows the full report as sent from the lab, radiologist or referring or consulting doctor. One can also create lab requisitions.

This "Window to the Ward" service gives Bluebird doctors remote access to their patients in any participating Bluebird enabled hospital!

## New Interface for Doctors with Patients in Bluebird enabled Hospitals

In addition to the **Inbox** (blue arrow in the image below), there are **3 new tabs** (gold arrows), each of which is discussed separately below. The 3 new functions (Alerts, InPatient Remote Access and a list of Discharged Patients) make it dramatically easier for doctors working in Bluebird enabled hospitals to provide optimal care for their patients.



## **Alerts Tab**

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.

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

	Click the gear icon to open the Preferences page
<b>&amp; Bluebird</b> Patients Inbox	🗴   Q
Settings	
Customization	
Click this button to open the page that allows you to change your alert section	

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

 Alerts

 Hospital Group:
 Bluebird

 Organism

 CDI(Clostridium difficile (CDI))
 MRSA(Methicillin-resistant staphylococcus aureus (MRSA))
 VRE(Vancomycin resistant Enterococcus spp (VRE))
 LRE(Linezolid resistant Enterococcus spp (LRE))
 CRKP(Carbapenem Resistant Klebsiella pneumoniae)

 See
 CRE(Carbapenem-resistant Enterobacteriaceae)

- CephRK(Drug Resistant Klebsiella spp.)
- PDR(Pandrug Resistant Resistant to all drugs tested)
- ✓ XDR(Extreme Drug Resistant)
- Z Enterobacteriaceae MDR(Enterobacteriaceae Resistant to one or more carbapenems and to cephalosporins)
- Acinetobacter MDR(Multi-drug resistant (MDR) Acinetobacter spp.)
- MDR(Multi-drug resistant organism)
- ESBL(ESBL Producing Organism)
- Pseudomonas XDR(XDR Pseudomonas aeruginosa)
- Acinetobacter XDR(XDR Acinetobacter baumannii)
- VRSA(Vancomycin-resistant staphylococcus aureus (VRSA))
- ✓ VISA(Vancomycin-intermediate staphylococcus aureus (VISA))
- Drug Resistant Isolate(Drug Resistant Isolate)
- CPO(Carbapenemase Producing Organism)
- PossibleCR(CRE)
- AmpC(Organism with AmpC)
- Inhibit-res betalactamase(Inhibitor-resistant beta-lactamase Producing Organism)
- Bloodstream infection(Bloodstream infection)
- CRAB(Carbapenem resistant Acinetobacter baumannii)
- CRPA(Carbapenem resistant Pseudomonas aeruginosa)
- C. auris(Candida auris)

#### Abn. Labs

- Abn. SI(Abnormal SI)
- Abn Renal, nephrotoxic abx(Abnormal Renal function with nephrotoxic drug)

#### Recommendation

Pharmacist Abx(Pharmacist Abx Recommendation)

#### Save

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.

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.

Blueb	ird Pat	ients Inbox				
nbox [0]	Alerts	In Patients Disch	narged			
lerts	(1 to 30	of 71)				
Click	to search					
Status		Туре	Alert Date 🕴	Patient	DOB	Ward
<b>Open</b> unread		Pharmacy Intervention Review Prescription	18/10/2017 12:26	Barker, Gareth 1003360589 1009093431	21/12/1946 Age: 70 Gender: M	augsicu Surgical ICU Fish Bowl, Surgical ICU Ward Bed 17 27779727
<b>Open</b> unread	-	Organism Acinetobacter XDR Acinetobacter baumannii	18/10/2017 12:19 Fluid (Not Stated)	Oosthuzen, Hendrik Arnoldus 1005081423 1009079068	27/12/1963 Age: 53 Gender: M	oliwsec6 Section 6 Room 11, Section 6 Room 11 Bed A 27779751 (20596215)
<b>Open</b> unread	-	Organism ESBL /MDR Escherichia coli	18/10/2017 12:19 Fluid (Not Stated)	Oosthuzen, Hendrik Arnoldus 1005081423 1009079068	27/12/1963 Age: 53 Gender: M	oliwsec6 Section 6 Room 11, Section 6 Room 11 Bed A 27779754 (20596218)
<b>Open</b> unread	-	Organism ESBL /MDR Escherichia coli	18/10/2017 12:19 Urine (Not Stated)	Baboo, Kamala 1002489125 1009088828	06/09/1942 Age: 75 Gender: F	milcicu Coronary Care Unit, Coronary Care Bed 8 27779757 (20596242)
<b>Open</b> unread	-	Organism CRKP /MDR +CRE Klebsiella	18/10/2017 12:13 Tracheal	Herzog, Demetric	20/10/1972 Age: 44 Gender: M	hbsec1 hbsec1 27779748

