

# RESULTS

Table (1): Clinical and laboratory findings in normal individuals.

| No. | Case No. | age | FBS. | PP. | ADD. | UTI. | Poli. | Bilob. | Band. | Zero | 15 | 30 |
|-----|----------|-----|------|-----|------|------|-------|--------|-------|------|----|----|
| 1   | 2        | 24  | 80   | 100 | -ve  | -ve  | 54    | 12     | 3     | 30   | 32 | 40 |
| 2   | 25       | 30  | 80   | 110 | -ve  | -ve  | 57    | 11     | 1     | 25   | 30 | 40 |
| 3   | 35       | 29  | 75   | 110 | -ve  | -ve  | 53    | 13     | 3     | 26   | 30 | 37 |
| 4   | 37       | 29  | 80   | 110 | -ve  | -ve  | 52    | 11     | 2     | 28   | 30 | 40 |
| 5   | 38       | 29  | 80   | 110 | -ve  | -ve  | 54    | 13     | 3     | 26   | 32 | 40 |
| 6   | 41       | 30  | 80   | 110 | -ve  | -ve  | 54    | 12     | 3     | 27   | 31 | 40 |
| 7   | 42       | 32  | 75   | 115 | -ve  | -ve  | 52    | 13     | 1     | 26   | 31 | 39 |
| 8   | 43       | 40  | 80   | 110 | -ve  | -ve  | 55    | 11     | 2     | 27   | 30 | 40 |
| 9   | 44       | 35  | 75   | 110 | -ve  | -ve  | 53    | 10     | 2     | 28   | 32 | 37 |
| 10  | 50       | 41  | 80   | 115 | -ve  | -ve  | 51    | 14     | 3     | 24   | 30 | 44 |

FBS = Fasting blood sug ar.  
 UTI = Urinary tract inf ection.  
 Band = Bandnucleated.  
 PP. = Post-prandial.  
 ADD. = Antidiabetic drugs.  
 Bilob.= Bilobated .

Table (II): Clinical and laboratory findings in normal individuals with UTI.

| No. | Case No. | age | FBS | PP. | ADD. | UTI. | Pol. | Bllob. | Band. | Zero | 15 | 30 |
|-----|----------|-----|-----|-----|------|------|------|--------|-------|------|----|----|
| 1   | 26       | 70  | 70  | 110 | -ve  | +ve  | 50   | 8      | 2     | 30   | 35 | 42 |
| 2   | 27       | 27  | 80  | 120 | -ve  | +ve  | 54   | 7      | 3     | 31   | 35 | 41 |
| 3   | 28       | 55  | 75  | 110 | -ve  | +ve  | 48   | 9      | 2     | 30   | 36 | 42 |
| 4   | 29       | 64  | 80  | 110 | -ve  | +ve  | 52   | 6      | 1     | 30   | 37 | 43 |
| 5   | 30       | 34  | 80  | 110 | -ve  | +ve  | 54   | 8      | 2     | 28   | 35 | 40 |
| 6   | 45       | 68  | 75  | 110 | -ve  | +ve  | 52   | 8      | 2     | 30   | 35 | 42 |
| 7   | 46       | 50  | 80  | 110 | -ve  | +ve  | 51   | 7      | 2     | 30   | 34 | 42 |
| 8   | 47       | 28  | 80  | 115 | -ve  | +ve  | 50   | 9      | 2     | 28   | 36 | 41 |
| 9   | 48       | 17  | 80  | 110 | -ve  | +ve  | 54   | 7      | 2     | 28   | 36 | 41 |
| 10  | 49       | 33  | 75  | 115 | -ve  | +ve  | 52   | 9      | 2     | 30   | 35 | 42 |

Table (III): Clinical and laboratory findings in controlled diabetics.

