

**Case Study: Planning a Medical Procedure Unit**

Midwest Medical Center

**Workload Analysis****Current Workload****Projected Workload**

Category	Annual Visits	Minutes	Minutes/ Visit	Daily Visits	Annual Visits	Minutes	Daily Visits	Required Bays
IV Therapy	1,252	179,595	143	5	3,115	446,836	13	5.0
Blood Transfusion	772	253,865	329	3	772	253,865	3	2.8
Pain Clinic	697	25,280	36	3	697	25,280	3	0.3
Para/Thoracentesis	72	12,565	175	< 1	120	20,942	< 1	0.2
Liver Biopsy	58	18,110	312	< 1	90	28,102	< 1	0.3
Phlebotomy	131	4,325	33	< 1	210	6,933	< 1	0.1
Other Visits	310	28,390	92	1	500	45,790	2	0.5
Imaging Prep	1,920	153,250	80	8	2,485	198,347	10	2.2
Imaging Recovery	1,964	244,385	124	8	2,485	309,214	10	3.4
Endoscopy Recovery	1,610	86,790	54	6	2,055	110,779	8	1.2
Other Recovery	1,314	60,155	46	5	1,314	60,155	5	0.7
Total	10,100	1,066,710	106	42	13,843	1,506,242	57	16.7

Note: Required bays were based on projected annual minutes divided by 250 days/year divided by 360 minutes per day (75% occupancy based on 8-hour shift).

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**Detailed Space Program**

Room/Area	Unit	NSF	Total NSF	Comments
Reception/Check-In/Check-Out	2	60	120	Variable; one minimum
Work Area/Office Equipment	1	60	60	Fixed; fax, copier, printer, etc.
Waiting Area Seats	26	15	390	Variable
Wheelchair Alcove	1	10	10	Variable; one minimum
<b>Subtotal</b>			<b>580</b>	<b>Patient Intake Area</b>
Major Procedure Room	3	240	720	Scoping procedures; all use conscious sedation; some fluoroscopy
Minor Treatment/Exam Room	1	140	140	Optional; flexible multipurpose room
Scrub Station	4	10	40	One per each procedure room; could be located inside room
Patient Prep/Holding Bays	4	90	360	80 to 100 NSF; adjacent to major procedure rooms
Prep/Treatment/Recovery Bays	8	90	720	80 to 100 NSF
Private Treatment/Recovery Room	2	120	240	120 to 140 NSF typical
Patient Prep/Injection/Observation Bays	6	50	300	40 to 60 NSF typical for recliner chairs
Patient Lockers/Storage	25	3	75	Purse/tote bag lockers
Patient Toilet Room (Handicapped)	4	55	220	Central to recovery cubicles
Nurse Charting/Work Area	1	160	160	Charting station; centrally located
Clean Supply Room	1	120	120	Variable; 100 NSF minimum
Scope Cleaning/Holding Room	1	120	120	Variable; 100 NSF minimum
Soiled Holding Room	1	80	80	Variable; 80 NSF minimum
Linen Storage Alcove	1	20	20	Variable; one minimum
Medication Station	1	20	20	Variable; automated medication dispensing device
Nourishment Station Alcove	1	20	20	Fixed; sink, undercounter refrigerator, and ice machine
Pneumatic Tube Station	1	20	20	Optional
Portable Equipment Alcove	2	60	120	Variable; one minimum
Wheelchair/Stretcher Alcove	2	30	60	Variable; one minimum
Emergency Equipment Alcove	1	20	20	Located adjacent to prep/treatment/recovery bays
<b>Subtotal</b>			<b>3,575</b>	<b>Prep/Treatment/Recovery Area</b>
Private Office (Manager)	1	100	100	Fixed
Office/Cubicle (Nurse Specialist)	1	80	80	Optional
Physician Viewing/Reading Room	1	80	80	Variable
Tech Workstation	2	40	80	Variable
Staff Toilet	1	55	55	Fixed
<b>Subtotal</b>			<b>395</b>	<b>Administrative Support Space (Could Be Remote)</b>
<b>Total NSF</b>			<b>4,550</b>	<b>Net Square Feet (NSF)</b>
<i>NSF to DGSF Conversion Factor</i>			<b>1.50</b>	<i>Accommodates internal corridors and width of walls/columns/utility shafts</i>
<b>Total DGSF</b>			<b>6,800</b>	<b>Department Gross Square Feet (DGSF)</b>