Cost analysis of treating a corneal ulcer

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Introduction

• WJ, 64 years old
• Farmer
• Central Province, Kenya
• Injury to left eye for 8 days
• harvesting bananas – fell on his face
• No diabetes mellitus or other chronic disease
Day 0-1

• Local district hospital
• Sh.200 transportation (boda boda)
• Sh.200 hospital
• Sh.200 boda boda looking for medicines
• Sh. 500 medicines (2hourly Dexasine)
• Sh. 500 accomodation
• Sh. 100 transport back home (matatu)
• Day Total =Sh. 1700
Day 8-9

- Worse
- Goes to Nairobi
- Home - Murang’A Sh. 100
- Murang’a - Nairobi Sh. 250
- Nairobi - Lang’ata Sh. 50
- Lang’ata - UHMC Sh. 100
- Consultation Sh. 2000
- NO SCRAPPING DONE (NO MONEY)
- Meds (Exocin q4h 710sh, Atropine q8h, 240sh) Sh. 950
- UHMC- Lang’ata Sh. 100
- Nairobi – Murang’a Sh. 250
- Murang’a – Home Sh. 100
- Day Total = Sh. 3900
- Cummulative total = Sh. 5600

- VA OD 6/6 OS 6/18
- 2.6mm X 4.6mm
Day 15

• Home - Murang’a Sh. 100
• Murang’a - Nairobi Sh. 250
• Nairobi - Lang’ata Sh. 50
• Lang’ata - UHMC Sh. 100
• Consultation Sh. 0
• Meds (Exocin q8h) Sh710
• UHMC- Lang’ata Sh. 100
• Nairobi – Murang’a Sh. 250
• Murang’a – Home Sh. 100
• Day total =sh. 1660
• Cummulative total = sh. 7260

• VA OD 6/6 OS 6/9
• 1mm X 2mm
Day 22-23

• Home - Murang’ā Sh. 100
• Murang’ā - Nairobi Sh. 250
• Nairobi - Lang’ata Sh. 50
• Lang’ata - UHMC Sh. 100
• Consultation Sh. 0
• UHMC- Lang’ata Sh. 100
• Nairobi – Murang’ā Sh. 250
• Murang’ā – Home Sh. 100
• Day total = sh. 950
• Cummulative total = sh. 8210

• VA OD 6/6 OS 6/6
• No epithelial defect
Cost breakdown by day
Discussion

• Per capita income in the district =
• Lost income =
• Illness cost ?% of monthly income
• Insurance = 45% of total cost
Conclusion

- Corneal ulcers have potential to cause poverty
- Lack of laboratory diagnostic support is a big challenge
- Referral through the health system are not always efficient