| No. | Case No. | age | FBS. | PP. | ADD.   | UTI. | Pol. | Bilob. | Band. | Zero | 15 | 30 |
|-----|----------|-----|------|-----|--------|------|------|--------|-------|------|----|----|
| 1   | 4        | 40  | 110  | 130 | oral   | +ve  | 48   | 10     | 5     | 17   | 18 | 19 |
| 2   | 8        | 40  | 110  | 125 | oral   | -ve  | 54   | 7      | 2     | 22   | 25 | 26 |
| 3   | 11       | 47  | 110  | 125 | oral   | +ve  | 48   | 8      | 6     | 22   | 23 | 25 |
| 4   | 12       | 35  | 140  | 155 | oral   | -ve  | 53   | 9      | 2     | 22   | 25 | 26 |
| 5   | 13       | 30  | 140  | 160 | oral   | -ve  | 50   | 8      | 2     | 22   | 23 | 25 |
| 6   | 14       | 56  | 125  | 135 | oral   | +ve  | 50   | 9      | 5     | 21   | 23 | 23 |
| 7   | 15       | 49  | 120  | 150 | oral   | +ve  | 53   | 9      | 2     | 22   | 24 | 26 |
| 8   | 16       | 22  | 120  | 125 | oral   | +ve  | 44   | 10     | 6     | 20   | 21 | 22 |
| 9   | 22       | 30  | 135  | 165 | oral   | -ve  | 49   | 8      | 3     | 23   | 24 | 26 |
| 10  | 23       | 47  | 115  | 130 | oral   | -ve  | 51   | 10     | 3     | 23   | 25 | 26 |
| 11  | 24       | 40  | 135  | 150 | oral   | -ve  | 52   | 8      | 2     | 22   | 25 | 26 |
| 12  | 32       | 24  | 120  | 135 | alter. | -ve  | 53   | 9      | 1     | 22   | 24 | 26 |
| 13  | 36       | 35  | 100  | 110 | alter. | +ve  | 50   | 9      | 4     | 21   | 22 | 25 |
| 14  | 39       | 51  | 140  | 165 | oral   | -ve  | 48   | 10     | 4     | 22   | 24 | 26 |
| 15  | 40       | 53  | 120  | 140 | oral   | +ve  | 45   | 12     | 5     | 21   | 23 | 25 |

Table (IV): Clinical and laboratory findings in uncontrolled diabetics.

| No. | Case No. | age | FBS. | PP. | ADD.    | UTI. | Poli. | Bilob. | Band. | Zero | 15 | 30 |
|-----|----------|-----|------|-----|---------|------|-------|--------|-------|------|----|----|
| 1   | 1        | 30  | 215  | 240 | insulin | +ve  | 53    | 10     | 5     | 18   | 19 | 20 |
| 2   | 3        | 40  | 150  | 170 | insulin | -ve  | 53    | 12     | 6     | 18   | 19 | 20 |
| 3   | 5        | 62  | 190  | 210 | oral    | +ve  | 51    | 9      | 7     | 18   | 20 | 21 |
| 4   | 6        | 13  | 220  | 240 | alter   | -ve  | 48    | 13     | 4     | 17   | 18 | 19 |
| 5   | 7        | 35  | 155  | 170 | oral    | +ve  | 46    | 11     | 5     | 18   | 19 | 20 |
| 6   | 9        | 20  | 315  | 340 | alter   | +ve  | 47    | 10     | 5     | 15   | 17 | 20 |
| 7   | 10       | 18  | 310  | 345 | alter   | +ve  | 45    | 9      | 6     | 16   | 18 | 19 |
| 8   | 17       | 42  | 200  | 210 | oral    | -ve  | 48    | 10     | 5     | 18   | 20 | 21 |
| 9   | 18       | 50  | 190  | 220 | oral    | +ve  | 50    | 11     | 6     | 18   | 19 | 21 |
| 10  | 19       | 21  | 315  | 348 | alter   | +ve  | 46    | 9      | 7     | 15   | 16 | 16 |
| 11  | 20       | 30  | 210  | 255 | alter   | +ve  | 48    | 11     | 4     | 17   | 18 | 20 |
| 12  | 21       | 20  | 300  | 340 | alter   | +ve  | 45    | 10     | 5     | 17   | 20 | 22 |
| 13  | 31       | 20  | 300  | 340 | insulin | +ve  | 50    | 12     | 4     | 16   | 17 | 19 |
| 14  | 33       | 28  | 190  | 205 | insulin | -ve  | 43    | 11     | 5     | 18   | 20 | 21 |
| 15  | 34       | 17  | 210  | 240 | insulin | -ve  | 50    | 10     | 4     | 17   | 18 | 20 |

Table (V): The differential leucocytic count in priphiral blood film for each group.

|                           | Poli. | Bilob. | Band. |
|---------------------------|-------|--------|-------|
| Normal                    | 54    | 12     | 2     |
| UTI.                      | 52    | 8      | 2     |
| Controlled<br>Diabetes.   | 50    | 9      | 3     |
| Uncontrolled<br>Diabetes. | 47    | 10     | 5     |

