

**ASSIGNMENT: Functional Relationship/Adjacency Matrix+Bubble  
Diagrams+Blocking Diagrams**

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**Step 1:****FUNCTIONAL RELATIONSHIP (ADJACENCY) MATRIX/DIAGRAM**

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**Matrix #1:** Develop a matrix representation of ALL program **DEPARTMENTS** indicating the optimal adjacencies. Include a key to clarify representations of proximity. This can be done by hand on graph paper, or digitally.

**Matrix #2:** Develop a matrix representation of the **ASSIGNED DEPARTMENT** indicating the optimal adjacencies. Include a key to clarify representations of proximity. This can be done by hand on graph paper, or digitally.

**Final Format** Professional quality; digital format; free-hand sketch or computer generated, 11x17 format approximately. See examples below and on BB:

**Functional Relationships Matrix/Diagram**

The following diagram illustrates proximity relationships of various functional areas or spaces in a matrix format.

**Proximity Codes for Diagram**

The degree of proximity that is desirable with other departments or areas that share a functional relationship with the Outpatient Clinic is indicated by a scale of 1 to 4 (1 representing the greatest level of adjacency). An "X" entered in the diagram represents a relationship where separation is desirable for the departments or areas in question.

Functional Relationships Diagram

	Volunteer Service	Surgery Service	Supply, Processing, and Distribution	Service Organizations	Radiology Service	Pulmonary Medicine	Prosthetic and Sensory Aids Service	Police and Security Service	Physical Medicine and Rehabilitation Service	Pharmacy Service	Pathology and Laboratory	Outpatient Psychiatric Clinics	Medical Administration Service	Lockers, Toilets and Showers	Lobby	Eye Clinic	Environmental Management Service	Engineering Service	Endoscopy Suite	EEG Laboratory	Education Facilities	Dental Service	Clinic Management Suite	Cardiovascular Laboratories – Cardiology Clinic	Canteen	Audiology and Speech Pathology	Ambulatory Care (Exam / Treatment Modules)	Acquisition and Materiel Management Service	
Acquisition and Materiel Management Services			2					3								3													-
Ambulatory Care	3	3	3	1	2	4	3	2	3	1			1		1	1				3			3	4	2	2	2	-	
Audiology and Speech Pathology				X		3		2	3	X	3	3			X			X		X			3			X	-		
Canteen	3	X		X			2			X	4	3														-			
Cardiovascular Laboratories - Cardiology Clinic	3	3	3		3	2	4											2		4			3	-					
Clinic Management Suite		4			4	3			4		4		4		3									-					
Dental Service			3				4			4		3					4	4					-						
Education Facilities												3												-					
EEG Laboratory	4	3	4			4					4													-					
Endoscopy Suite		2	2																					-					
Engineering Service		X	3		3	2		3																-					
Environmental Management Service			3		3			3					3																
Eye Clinic			3		2		3				2																		
Lobby	3	X		2			1	1		2		4																	
Lockers, Toilets and Showers																													
Medical Administration Service					2		2	2		2	3																		
Outpatient Psychiatric Clinics								3																					
Pathology and Laboratory Medicine	3				X																								
Pharmacy Service	3	3	3		2		3	2																					
Physical Medicine and Rehabilitation Service							2																						
Police and Security Service		3	3																										
Prosthetic and Sensory Aids Service			X																										
Pulmonary Medicine		4	4		3																								
Radiology Service		3																											
Service Organizations		2																											
Supply, Processing, and Distribution			1																										
Surgery Service																													
Volunteer Service																													

