

1 SELECTION of Opportunities For Improvement

Verification of Problem

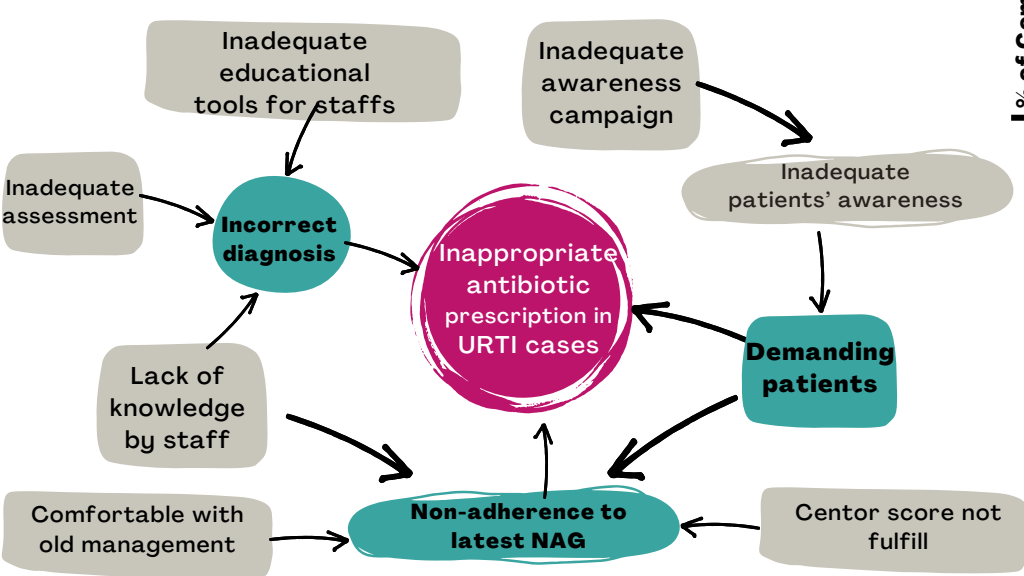
1. Inappropriate antibiotic prescription
 A 1 day sampling on 1/10/19 revealed only 2 out of 17 prescriptions (11.76%) with antibiotic were appropriate

2. Low usage of modern dressing
3. Long waiting time for consultation
4. Polypharmacy prescription
5. High defaulter rate among NCD patients

Justification / Reason of Choosing This Topic

- SERIOUSNESS**
Inappropriate antibiotic use can lead to antibiotic resistance and unnecessary drug related side effect and eventually increase the healthcare cost
- MEASUREABLE**
Data can be easily obtained from patient's treatment card at Fever Centre
- APPROPRIATE**
This study can improve the quality of patients' care in URTI cases
- REMIABLE**
Intervention taken can improve appropriateness of antibiotic prescription among the prescribers
- TIMELINESS**
This study can be carried out within 1 year

Possible Causes of Inappropriate Antibiotic Prescription In URTI



2 KEY MEASURE of Improvement

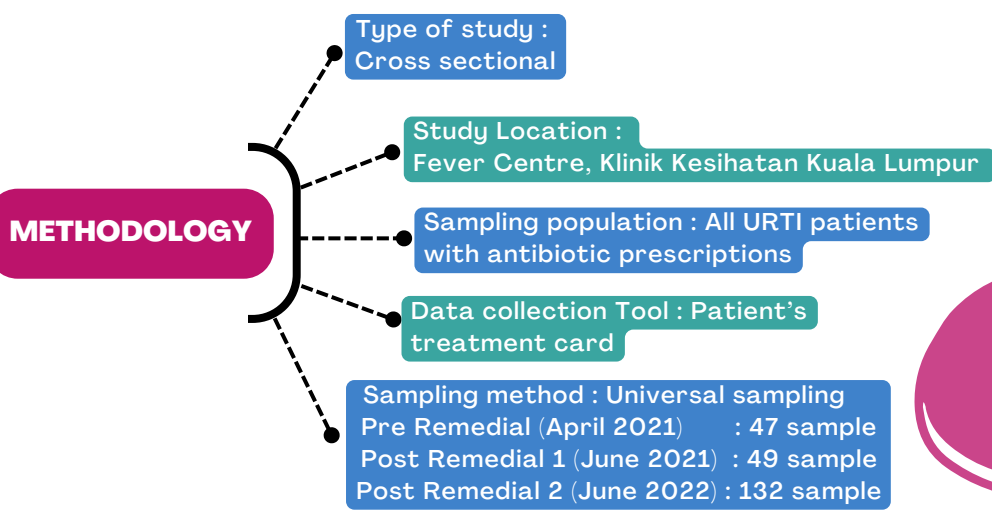
Standard
80% of URTI cases given antibiotic have appropriate indication

