

# Clinical Care System for New Patient

Clinical Care Workflow for a new patient

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# ALGORITHM:

1. Check if you have money and then check if there's a doctor/nurse available.
2. If you have no money or no doctors/nurses available, go out of the clinic and return home. Else, go to the waiting area and wait to be called.
3. Since you're new, the nurse will give you a registration/application form and ask for your purpose of visiting the clinic.
4. The nurse will measure your vitals.
5. While measuring your vitals, input your name, age, address, contact number, weight, height, and other details indicated in the form.
6. If measuring is done and you're done inputting the correct details in the application form, give the form to the nurse. Else, wait for the nurse to finish measuring or complete the application form.
7. The nurse will save your records in their database system for future reference.
8. The nurse will point/guide you to the doctor's office.
9. Go inside the doctor's office after the vital measurements and voice out your concerns to the doctor.
10. The doctor asks you some preliminary health history questions.

11. The doctor will do an overall checkup on you.
12. The doctor determines if you have an illness.
13. If you have an illness, the doctor will determine how severe it is. Else, go to step 15.
14. If your illness is severe, the doctor will refer you to a specialist and you will be written a specialist referral form and a medicine prescription. Else, since you have a mild illness, you will only be written a medicine prescription.
15. Pay the doctor the corresponding consultation fee.
16. Check your remaining money.
17. If you were given a prescription, check if your clinic has a pharmacy inside, if yes, ask for the price. If not, go out of the clinic and find another pharmacy then ask for the price. Else, go out of the clinic and go to step 20.
18. If the price of the medicine in the pharmacy does cover your remaining money, buy the medicine in that pharmacy, go out of the clinic, and go to step 20. Else, look for another pharmacy.
19. If you're tired of looking for a pharmacy, go to step 20. Else, go to step 18.
20. Return Home.

# PSEUDOCODES

BEGIN

    FLOAT money, remaining\_money, height, weight, consultation\_fee, medicine\_cost

    INTEGER age, bp\_systolic, bp\_diastolic

    STRING name, address, contact\_number

    IF (money > 0) AND (staff == available) THEN

        GOTO waiting\_area

        WHILE not called by nurse

        DO

            Wait to be called

        ENDWHILE

    INPUT DOCUMENT registration\_form

    WHILE (nurse measures your vitals && you sign the registration form)

    DO

        Nurse : INPUT height, weight, blood\_pressure, comorbidities

        Patient: INPUT name, age, address, contact\_number

    ENDWHILE

    Give form to the nurse

    OUTPUT Medical\_Records, Registration\_Form

    STORE Medical\_Records, Registration\_Form TO DATABASE

```
POINT Doctor's Office  
GOTO Doctor's Office  
SPEAK concerns to Doctor  
CHECK UP overall  
DETERMINE illness
```

```
IF illness == TRUE THEN  
    DETERMINE severity  
    IF severity == severe THEN  
        WRITE DOCUMENT Lab_referral_form  
        WRITE DOCUMENT Medicine_prescription  
    ELSE  
        WRITE DOCUMENT Medicine_prescription  
    ENDIF  
ENDIF
```

```
OUTPUT consultation_fee  
remaining_money = money - consultation_fee  
money = remaining_money
```

```
CHECK money
```

```
IF Medicine_prescription == TRUE THEN
    IF clinic_has_pharmacy == TRUE THEN
        ASK medicine_cost
        OUTPUT medicine_cost
        remaining_money = money - medicine_cost
        money = remaining_money

        IF money > 0 THEN
            BUY medicine
        ELSE
            WHILE tired == FALSE
            DO
                FIND another pharmacy
            ENDWHILE
        ENDIF
    ENDIF
    GO OUT OF CLINIC
ENDIF
RETURN Home
END
```

# FLOWCHARTS