Code Proximity Relationship

1 Very Strong: Adjacent

2 Strong: Close, same floor

3 Moderate: Convenient, different floor acceptable

4 Weak: May be separated, limited traffic or communication necessary

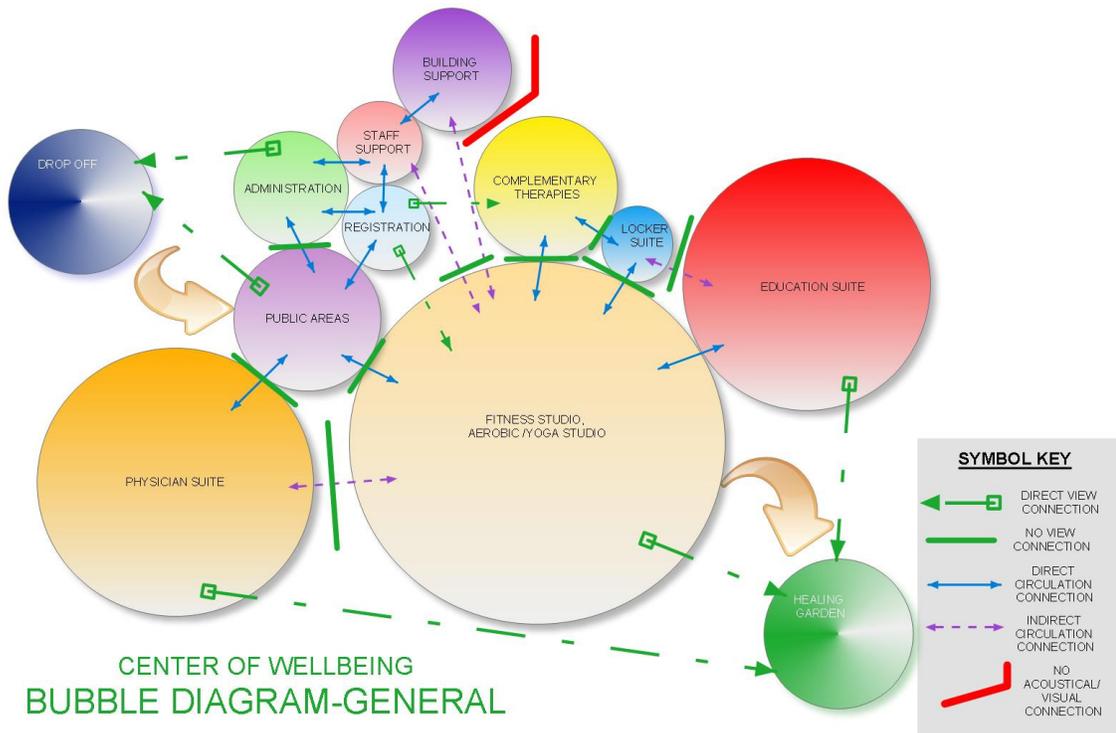
X Separation required or desirable

**Step 2:**

**BUBBLE DIAGRAM**

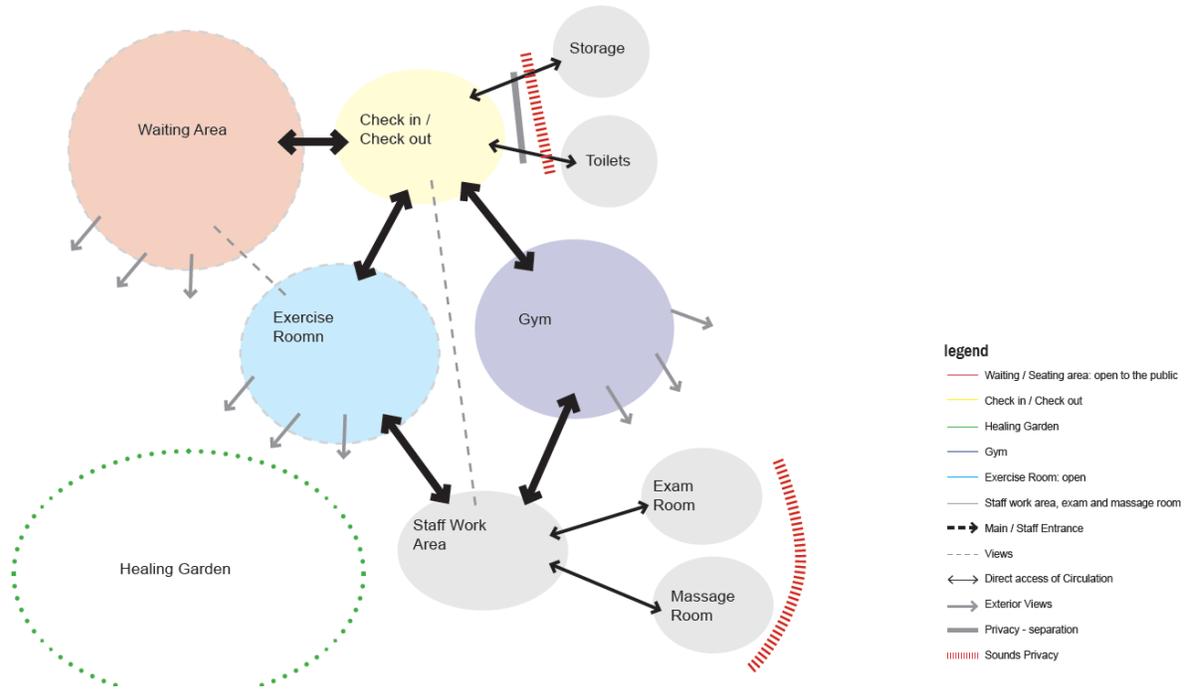
Based on the information gathered so far, develop a bubble diagram that will contribute to the space relationships for your project. Show all work and thought processes graphically and with notes as hand sketches. Be creative with graphic technique using color, texture, etc. to represent ideas. Remember to consider any important exterior views and site orientation of the building in the sketches. Bubble size should relate to program element sizes. INCIDATE CIRCULATION ROUTES and ENTRANCES.

