

## CONTENTS

=====

|                                                                        |    |
|------------------------------------------------------------------------|----|
| - Introduction and aim of the work .....                               | I  |
| - Review of literature .....                                           | 4  |
| . Diabetes Mellitus .....                                              | 4  |
| . Vascular anatomy of the cochlea and endolympathic sac .....          | 22 |
| . The role of endolymphatic sac and basilar membrane vasculature ..... | 26 |
| . Diabetes Mellitus and inner ear                                      |    |
| A) Histopathological relationship .....                                | 30 |
| B) Pathophysiological relationship .....                               | 35 |
| . Sensorineural hearing loss in D. M. ....                             | 38 |
| - Materials and Methods .....                                          | 53 |
| - Results .....                                                        | 63 |
| - Discussion .....                                                     | 82 |
| - Summary and conclusions .....                                        | 91 |
| - Appendix .....                                                       | 93 |
| - References .....                                                     | 99 |
| - Arabic summary .....                                                 |    |