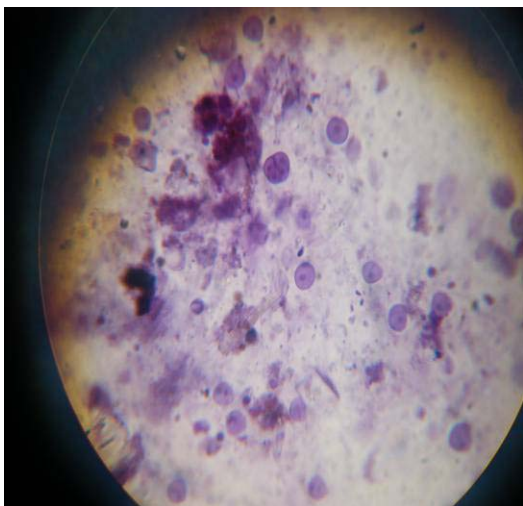


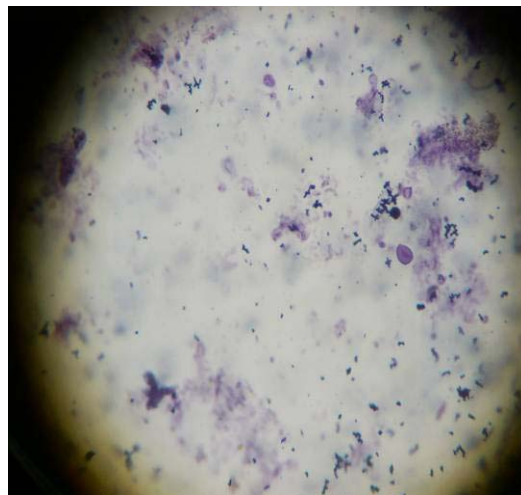
Mid guts of the dead larvae were dissected and teased. The tissue dehydrated in alcohol was stained and fixed in the DPX. The larvae surviving after exposure to sub-lethal concentration, were allowed to rear into adults under laboratory conditions. Mid gut of adult mosquitoes reared from larvae exposed to the sub-lethal concentration were dissected out and tissues have been subjected to microtomy for studying internal structure

Study of effect of sub-lethal doses of acetonitrile extract of latex on mid gut cells of larvae

- Cells of mid gut of larvae killed due to the effect of latex showed changes in the cellular structures.
- Cells of exposed tissue showed lysed membrane as well as rare presence of cells in the dividing phase.
- The initial observations reveal interesting finding for further detailed studies by Electron Microscopy.



Untreated larva



Treated larva

Figure 2. Photographs showing effect of sub-lethal doses of acetonitrile extract of latex on cells of exposed and un-exposed mid guts (100x10).

Study of effect of latex on the adult mosquitoes developed from the larvae exposed to sub-lethal doses

The larvae surviving after exposure to sub-lethal doses of acetonitrile extract of latex were reared into adult mosquitoes at room temperature. The mid gut of adult mosquitoes were dissected out and further processed for microtomy (Figure 3). Detailed structural study of untreated mosquitoes to compare with treated group is in progress.