Indicator
 % of appropriate antibiotic prescription in URTI cases

Formula

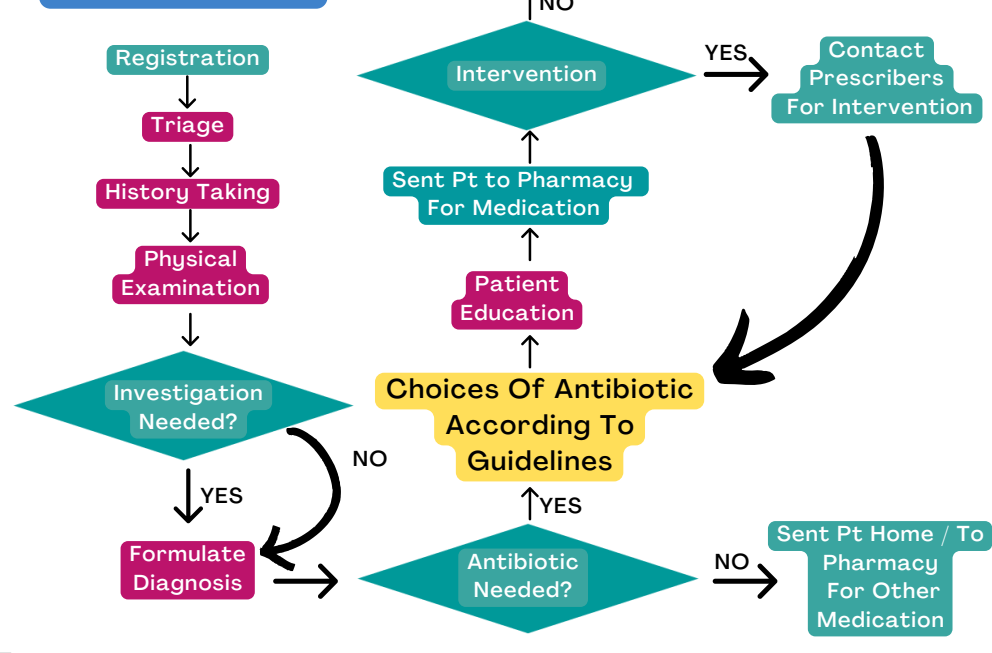
$$\frac{\text{No of appropriate antibiotic prescription in URTI cases}}{\text{All URTI cases with antibiotic prescription}} \times 100\%$$

3 PROCESS of Gathering Information



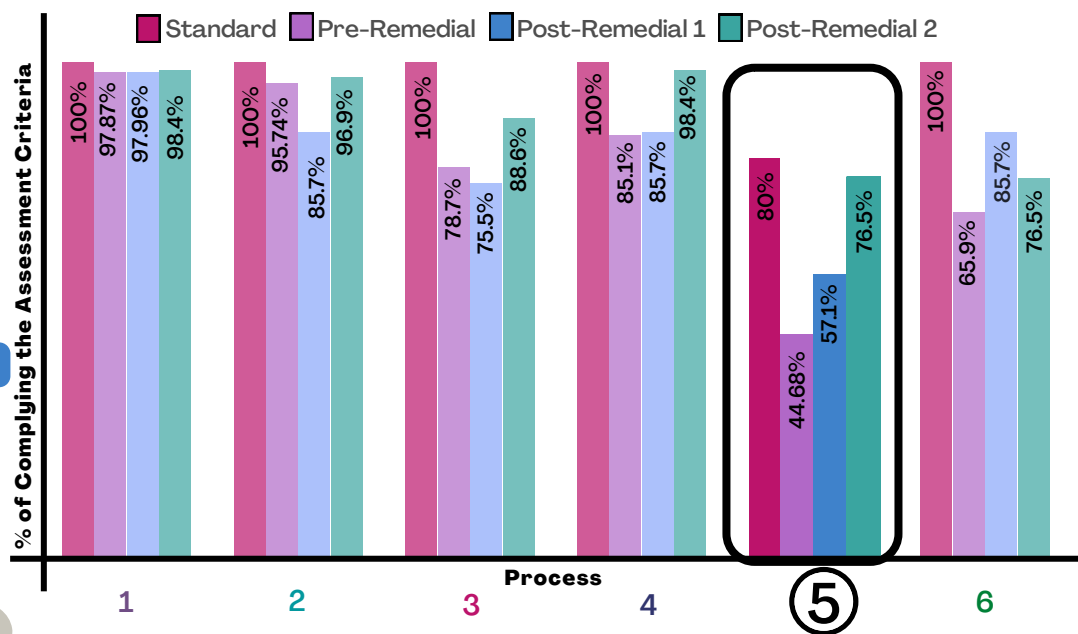
Reference
 1. World Health Organization. Antimicrobial resistance: global report on surveillance. France: World Health Organization; 2014.
 2. Wise R, Hart T, Cars O, Streulens M, Helmuth R, Huovinen P, Sprenger M. Antimicrobial resistance: is a major threat to public health. BMJ (Br Med J). 1998;317(7159):809.
 3. Balcioglu H et al. Algorithmic approach to upper respiratory tract infections in primary care. Biomedical Research 2017; 28 (17): 7546-7551
 4. Gill JM et al. Use of antibiotics for adult upper respiratory infections in outpatient settings: a national ambulatory network study. Fam Med 2006; 38: 349-354.

