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Frequency of risk factors in bacteria corneal ulcer

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The aim and objective of the study were to examine the risk factors which are responsible for causing corneal ulcers. Corneal ulcer may be defined as discontinuation in normal epithelial surface of cornea associated with necrosis of surrounding cornea tissue. It is a potentially blinding ocular condition of cornea which can cause several visual losses if not treated at early stage. It is caused by bacteria, viruses, fungi, protozoa and other parasites. But bacteria are the most common cause of cornea ulcer. A particular feature of bacterial corneal ulcer is its progression and corneal destruction which may be completed within 24 - 48 hours caused by virulent bacteria. It is obvious from the results (Table) that trauma with vegetative material was the most common risk factor (Figure 7). It is evident from the data that 18(25%) from rural population and 7(9.72%) from urban population showed trauma due to vegetative materials.

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Table: Frequency of risk factors in bacteria corneal ulcer

| S.No. | Risk factor | Rural population n (%) | Urban population n (%) | Total n (%) |
|-------|-------------------------|------------------------|------------------------|-------------|
| 1. | Vegetative trauma | 18 (25) | 7 (9.72) | 25 (34.72) |
| 2. | Non-vegetative trauma | 7(9.72) | 9 (12.5) | 16 (22.22) |
| 3. | Foreign bodies | 5 (6.94) | 3 (4.16) | 8 (11.11) |
| 4. | Contact lenses | 5(6.94) | 3(4.16) | 8 (11.11) |
| 5. | Keratopathy | 2 (2.77) | 1 (1.38) | 3 (4.16) |
| 6. | Blepharitis | 2 (2.77) | 1 (1.38) | 3 (4.16) |
| 7. | Ocular surface disorder | 1 (1.38) | 2 (2.77) | 3 (4.16) |
| 8. | Ocular surgery | 2 (2.77) | 1 (1.38) | 3 (4.16) |
| 9. | Nil | 2(2.77) | 1 (1.38) | 3 (4.16) |
| | Total | 44 | 28 | 72 (100) |

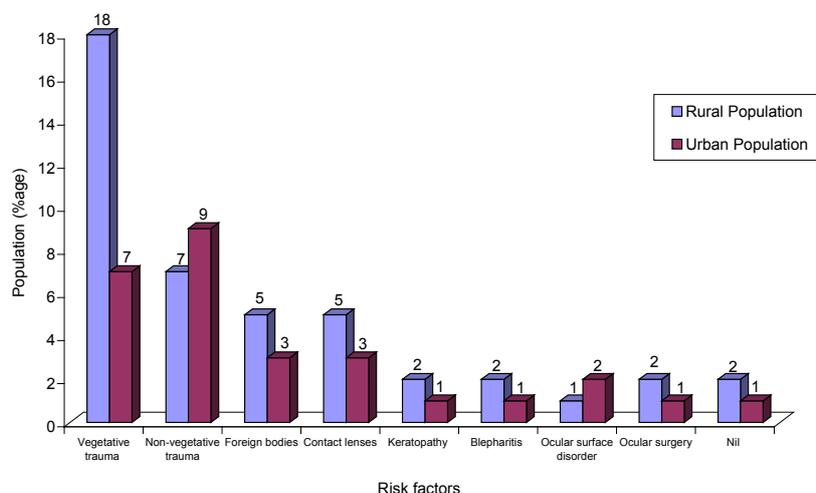


Figure 7 Frequency of risk factors and percentage of corneal ulcer