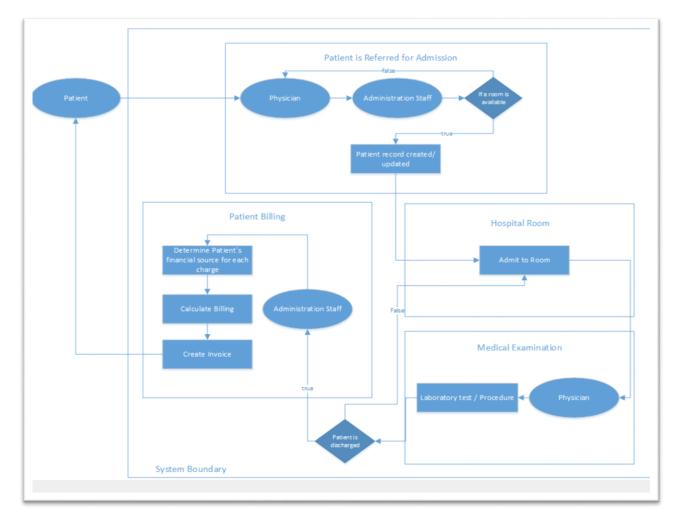
# Mountain View Community Hospital

DBMS Report - April 2016

# System Requirements/Problem Definition

- Support for recording and reporting medical procedure results.
- On-line processing.
- Revenue by cost department tracking/reporting.
- Support for future changes and expansion.
- Retain previous system functionality.

- Mission Statement:
- This new proposed system for MVCH will replicate the operations of the previous system while expanding the capabilities to allow instant custom data entry and retrieval, management of specific resources, the creation of flexible reports, and room for future scalability.
- This system will be a relational database management system developed through the standard DBLC.



#### **System Boundary**

This diagram depicts the process of patient admission through physician referral.

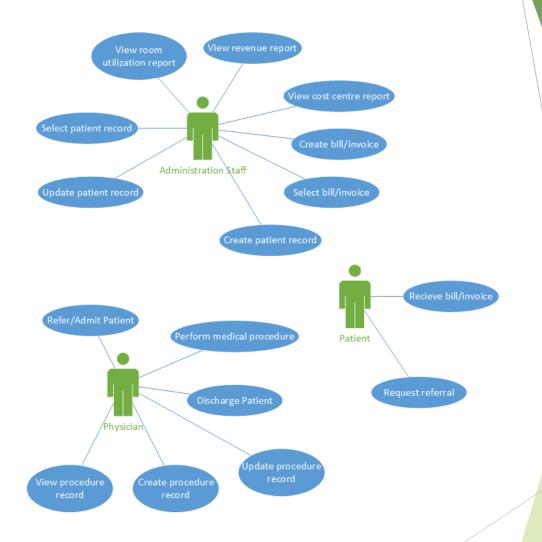
#### **Use Case**

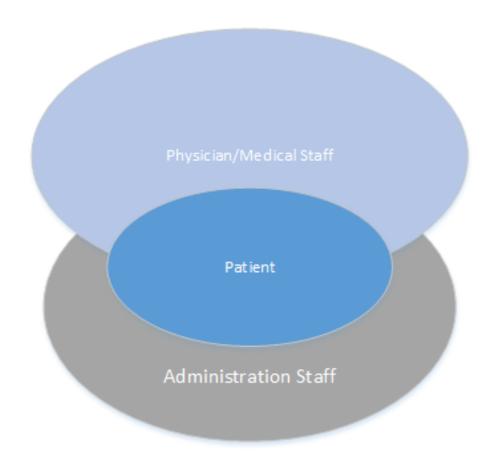
The diagrams depict the process that each of the main actors can perform within this system.

Physician - referral and discharge of patients, medical records.

Administration - Billing, revenue reports, and patient records.

Patients - Receive billing records and request referral.





#### **User Views**

This diagram depicts the restriction of data based on actor type within the system. Medical staff will have access to patient records excluding billing and access to procedure records. Administration staff will have access to billing, revenue, and patient records excluding specific medical information.