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

ور	Blueb	Dird Pat	tients Inbox											¢   a
	Inbox [0]	Alerts	In Patients Discl	harged										
A	lerts	(1 to 30	of 71)											
	Status	to search	Туре	Alert Date ↓	Patient	DOB	Ward	Whiteboa	ard Drill Do	own	14/10/2017	- Present (cliwicu)	Marked	This Patient
	<b>Open</b> unread		Pharmacy Intervention Review Prescription	18/10/2017 12:06	Theunissen, Rudolf Johannes 1002174657 1009092503	20/08/1922 Age: 95 Gender: M	bouwicu Room ICU, ICU Bed C 27779769	Urinary ca	atheter, IV				Greyling, Jo Stroke, not specified a	hanna Susanna 1009087612 s haemorrhage or infarction ••
	Open unread		Pharmacy Intervention Review Prescription	18/10/2017 12:00	<b>Greyling,</b> Johanna Susanna 1003542781 1009087612	03/07/1947 Age: 70 Gender: F	cliwicu ICURoom1, ICURoom1 27778953	Alert Alert T	TClinical	Notes [0   0]	Tasks [ <b>0</b>   0]	Alerted At	18/10/2017 12:00	
	<b>Open</b> unread	-	Organism XDR Streptococcus viridans group	18/10/2017 11:50 Blood (Not Stated)	Mokoena, Botshelo Kamogelo 11010703 ADT	27/11/2016 Age: 0 Gender: M	nalmed Discharged 24/05/2017 27778950 (20595699)	Status Condi	tion	Open Review Pr	escription	Ward Reason	cliwicu Review antibiotic pr	rescription
-	<b>Open</b> unread		Pharmacy Intervention Review Prescription	18/10/2017 11:43	Khawula, Ceciltimothys 1001576366 1008995653	02/06/1987 Age: 30 Gender: M	sungeramium Geranium Ward - Room 3, Geranium - Room 3 - Private 27778485	Interve Type Inappedrug o	ention ropriate choice	Recommendation Switch patient to organism is sens	on o one of the Antibi itive to - results cl	otics that the hart provided.		
	<b>Open</b> unread		Pharmacy Intervention Review Prescription	18/10/2017 11:31	Dunn, Bralene 1004478455 1009097693	01/02/2015 Age: 2 Gender: F	augpaed Paediatric Ward Room 602, Paediatric Ward Bed 6022 27778956	Clos	e Alert					
	Onen		Pharmacy	10/10/2017	<b>Trollip</b> , Meleah Samiya	1 2 3	augpaed Paediatric Ward Poom Next > Last »							

#### 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.

📞 Bluebir	d Pa	atients Ir	nbox
Inbox [0]	Alerts	In Patients	s Discharged

## **Inpatient Tab**

The feature we are most excited about is the new InPatients Tab, a real time, "Window to the Ward"

which, when selected, shows a line list of your patients in any Bluebird enabled hospital (broken down by hospital and ward). Thumbnail information is shown for each patient:

📞 Blu	iebird Lists	Ward Reports					Trauma ICU	0				Hout Bay 🔅 丨
	Name	Diagnosis / Hx	Surgery	Tasks	Micro	Devices	Alert	Feeding	Clinical	Drugs	Vitals	Beds
20/07/2016	Kamm, Long 54 M 6112031307749 1007245596 03/12/1961 Naima Curran	Chest Pain	CABG 3		٠	Cath 46	A			Abx	BP <b>140/80</b>	<b>06/06/16 [45 45 ]</b> Bed 4 Gen Room 1

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 grey. 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 Long Kamm 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 Long Kamm 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.