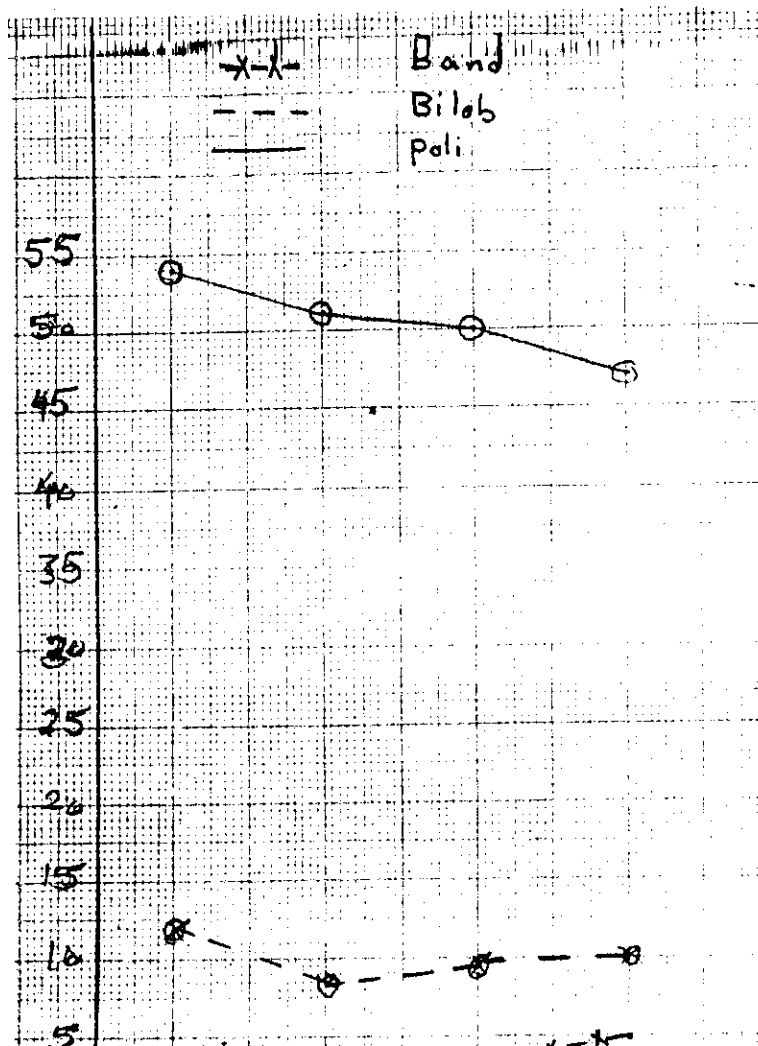


Table (VI): The phagocytic activity of PMN's incubated with latex particles for each group.

|                        | Zero | 15 min. | 30 min. |
|------------------------|------|---------|---------|
| Normal                 | 27   | 31      | 39      |
| UTI.                   | 30   | 35      | 42      |
| Controlled Diabetes    | 21   | 23      | 25      |
| Uncontrolled Diabetes. | 17   | 19      | 20      |