**Bubble Diagram #1:** Develop a bubble diagram of the program DEPARTMENTS indicating the optimal adjacencies, features, building elements, etc. Include a key to clarify representations of proximity. This can be done by hand on graph paper, or digitally.



**BUBBLE DIAGRAM**

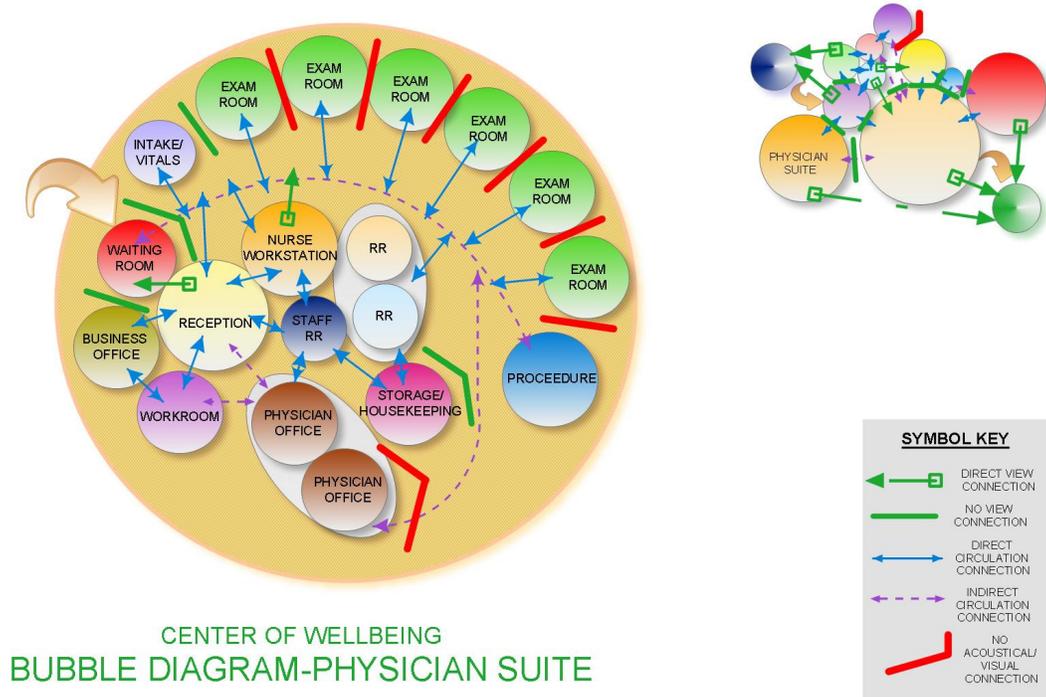
Detail department: Wellness Center



**Bubble Diagram #2:** Develop a Bubble Diagram of the INFUSION DEPARTMENT indicating the optimal adjacencies, features, building elements, etc. Include a key to clarify representations of proximity. This can be done by hand on graph paper, or digitally.

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### Step 3: BLOCKING DIAGRAMS

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**Develop a minimum of 3 Blocking Diagrams, each in different locations in the building.**

Blocking Diagrams show the planning relationships between spaces much like bubble diagrams do. Blocking diagrams are to scale, however. Work over the base plan provided in minimum 1/8" = 1'-0".

It is **CRITICAL** to include major circulation between departments and indicate building and departmental entrances and exits.