📞 Blue	bird IHS																			Hou	t Bay	<b>¢</b> I	٩,
	Name	Diag	nosis / Hx	S	urgery		Tasks	Micro	Dev	vices		Alert	Fee	eding (	Clinical		Dru	ugs V	Vitals	Bed	s		
20/07/2016 12:17	Kamm, Long 54 6112031307749 1007245596 03/12/1961 Naima Curran	M							Ca TI CA	ith 46 UTI		A					At	x		<b>06/0</b> Bed Gen	06/16 [45 4 Room 1	45 ]	
		Kamm, Lo	ng 03/12/19	61 M																			
Test name	Reference	06/06/2016	5 07/06/2016	08/06/2016	09/06/2016	10/06/2016	11/06/2016	12/06/2016	13/06/2016	13/06/2016	5 14/06/2016	15/06/2016	5 16/06/2016	5 17/06/2010	5 18/06/2016	19/06/2016	20/06/2016	21/06/2010	5 22/06/2016	23/06/2016	5 23/06/201	.6 24/06/20	16 25/06
CHEM		21:20	04:00	03:30	03:30	03:30	03:40	03:40	03:35	21:15	03:00	03:00	03:05	03:05	03:10	03:05	03:10	05:40	03:35	03:35	15:00	03:30	04:00
Sodium	136 - 145 mmol/l	142	138	141	139	132 # L	136	135 L	136		131 L	130 L	134 L	133 L	132 L	133 L	132 L	130 L	131 L	132 L		131 L	131 L
Potassium	3.5 - 5.1 mmol/l	3.7	2.3 #*L	4.1 #	3.8	3.9	4.0	4.2	3.8		4.1	4.0	4.2	4.4	4.5	4.7	4.4	4.3	4.8	4.3		4.5	4.2
Chloride	98 - 107 mmol/l	101	99	<b>109</b> H	<b>108</b> H	100	101	99	95 L		92 L	90 L	92 L	<b>91</b> L	92 L	<b>91</b> L	92 L	<b>91</b> L	93 L	92 L		93 L	92 L

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Initially, only a subset of all the clinical information shown above will be available. Hospitals plan to make progressively more information available on the **Inpatient Tab.** 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.

The next image shows what information, hospitals will, over time, 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).

In the beginning Bluebird will not display the surgery, tasks, feeding, clinical or vitals columns, but, as your hospital finds ways to document that information in Bluebird in a timely manner, those columns will be unmasked (at the moment there is a delay in documenting some of that information and hospitals worry that if, for example, the operative procedure only gets documented by day 3, you won't see anything on day 1 and 2).

The next 2 pages show that happens when the lab (first) section of a patient line is selected.

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

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.