Process Of Care

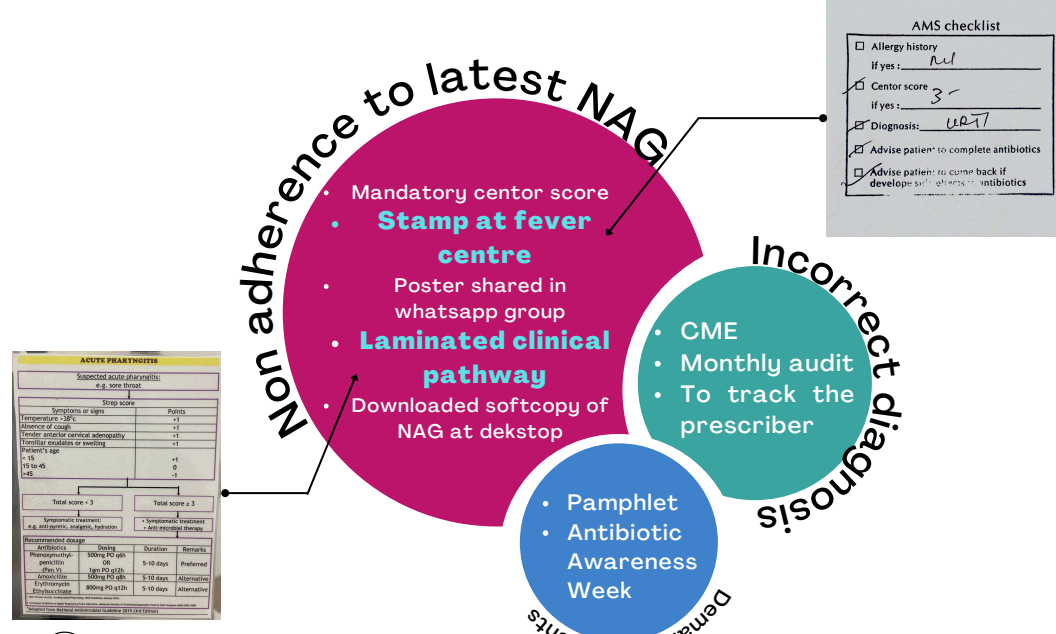


4 ANALYSIS and INTERPRETATION

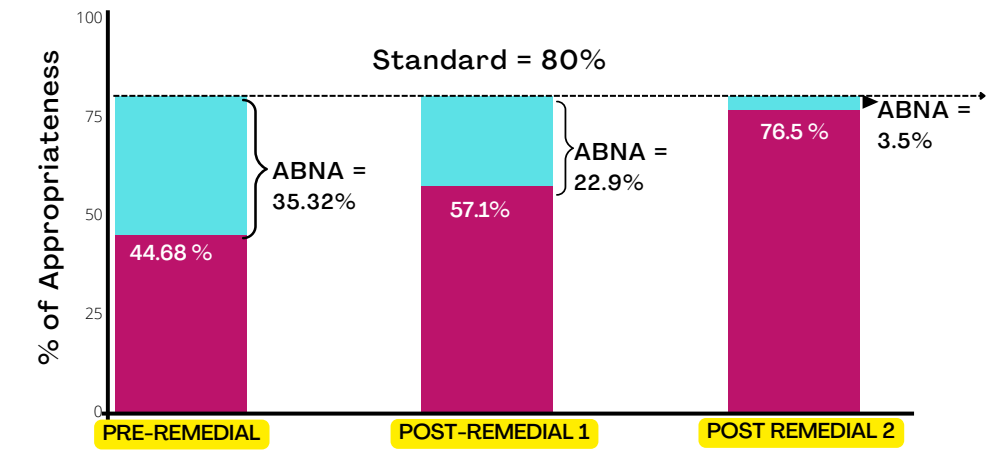
Process	Assessment Criteria
1.Triage	Temperature
2.History taking	Age, Fever, Cough
3.Physical Examination	Tonsil swelling / exudate, tender anterior adenopathy
4.Formulate diagnosis	Accurate diagnosis according to ICD 10
5.Choice, dose, time, duration, and route of administration of antibiotic according to guidelines	Appropriate antibiotic prescribed according to NAG/Clinical Pathway
6.Patient Education	All patients are given explanation regarding disease and treatment given



5 STRATEGIES for Change



6 EFFECT of Change



7 The NEXT STEP

- NEW STAFFS**
- To scan the QR code for video viewing followed by answering questionnaire in google forms
- TRACK THE PRESCRIBER**
- With the most frequent inappropriate antibiotic prescription in URTI
- TPC OHCS**
- Compulsory for prescriber to fill in center score when URTI is the diagnosis
- ENROLLMENT TO ALL KK**