Provide a list of **advantages and disadvantages** for each location.

**Final Format:** Professional quality; digital format; free-hand sketch or computer generated

See examples below:

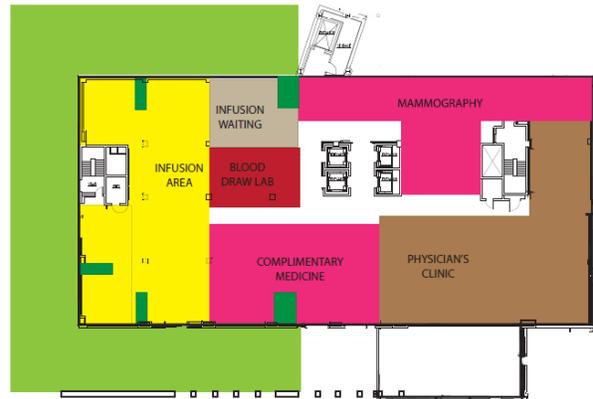


1st Floor Block Plan (Above)

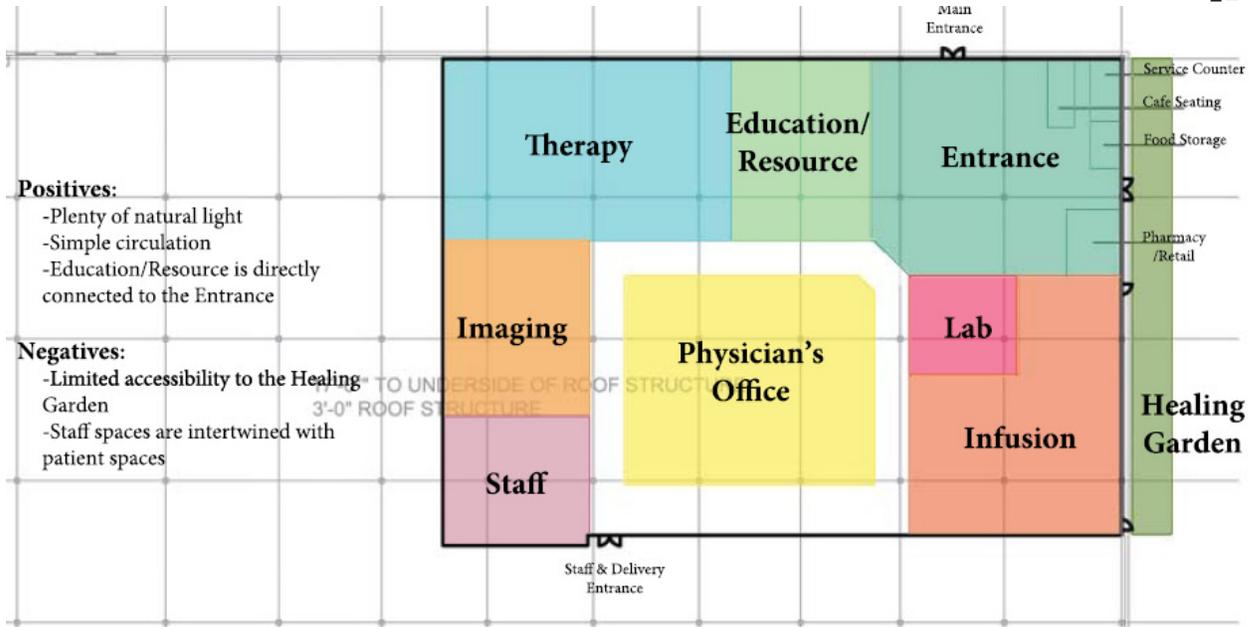
Cons:  
 Interior garden spaces too small  
 No reception/greeting at main entrance  
 Large unused space, but not large enough for tenant occupancy

Pros:  
 Exterior access to infusion area and complimentary medicine  
 Medical spaces all positioned together  
 Community spaces all on 1st floor with high traffic

2nd Floor Block Plan (Below)



Block Diagram: First Option



**Positives:**

- Plenty of natural light
- Simple circulation
- Education/Resource is directly connected to the Entrance

**Negatives:**

- Limited accessibility to the Healing Garden
- Staff spaces are intertwined with patient spaces

Other examples:

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Diagrams+Blocking Diagrams