	Name	Diagnosis / Hx	к :	Surgery		Tasks	Micro	o De	vices		Alert	Fe	eding	Clinical		D	rugs	Vitals	Be	ds		
20/07/2016 12:17	Kamm, Long 54 M 6112031307749 1007245596 03/12/1961 Naima Curran	A					LRI U	л си	ath 46 AUTI		A					E	bx		06, Ber Ge	<b>/06/16 [45 45 ]</b> d 4 n Room 1		
Test name	Reference 06 21	mm, Long 03/12/1 /06/2016 07/06/201 20 04:00	961 M 6 08/06/201 03:30	6 09/06/2016 03:30	03:30	<b>11/06/2016</b> 03:40	12/06/201 03:40	6 13/06/201 03:35	6 13/06/201 21:15	16 14/06/201 03:00	6 15/06/2016 03:00	5 16/06/20 03:05	03:05	16 18/06/201 03:10	6 19/06/201 03:05	6 20/06/201 03:10	6 21/06/20 05:40	03:35	016 23/06/201 03:35	6 23/06/2016 24// 15:00 03:3	06/2016 25 50 0	<b>5/06</b> 4:00
CHEM	120 110 10 10																					
Sodium	130 - 145 mmol/l 14	2 138	141	139	152 # L	135	135 L	136	-	131 L	130 L	134 L	133 L	132 L	133 L	132 L	130 L	131 L	132 L	131	L 1	2
Chlorida	98 - 107 mmol/l 1	2.3 #*L	4.1 #	5.8	3.9	4.0	4.2	5.8	-	4.1	4.U	4.2	4.4	4.5	4./	4.4	4.3	4.8	4.3	4.5	4	2
CO2	22 - 29 mmol/l 23	12 # 1	25 #	23	22	24	25	27		27	26	27	28	26	28	28	27	27	27	27	- 9	6
Calcium	2.15 - 2.50 mmol/l		20 11	2.051		- 1	2.5	2.33 #	-	2,	20	2.37	20	20	20	2.43		27	2.51 H	27	-	<u> </u>
Phosphate	0.78 - 1.42 mmol/l			0.40 L				0.55 # L				1.26 #				1.25			1.20			-11
Magnesium	0.66 - 1.07 mmol/l			0.76				0.77				1.06 #				0.89 #		_	0.85			
Anion Gap	8 - 20 mmol/l 17	29 H	11	12	14	15	15	18		16	18	19	18	19	19	16	16	16	17	16	13	,
Amylase	< 110 U/L 80	1																				
CRP	< 5 mg/l	12 H	208 #*H	306 #*H	324 *H	237 #*H	169 #*H	97 # H		84 H	68 H	<b>71</b> H	63 H	57 H	54 H	45 H	46 H	<b>39</b> H	36 H	35	H 3	DH
PCT	0.00 - 0.05 ng/ml				5.69 *H	3.03 #*H																
Haematolog	IY																					
Hemoglobin	14.3 - 18.3 g/dl 15	.8 15.4	11.8 # L	11.1 L	11.1 L	11.0 L	10.7 L	11.2 L	10.2 L	10.2 L	11.3 L	12.0 L	12.6 L	12.8 L	12.6 L	11.7 L	11.4 L	12.1 L	12.2 L	11.8	3L 1:	<b>L.7</b> L
Hct	43.0 - 55.0 % 44	.2 44.0	34.7 # L	33.1 L	32.1 L	31.4 L	30.8 L	32.4 L		29.2 L	32.2 # L	34.6 L	36.4 L	37.3 L	37.6 L	34.4 L	33.8 L	35.3 L	36.1 L	35.:	LL 3	4.91
RBC	4.89 - 6.11 10^12/l 4.	98 4.94	3.85 L	3.60 L	3.56 L	3.52 L	3.44 L	3.63 L		3.28 L	3.63 L	3.87 L	4.05 L	4.13 L	4.12 L	3.77 L	3.71 L	3.91 L	4.00 L	3.8	3 L 3.	. <b>81</b> l
MCV	79.1 - 98.9 fl 88	.8 89.1	90.1	91.9	90.2	89.2	89.5	89.3		89.0	88.7	89.4	89.9	90.3	91.3	91.2	91.1	90.3	90.3	91.0	5 9	1.6
MCH	27.0 - 32.0 pg 31	.7 31.2	30.6	30.8	31.2	31.3	31.1	30.9		31.1	31.1	31.0	31.1	31.0	30.6	31.0	30.7	30.9	30.5	30.	8 3	0.7
Distalata	31.0 - 37.0 g/dl 3	./ 35.0	34.0	33.5	34.6	35.0	54.7	34.0		34.9	35.1	34./	34.0	34.3	33.5	34.0	33./	34.3	33.8	33.	5 5	5.5
RDW	10.0 - 16.3 % 13	8 13.8	95 # L 14 0	14 3	13.6	13 1	13.2	175#		13.4	13.5	13.7	13.5	13.9	13.5	13 3	13.1	12.8	13.1	13.4	1 17	
WBC	3.92 - 9.88 10^9/1 9	87 14.19 H	7.03 #	8.29	7.88	6.64	7.47	11.91 # H		12.50 H	14.55 H	17.84 H	18.54 H	17.56 H	14.08 H	10.36 H	7.23	8.24	10.52 H	8.4	5 9	38
Neutrophils %	% 68	.3 77.2	78.0	83.8	81.6	73.3	81.1	64.7		67.0	78.5	86.2	85.1	83.0	79.7	74.3	66.4	70.3	74.3	68.	5 7	2.9
Neutrophils	2 00 - 7 50 1049/1 6	74 10 96 # H	5.48	6.95	6.43	4 87	6.06	7 71 H		8 36 H	11 42 H	15 36 H	15 77 H	14 58 H	11 22 H	7 70 H	4.80	5 79	7 82 H	5.8	0 6	84
Abs Fosinophile %	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 0.0	0.6	21	23	1.8	0.4	0.6		1.0	1.0	0.7	0.6	0.9	11	15	2.8	15	0.9	1 2		8
Eosinophils	0.00 0.45 10/07 0		0.04	0.17	0.19	0.12	0.07	0.07		0.17	0.14	0.17	0.12	0.16	0.16	0.16	0.20	0.12	0.00	1.5	1	47
Abs	0.00-0.45 10^9/10.	0.00	0.04	0.17	0.18	0.12	0.05	0.07		0.15	0.14	0.15	0.12	0.16	0.10	0.16	0.20	0.12	0.09	0.1	. 0	
Basophils %	% 0.	3 0.1	0.0	0.1	0.0	0.2	0.1	0.7		1.1	0.4	0.2	0.2	0.2	0.2	0.2	0.7	0.2	0.3	0.4	0	.3
pasopnils Abs	0.00 - 0.20 10^9/0	0.01	0.00	0.01	0.00	0.01	0.01	80.0		0.14	0.06	0.04	0.04	0.05	0.05	0.02	0.05	0.02	0.03	0.0	5 0	.03