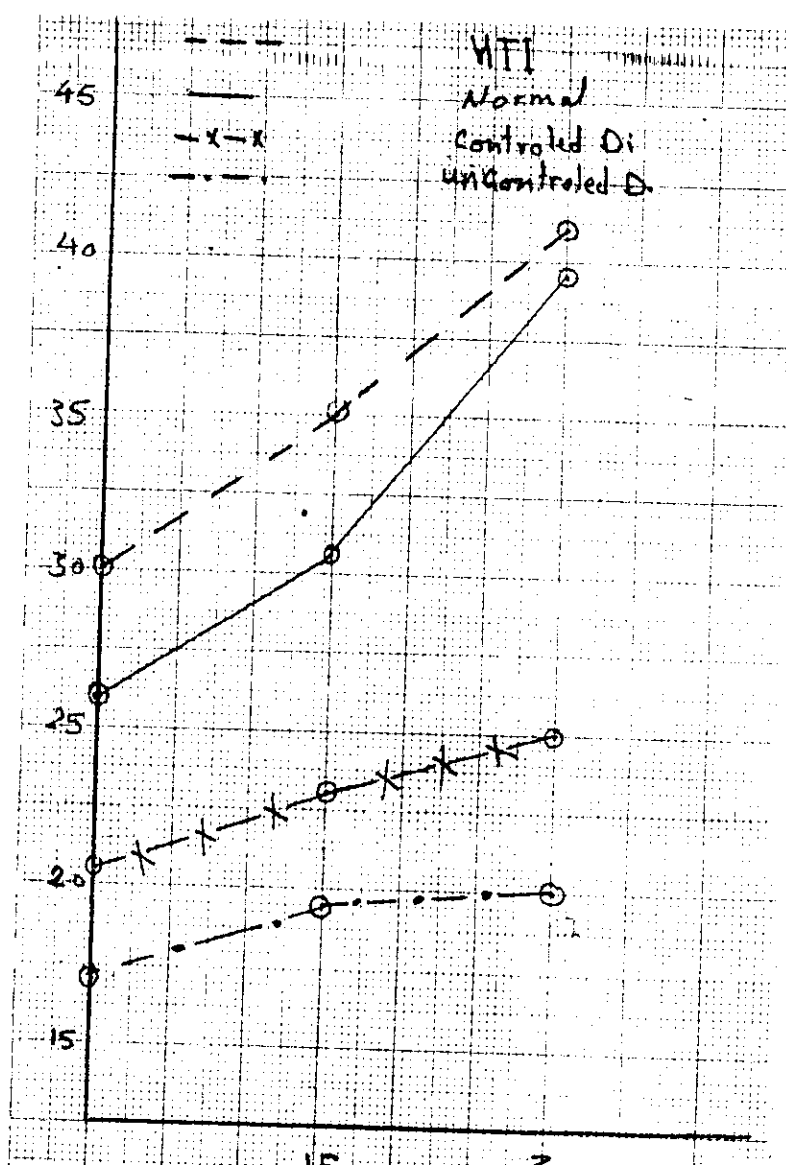


Table (VII): Phagocytic activity of PMN's incubated with latex particles for diabetic patients.

|                                                      | Zero | 15 min. | 30 min. |
|------------------------------------------------------|------|---------|---------|
| controlled diabetes without urinary tract infection. | 22   | 24      | 26      |
| Controlled diabetes with urinary tract infection.    | 20   | 22      | 23      |
| Uncontrolled without urinary tract infection.        | 18   | 19      | 20      |
| Uncontrolled with urinary tract infection.           | 16   | 18      | 19      |

The results of clinical and laboratory investigations of different groups of patients were illustrated in table I, II, III, and IV.

The differential leucocytic count of blood film table (V) revealed increase percentage of band neutrophils and decrease in polynucleated cells in diabetics, which were marked in uncontrolled diabetics specially with urinary tract infections.

The neutrophil phagocytic function as shown by latex particle (table VI) was impaired in diabetes and the impairment was marked in those had urinary tract infections.

