### Table S3: Detailed epidemiological data

| CASE | Diagnosis | SITE | SEX | OCCUPATION | HABIT | DURATION OF HABIT (years) | CLINICAL PRESENTATION | SIZE OF LESION | DURATION OF DISEASE | REGIONAL SPREAD | TNM SCORE | STAGE | TUMOUR GRADE | INTERVENTION | SAMPLE LABEL |
|------|------------|------|-----|------------|-------|--------------------------|-----------------------|---------------|-------------------|----------------|-----------|-------|--------------|-------------|--------------|
| 1    | SCC        | left | male | manual     | bidi   | 10                        | Ulcerative            | 2x2cm          | 1 year            | stage IV       | T4aN2bM0  | WDSCC | stage IV     | Surgery+methotrexate | DNA, RNA |
| 2    | SCC        | right | male | manual     | bidi   | 20                        | Ulcerative            | 2x2cm          | 2 months          | stage I        | T1N0M0    | WDSCC | stage I      | Surgery+methotrexate | DNA, RNA |
| 3    | SCC        | right | male | manual     | bidi   | 15                        | Ulcerative            | 2x2cm          | 9 months          | stage IV       | T4aN2bM0  | WDSCC | stage IV     | Surgery+methotrexate | DNA, RNA |
| 4    | SCC        | left  | male | manual     | bidi   | 10                        | Ulcerative            | 2x2cm          | 2 months          | stage I        | T1N0M0    | WDSCC | stage I      | Surgery+methotrexate | DNA, RNA |
| 5    | SCC        | right | male | manual     | bidi   | 16                        | Ulcerative            | 2x2cm          | 6 months          | stage IV       | T4aN2bM0  | WDSCC | stage IV     | Surgery+methotrexate | DNA, RNA |
| 6    | SCC        | right | male | manual     | bidi   | 14                        | Ulcerative            | 2x2cm          | 4 months          | stage IV       | T4aN2bM0  | WDSCC | stage IV     | Surgery+methotrexate | DNA, RNA |
| 7    | SCC        | left  | male | manual     | bidi   | 12                        | Ulcerative            | 2x2cm          | 9 months          | stage IV       | T4aN2bM0  | WDSCC | stage IV     | Surgery+methotrexate | DNA, RNA |
| 8    | SCC        | right | male | manual     | bidi   | 13                        | Ulcerative            | 2x2cm          | 2 months          | stage I        | T1N0M0    | WDSCC | stage I      | Surgery+methotrexate | DNA, RNA |
| 9    | SCC        | right | male | manual     | bidi   | 10                        | Ulcerative            | 2x2cm          | 2 months          | stage I        | T1N0M0    | WDSCC | stage I      | Surgery+methotrexate | DNA, RNA |
| 10   | SCC        | right | male | manual     | bidi   | 15                        | Ulcerative            | 2x2cm          | 9 months          | stage IV       | T4aN2bM0  | WDSCC | stage IV     | Surgery+methotrexate | DNA, RNA |
| 11   | SCC        | left  | male | manual     | bidi   | 10                        | Ulcerative            | 2x2cm          | 2 months          | stage I        | T1N0M0    | WDSCC | stage I      | Surgery+methotrexate | DNA, RNA |
| 12   | SCC        | right | male | manual     | bidi   | 13                        | Ulcerative            | 2x2cm          | 9 months          | stage IV       | T4aN2bM0  | WDSCC | stage IV     | Surgery+methotrexate | DNA, RNA |
| 13   | SCC        | left  | male | manual     | bidi   | 12                        | Ulcerative            | 2x2cm          | 2 months          | stage I        | T1N0M0    | WDSCC | stage I      | Surgery+methotrexate | DNA, RNA |
| 14   | SCC        | right | male | manual     | bidi   | 14                        | Ulcerative            | 2x2cm          | 6 months          | stage IV       | T4aN2bM0  | WDSCC | stage IV     | Surgery+methotrexate | DNA, RNA |
| 15   | SCC        | left  | male | manual     | bidi   | 10                        | Ulcerative            | 2x2cm          | 4 months          | stage IV       | T4aN2bM0  | WDSCC | stage IV     | Surgery+methotrexate | DNA, RNA |
