

Exercise on Economic Evaluation of ProSPoNS Study

Online Workshop On Health Economics

September 15th, 2021

Components of health system cost??

- Which all costs should be included to estimate the health system cost per bed-day stay in Special Care New Born Unit (SCNU)?

Components of Health system cost

Components	Data subject
Human Resources	Paediatricians, general duty medical officers, Nurses etc.
Capital	Space/area covered by SCNU
Drugs & Consumables	Medicines, injections, cotton swabs etc.
Non-consumable items	Beds, chairs, furniture etc.
Medical equipments	Diagnostic and therapeutic items
Overhead utilities	Water, electricity, Laundry etc.

Additional data requirement for cost estimation??

- Enlist the data requirement under each component/domain for estimating the health system cost per bed-day stay in Special Care New Born Units (SCNUs)?

Components	Data subject	Additional data requirement
Human Resources	Paediatricians, general duty medical officers, Nurses etc.	?
Capital	Space/area covered by SCNBU	?
Drugs & Consumables	Medicines, injections, cotton swabs etc.	?
Non-consumable items	Beds, chairs, furniture etc.	?
Medical equipments	Diagnostic and therapeutic items	?
Overhead utilities	Water, electricity, Laundry etc.	?

Additional data requirement for cost estimation

Components	Data subject	Additional data requirement
Human Resources	Paediatricians, general duty medical officers, Nurses etc.	Proportional time spent, Salary slips, allowances, leaves
Capital	Space/area covered by SCNBU	Market price of area (per sq.ft.) or actual price of building & area
Drugs & Consumables	Medicines, injections, cotton swabs etc.	Quantity, prices
Non-consumable items	Beds, chairs, furniture etc.	Quantity, prices
Medical equipments	Diagnostic and therapeutic items	Quantity, prices
Overhead utilities	Water, electricity, Laundry etc.	Bills, Floor area

Sources of data??

Components	Data subject	Additional data requirement	Data source
Human Resources	Paediatricians, general duty medical officers, Nurses etc.	Proportional time spent, Salary, allowances, leaves	?
Capital	Space/area covered by SCNBU	Market rental price of area (per sq.ft.) or actual price of building & area	?
Drugs & Consumables	Medicines, injections, cotton swabs etc.	Quantity, prices	?
Non-consumable items	Beds, chairs, furniture etc.	Quantity, prices	?
Medical equipments	Diagnostic and therapeutic items	Quantity, prices	?
Overhead utilities	Water, electricity, Laundry etc.	Bills, Floor area	?

Sources of data

Components	Data subject	Additional data requirement	Data source
Human Resources	Paediatricians, general duty medical officers, Nurses etc.	Proportional time spent, Salary, allowances, leaves	Salary slips: Accounts department
Capital	Space/area covered by SCNBU	Market rental price of area (per sq.ft.) or actual price of building & area	Key informant interview
Drugs & Consumables	Medicines, injections, cotton swabs etc.	Quantity, prices	Stock registers, indent books etc
Non-consumable items	Beds, chairs, furniture etc.	Quantity, prices	Physical observation, stock registers
Medical equipments	Diagnostic and therapeutic items	Quantity, prices	Physical observation, stock registers
Overhead utilities	Water, electricity, Laundry etc.	Bills, Floor area	Account records, respective bills

Time allocation for Human resource cost estimation??

- Enlist the data requirement (salary and number of staff already known) for estimating the cost incurred on human resources appointed in in Special Care New Born Units (SCNUs)?

Human resource	Number	Data requirement
Peditarician	3	?
Duty Medical Officer	1	?
Staff Nurse	2	?
Health attendants	5	?
Sanitary attendants	4	?

Time allocation for Human resource cost estimation

- Enlist the data requirement (salary and number of staff already known) for estimating the cost incurred on human resources appointed in in Special Care New Born Units (SCNUs)?

Human resource	Number	Type of resource	Data requirement
Peditarician	3	Shared resource	Number of hours of duty in SCNU per day, number of days for which appointed in SCNU per year
Duty Medical Officer	1	Shared resource	Number of hours of duty in SCNU per day, number of days for which appointed in SCNU per year
Staff Nurse	2	Dedicated staff	Number of hours of duty per day in SCNU, Number of working days of SCNU per year
Health attendants	5	Dedicated Staff	Number of hours of duty per day in SCNU, Number of working days of SCNU per year
Sanitary attendants	4	Dedicated Staff	Number of hours of duty per day in SCNU, Number of working days of SCNU

Time allocation for Human resource cost estimation

Human resource	Number	Type of resource	Data requirement	What information have we missed??
Staff Nurse	2	Dedicated staff	Number of hours of duty per day in SCNU, Number of working days of SCNU per year	?
Health attendants	5	Dedicated Staff	Number of hours of duty per day in SCNU, Number of working days of SCNU per year	?
Sanitary attendants	4	Dedicated Staff	Number of hours of duty per day in SCNU, Number of working days of SCNU	?

Time allocation for Human resource cost estimation

Human resource	Number	Type of resource	Data requirement	What information have we missed??
Staff Nurse	2	Dedicated staff	Number of hours of duty per day in SCNU, Number of working days of SCNU per year	Number of days of absence from work
Health attendants	5	Dedicated Staff	Number of hours of duty per day in SCNU, Number of working days of SCNU per year	Number of days of absence from work
Sanitary attendants	4	Dedicated Staff	Number of hours of duty per day in SCNU, Number of working days of SCNU	Number of days of absence from work

Thanks!!

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