#### Tables and attributes

PATIENTS
PATIENT\_ID, PATIENT\_NAME, PATIENT\_ADDRESS, PATIENT\_CITY,

PATIENT\_PROV, PATIENT\_POSTAL\_CODE, PATIENT\_PHONE\_NUMBER,

GENDER, HCN, FINANCIAL\_STATUS

► LOCATION\_ADMITTED PATIENT\_ID, LOCATION\_ID, DATE\_ADMITTED, BILL\_ID, DISCHARGE\_DATE

PHYSICIANS
PHYSICIAN\_ID, PHYSICIAN\_NAME, PHYSICIAN\_PHONE\_NUMBER,

**SPECIALTY** 

PATIENTS\_REFERRED PHYSICAN\_ID, PATIENT\_ID,

ROOMS
LOCATION\_ID, ROOM\_TYPE, EXTENSION

PATIENT\_BILLS
BILL\_ID, BILL\_DATE, BALANCE\_DUE

► SERVICES\_CHARGED <u>BILL\_ID</u>, <u>ITEM\_ID</u>, <u>DATE\_CHARGED</u>, QUANTITY, FINANCIAL\_SOURCE

► ITEMS <u>ITEM\_ID</u>, <u>COST\_CENTRE\_ID</u>, ITEM\_DESCRIPTION, ITEM\_CHARGE

► COST\_CENTRE COST\_CENTRE\_ID, COST\_CENTRE\_NAME

## Sample Reports

	Physician Name	Specialty	Patient ID	location ID	Date Admitted	<u>Discharge</u>	<u>Date</u>
12341	Tanisha Robinson	Neurosurgery					
				100A	1/1/2016 12:00:00AM	1/2/2016	12:00:00AN
			12346	100A	1/2/2016 12:00:00AM		
			12361	105	1/1/2016 12:00:00AM		
12343	Deanna Kerr	Plastic surgery	12349	100A	3/22/2016 12:00:00AM	212512046	. 12-00-001
			12349	100A	3/22/2016 12:00:00AM	3/25/2010	12:00:00A
12344	Hyacinth Burton	General practitione	12353	106B	1/5/2016 12:00:00AM	1/10/2016	12-00-00A
			12333	1000	17372010 12.00.00AW	1710/2010	12.00.00
12345	_ Beck Shannon	General practitione	12356	107A	6/2/2016 12:00:00AM		
12347	Regina Weeks	Ophthalmology					
12347	- Regina Weeks	Ophthalmology	12341	109C	10/28/2016 12:00:00Al	11/3/2016	12:00:00A
12348	Debra Flynn	Pediatrics					
	_	. Colomb	12359	101B	4/1/2016 12:00:00AM	6/20/2016	12:00:00A
			12362	110	1/20/2016 12:00:00AM	1/21/2016	12:00:00A
12353	MacKensie Caldwell	Anesthesiologist					
	-		12353	106B	1/5/2016 12:00:00AM	1/10/2016	12:00:00A
12354	Lillian Mcknight	General practitione					
	_		12358	106A	1/4/2016 12:00:00AM		

### Sample Reports (cont'd)

1/1/2016 12:00:00AM  12346  1/2/2016 12:00:00AM  12349  3/22/2016 12:00:00AM  18 SP 3910  12359  4/1/2016 12:00:00AM		Room Type		Patient ID	Date Admitted
1/2/2016 12:00:00AM  12349  3/22/2016 12:00:00AM  1B SP 3910  12359  4/1/2016 12:00:00AM	100A	SP	3242	12345	
1/2/2016 12:00:00AN  12349  3/22/2016 12:00:00AN  1B SP 3910  12359  4/1/2016 12:00:00AN					1/1/2016 12:00:00AM
12349 3/22/2016 12:00:00A 1B SP 3910 12359 4/1/2016 12:00:00A 5 PR 3572				12346	
3/22/2016 12:00:00A  1B SP 3910  12359  4/1/2016 12:00:00AN					1/2/2016 12:00:00AM
1B SP 3910  12359  4/1/2016 12:00:00AN				12349	
12359 4/1/2016 12:00:00AN 5 PR 3572					3/22/2016 12:00:00AM
12359 4/1/2016 12:00:00AN 5 PR 3572	104B	co.	2040		
5 PR 3572	1016	SP	3910	12359	
					4/1/2016 12:00:00AM
	105	PR	3572		
<u>12361</u>				12361	