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.

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.

N	ime	Dx / Pf	MHx	Surgery Tasks	Infective Devices	Alert	Feeding Clinical	Drugs	Vitals	Beds
10 1/04/2017 107	eilly, Sterli 304257515 08126191 5/04/1968 5004/1968	ng 49 M 5485 A Fractur sternur reiger spine, 6	e of rib(s), m and thoracic Other specified		Cvs	A	<b>S</b> 5	Abx		02/02/2017 (87 85 ) Bradman Unit Bed 30 Bradman Unit
Graphs	Tables	Micro [15] Hi	sto [0] Cyto	0 [0] Immunology [0] Radie	ology [0] Other [0] All [53	Requisitions [0]	Transmission Checklis	3		
From	2	2017 📀	To 1 📀 5	2017 文 Filter	Repeats Provisionals Neg	atives				
Recorde Collecte	d d	Patient	DOB	Organism	Current Ward	New Isolate				
03/04/2 27/03/20	017 017 -	Reilly, Sterling 1002600466 1008126191	25/04/1968 Age: 49 Gender: M	AMP Providencia stuartii Bloodstream infection Blood	hbbradman, Bradman Unit, Bradman Unit Bed 30 7691230 1					
03/04/20 27/03/20 XOXC XOXIE	017 017	Reilly, Sterling 1002600466 1008126191	25/04/1968 Age: 49 Gender: M	AMP Klebsiella pneumoniae CephRK /MDR +ESBL +Carbapenemase Urine	hbbradman, Bradman Unit, Bradman Unit Bed 30 7691229 1					
03/04/20 27/03/20 10/04/20 XOXC XOXIE	017 017 017 H	Reilly, Sterling 1002600466 1008126191	25/04/1968 Age: 49 Gender: M	AMP Candida parapsilosis Bloodstream infection CVS Blood	hbbradman, Bradman Unit, Bradman Unit Bed 30 NONIE 7691228 1					
30/03/20 27/03/20 XOXC XOXIE	017 017 -	Reilly, Sterling 1002600466 1008126191	25/04/1968 Age: 49 Gender: M	AMP Providencia stuartii Catheter (Subclavian catheter tij	hbbradman, Bradman Unit, Bradman Unit Bed 30 ) 7690599 1					
30/03/20 27/03/20	017 017 -	Reilly, Sterling 1002600466	25/04/1968 Age: 49	AMP Acinetobacter baumannii CRAB	hbbradman, Bradman Unit, Bradman Unit Bed 30					

