

Antibiotic Usage and Resistance: b DQG VWUDWHJLHV WR PLWLJDWH WKLV XUJHQ



Keywords: An ibi ic; Re l i ri ed medicine; Bac e ial infec i n; An ibi ic- e i an bac e ia; P blic heal h challenge; An ibi ic e i ance; Mechani m; Ine ec i e ea men; Pe i en infec i n; Inc ea ed m ali

Introduction

An ibi ic ha e redeniable and f med medicine, ma king a i al ad ancement in c mbating bace ial infectine and edicing malicate a ld ide. e e medicatine, ince hei dice ha e la dedaccial le interesing infectine has e ence fa al. Hee, hei e e and mi e ha e ecitated a fimidable adea a ratibitic e i ance. i hen mente eme ge her bace ia ada and de el defente again antibitic, e ding hed generale ecitere. e mi e familitic, cha e cibing hem fital illne e noc meleing e cibed ce, fectoria in he e bace ia care it e and mate, become e i an [1].

Cre en la infecir ca ed ba e i an baceia a e ha de ea, nece i a ing me en al era i e an ibi ic, hich made be clie and me ic. Me e, an ibi ic-ei an infecir la lagh, incea e heal hoa e chandele a e malia a e. Add e inganibi ic ei ancedemand mlifaceed a egie enc ma inganibi ic ei ancedemand mlifaceed a egie enc ma inganibi ic einheal hoa e, ingen eg la i ninagic le, enhanced eillance, and ained e each in ne an ibi ic and ea men a ache. egl balchallenge fan ibi ic ei ance nece i a e croceed e acheal hoa e e e e m, ag ic la la acice, and in e na i nalcea in afeg a dhe e i al medicine fc en and fegenea in [2].

Factors contributing to antibiotic resistance

Over prescription and misuse in human medicine:

• Physician en ecibe anibi ic f i al infeci na again hich he ed ga eine eci e.

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he ead f e i ance gene [3].

Global travel and trade:

o em emer feleard gdac bde faciliae heaid ead fei ar baceia ldide.

Implications of antibiotic resistance

Increased morbidity and mortality:

Re i an infec i n lead l nge h i al a_{ij}^{N} , highe medical c , and inc ea ed m ali a_{ij}^{N} a e .

Economic burden:

e e crimic im ac if an ibi ic e i ance inclide inclea ed heal hoa e c in life incline and he need firm e e en i e and i calle na i e ea men [4].

reat to modern medicine:

e e caca f an ibi ic i c cial f ge ie, cance ea men, gan an lan, and he managemen f ch nic di ea e. Re i ance h ea en he e medical ad ancemen.

Strategies to combat antibiotic resistance

Stewardship programs:

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Regulation in agriculture:

o Enf cing ice eglain n he e f an ibi ic in lie ck and m ing alenaie acice ch a accinain and im ed h∰giene.

Global collaboration:

O S eng hering in e na i nalc e a i n add e an ibi ic e i ance h gh licie, f nding, and ha ed e ce.

Discussion

An ibi ic e e en a c re re f m den medicine, e l i ri ing he ea men f bac e ial infec i n and d a ically ed cing m bidi and m ali a e gl bally e e d g ha e been in men al in managing a ide a a f bac e ial illne e, anging f m c mm n infec i n life-h ea ening c rdi i n. H e e, he ide ead and en ina ia e e f an ibi ic ha ca all ed a c recening end: an ibi ic e i ance. An ibi ic e i ance cc hen bac e ia ada and de el mechani m i h and he e ec f an ibi ic in ended elimina e hem. i ada a i n can cc h gh gene ic m a i n ac i i i n f e i ance gene f m he bac e ia. e c n e ence a e f rd, ende ing rece e c i e an ibi ic ine ec i e again e i an ain. i n rely c m lica e ea men egimen b al l ng illne e, inc ea e heal hca e c , and e cala e m ali a e [6-8].

e mi e f ar ibi ic c r ib e igri car la he de el mer f e i arce. O e e c ibing ar ibi ic f i al infec i r , ing hem in inade a e d e , failing c m le e