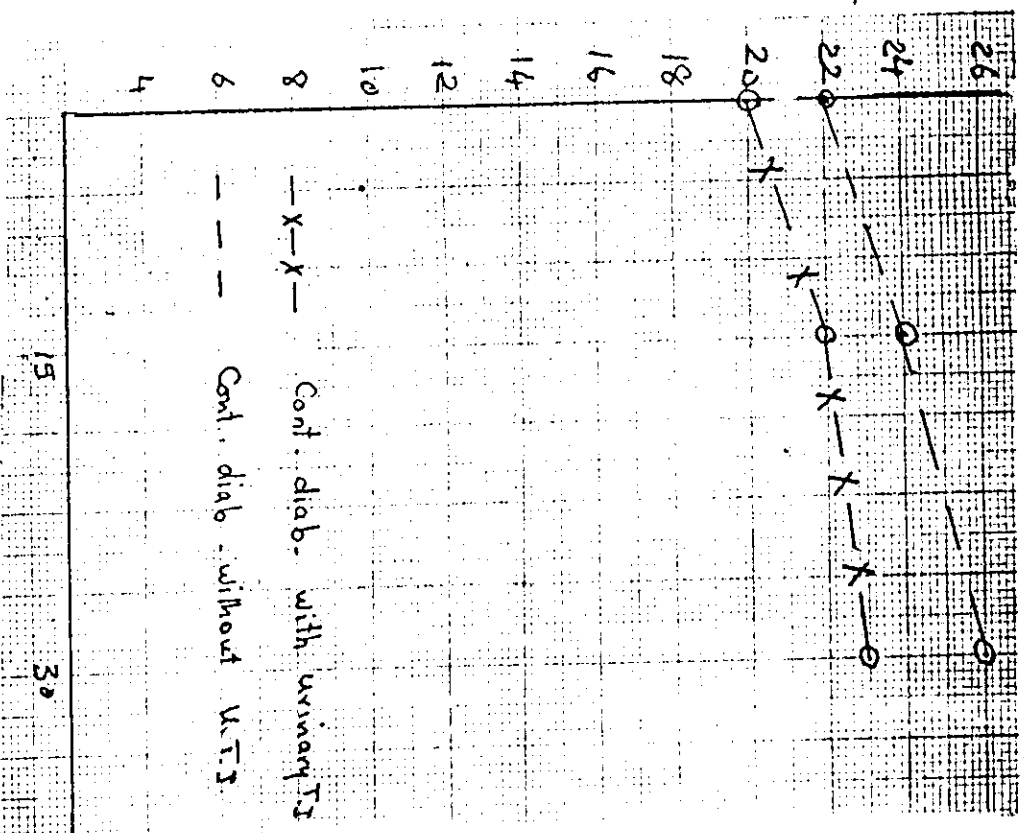
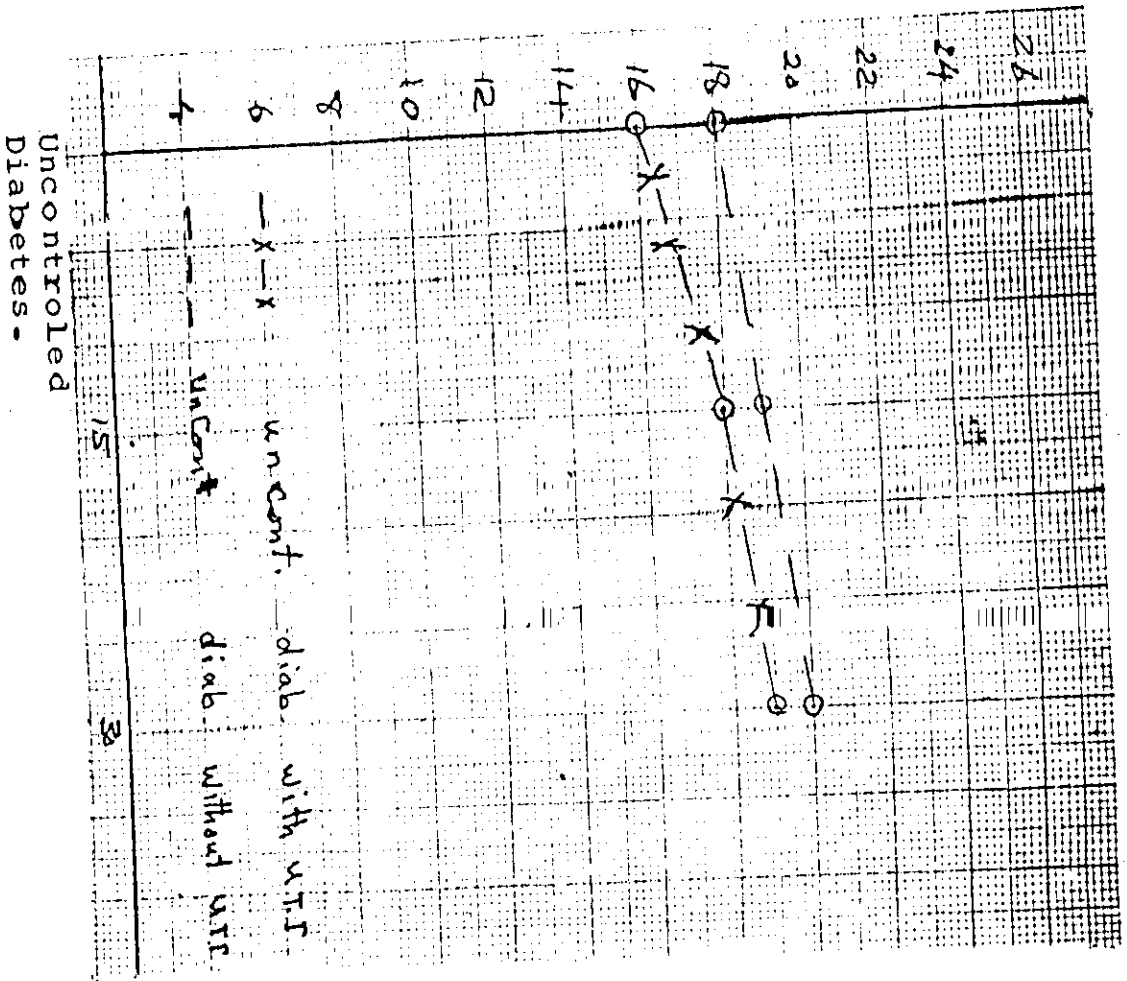
In controlled diabetes the PMN phagocytic function was significantly less than normal controls at Zero, 15 and 30 minutes and it was much impaired in presence of urinary tract infection.

In Uncontrolled diabetes the neutrophilic phagocytic

function was markedly less than normal controls at Zero, 15 minutes, at 30 minutes there was no change in phagocytic function compared with the function at 15 minutes.

The phagocytic function was highly impaired in uncontrolled diabetes with urinary tract infections at zero time and there was no significant changes in the function at 15 and 30 minutes compared with the function at zero time.

In urinary tract infections the phagocytic function was highly increased and this was marked at 30 minutes.



Phagocytic activity of PMN's incubated with latex particles for diabetic patients.