For now, the **Drugs section** only shows antimicrobials. Other drug categories might be shown in the future. When the **Drug** section is clicked the following screen opens:

Na	ime	Diagno	sis / Hx	Surgery	Т	<b>Tasks</b>		Micro	0	De	vices				Al	ert	F	eedin	g	Clinic	al			Drug	s	Vita	ls		Beds				
/10/2015 (36)	orar, Rock 49 34567890123 006282073 2/12/1965 ohana Klein	M Burn of degree neck	unspecified of head and							C	VC 36				4	3				SS			,	Abx		BP	140/	80	19/09 Burns Burns	/15 [3 Centr Centr	6 35 ] re Roc re Roc	om 4 om 4	Bec
Overview	ABX Dru	gBug Adv	verse Drug Event	t Rec EPA	Rec P	harm	[ <b>0</b>  0	1	Aller	gies							ND	Inter.		New A	bx												
Repeats	Provisionals S																																
Date	Req	Specimen	Site	Organism	ERYTH 10	AMXCLV 11	PIPTAZ 26	Aminoglycosides	AMK	GENT	TOBRA	Carbapenems	DORI	ERTA	IMI	MERO	Polymyxin	COL	Glycylcyclines	TIG	Cephalosporins 4G	Cerer Contribution 20	CEFTAZ	CEFTRX	Fluoroquinolones 2G	CIPRO	Penicillin + enzyme inhibitor	AMXCLV	PIPTAZ	Tetracyclines	TETRA	Cephalosporins 1G	Cephalothin
05/10/2015	24029213	Tracheal aspirate		Citrobacter koseri (diversus)		s	s	Γ	s	s	s		s	s	s	s		s		s		s	s s	s		s		s	s				
28/09/2015	23619869	Tracheal aspirate		Proteus mirabilis		s	s		s	s	s		s	s		s		R		R		s	s s	s		s		s	s				
05/10/2015	24029213	Tracheal aspirate		Pseudomonas aeruginosa			s		s	s	s		s	R	s	s		s		R		s	5			s			s				
20/09/2015	23311211	Tracheal	Endotracheal	S.aureus	s	s				s																		s			s		-

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!

## **Discharged Tab**

The **Discharge Tab** is a line list of your patients that have been discharged from Bluebird enabled hospitals. Initially this will only show the Date of Admission and Date of Discharge.

Later, it is planned that more detailed information will be available and will be accessed by clicking any patient on that list - watch this space.

C Bluebird Patients Inbox				¢	8 I (
Inbox [0] Alerts In Patients Discharged					
Discharged Patients (1 to 16 of 16)					
Patient	Date of Birth	Admission Date	Discharge Date	Discharge Diagnosis	
Hermiston, Charline 6406039834752 1008452477	03/06/1964 Age: 53	02/04/2017 15:08	06/04/2017 13:15		
Schiller, Zoa 2505204924506 1008418104	20/05/1925 Age: 92	13/09/2016 12:25	13/09/2016 12:25		
Schiller, Zoa 2505204924506 1008418104	20/05/1925 Age: 92	11/05/2016 13:37	18/05/2016 17:38		
Hills, Palmer 3705084685636 1006884434	08/05/1937 Age: 78	04/03/2016 00:01	19/03/2016 18:49		
Hills, Palmer 3705084685636 1006884434	08/05/1937 Age: 78	08/02/2016 00:01	03/03/2016 23:59		
Schiller, Zoa 2505204924506 1008418104	20/05/1925 Age: 92	03/02/2016 13:48	12/02/2016 10:00		
Hills, Palmer 3705084685636	08/05/1937 Age: 78	01/08/2015 00:01	07/02/2016 11:58		
Hills, Palmer 3705084685636	08/05/1937 Age: 78	01/08/2015 00:01	07/02/2016 11:58		

Bluebird enabled hospitals can, of course, only provide information that has been *reliably* captured electronically. For the moment that is the organisms isolated in the hospital

Bluebird	[	Discharge Lis	t		
S Bluehird Patients Johov					5 A L I
Inbox (0) Alerts In Patients Discharged Discharged Patients (1 to 12 of 12)				-	
Patient	Date of Birth	Admission Date	Discharge Date	Discharge Diagnosis	
30nes, Lindsay 610626150173 1004003434	20/08/1956 Age: 57	20/01/2014 08:02	22/01/2014 08:02		
Vine, Darryl G 610626150173 1003989339	12/11/1958 Age: 55	15/01/2014 23:14	21/01/2014 11:40		
Phillips, Susan 610626150173 1003988159	21/05/1967 Age: 46	15/01/2014 15:16	21/01/2014 11:39		
Peters, Daniel 610626150173 1003990732	11/05/1934 Age: 79	16/01/2014 10:18	21/01/2014 09:00		
Jones, Lindsay 610626150173 1003979658	16/07/2000 Age: 13	13/01/2014 17:43	20/01/2014 14:02		
Bret, David G 610626150173 1004009017	11/12/1944 Age: 69	20/01/2014 09:45	20/01/2014 09:45		
Michaels, Susan 610626150173 1004009017	11/12/1944 Age: 69	21/01/2014 09:26	20/01/2014 09:45		
Munchin, Daniel 610626150173 1003978477	02/01/1970 Age: 44	13/01/2014 14:00	18/01/2014 11:40		
Halliday, Daniel 610626150173 1003976995	20/01/1974 Age: 40	13/01/2014 10:18	17/01/2014 10:35		

and any antibiotics dispensed during this admission.

Bluebird	Infect	ion Contro	ol Detail			
Special Investigation	n					
Microbiology -Hide						
	Organism	Infection Type	Start Date	End Date	Ward	HAI
	Negative		15/01/2014 21:35	15/01/2014 21:35	gcsec9	
	Negative		15/01/2014 21:35	15/01/2014 21:35	gcsec9	
	Candida species		15/01/2014 21:35		gcsec9	
	Mixed growth contaminants		15/01/2014 21:35		gcsec9	
	Candida species		15/01/2014 21:35		gcsec9	
	Mixed growth contaminants		15/01/2014 21:35		gcsec9	
	Negative		15/01/2014 16:15	15/01/2014 16:15	gcsec9	
	Negative		15/01/2014 16:15	15/01/2014 16:15	gcsec9	

Blue	bird	,	Antibio <sup>.</sup>	tic Deta	ail				
Recorded Antibiotics						D	ocumented Allergies: None	Recorded	
	Drug	Indication	Ordered	Started	Stopped	Route	Dose	Frequency	Duration
	Ciprofloxacin	Conjunctivitis Acute	13/01/2014 20:08	15/01/2014 08:28		Oral		Not Specified	
	Ceftriaxone	Rheumatic Fever	14/01/2014 08:27	14/01/2014 08:56		IV	400mg	2 hourly	3 days

PTO

Over time, hospitals plans to make more information available electronically, and, as that happens, more detail will be available in the discharge summary:

Discharged	54, 610626150173	20/08/1956 Age: 57 Gender: F
+Patient Information	armission	
Discharge diagnosis	*	
Admission Date	20/01/2014 08:02 Discharge Date	
Recorded Devices		
	No procedures were added for this patient during the visit.	
Theatre Procedures	No surgeries were added for this patient during the visit.	
Other procedures		
Condition		
		1
Recorded Antibiotics	No antibiotics were added for this patient during the visit	
Other Drugs	to manous nere added for any patient daring the rise	
o the brage		1
Destination		
Plan		
		1
Anticipated problems		
problemb		h
Outstanding issues		
Other Findings		h
Other Findings		