| 16   | SCC        | right | male | manual     | bidi   | 13                        | Ulcerative            | 2x2cm          | 9 months          | stage IV       | T4aN2bM0  | WDSCC | stage IV     | Surgery+methotrexate | DNA, RNA |
| 17   | SCC        | right | male | manual     | bidi   | 14                        | Ulcerative            | 2x2cm          | 2 months          | stage I        | T1N0M0    | WDSCC | stage I      | Surgery+methotrexate | DNA, RNA |
| 18   | SCC        | left  | male | manual     | bidi   | 13                        | Ulcerative            | 2x2cm          | 2 months          | stage I        | T1N0M0    | WDSCC | stage I      | Surgery+methotrexate | DNA, RNA |
| 19   | SCC        | right | male | manual     | bidi   | 12                        | Ulcerative            | 2x2cm          | 9 months          | stage IV       | T4aN2bM0  | WDSCC | stage IV     | Surgery+methotrexate | DNA, RNA |
| 20   | SCC        | left  | male | manual     | bidi   | 10                        | Ulcerative            | 2x2cm          | 2 months          | stage I        | T1N0M0    | WDSCC | stage I      | Surgery+methotrexate | DNA, RNA |
| 21   | SCC        | right | male | manual     | bidi   | 13                        | Ulcerative            | 2x2cm          | 9 months          | stage IV       | T4aN2bM0  | WDSCC | stage IV     | Surgery+methotrexate | DNA, RNA |
| 22   | SCC        | left  | male | manual     | bidi   | 12                        | Ulcerative            | 2x2cm          | 2 months          | stage I        | T1N0M0    | WDSCC | stage I      | Surgery+methotrexate | DNA, RNA |
| 23   | SCC        | right | male | manual     | bidi   | 14                        | Ulcerative            | 2x2cm          | 6 months          | stage IV       | T4aN2bM0  | WDSCC | stage IV     | Surgery+methotrexate | DNA, RNA |
| 24   | SCC        | left  | male | manual     | bidi   | 10                        | Ulcerative            | 2x2cm          | 2 months          | stage I        | T1N0M0    | WDSCC | stage I      | Surgery+methotrexate | DNA, RNA |
| 25   | SCC        | right | male | manual     | bidi   | 13                        | Ulcerative            | 2x2cm          | 9 months          | stage IV       | T4aN2bM0  | WDSCC | stage IV     | Surgery+methotrexate | DNA, RNA |
| 26   | SCC        | left  | male | manual     | bidi   | 12                        | Ulcerative            | 2x2cm          | 2 months          | stage I        | T1N0M0    | WDSCC | stage I      | Surgery+methotrexate | DNA, RNA |
| 27   | SCC        | right | male | manual     | bidi   | 14                        | Ulcerative            | 2x2cm          | 6 months          | stage IV       | T4aN2bM0  | WDSCC | stage IV     | Surgery+methotrexate | DNA, RNA |
| 28   | SCC        | left  | male | manual     | bidi   | 10                        | Ulcerative            | 2x2cm          | 2 months          | stage I        | T1N0M0    | WDSCC | stage I      | Surgery+methotrexate | DNA, RNA |
| 29   | SCC        | right | male | manual     | bidi   | 13                        | Ulcerative            | 2x2cm          | 9 months          | stage IV       | T4aN2bM0  | WDSCC | stage IV     | Surgery+methotrexate | DNA, RNA |
| 30   | SCC        | left  | male | manual     | bidi   | 12                        | Ulcerative            | 2x2cm          | 2 months          | stage I        | T1N0M0    | WDSCC | stage I      | Surgery+methotrexate | DNA, RNA |
| 31   | SCC        | right | male | manual     | bidi   | 14                        | Ulcerative            | 2x2cm          | 6 months          | stage IV       | T4aN2bM0  | WDSCC | stage IV     | Surgery+methotrexate | DNA, RNA |
| 32   | SCC        | left  | male | manual     | bidi   | 10                        | Ulcerative            | 2x2cm          | 2 months          | stage I        | T1N0M0    | WDSCC | stage I      | Surgery+methotrexate | DNA, RNA |
| 33   | SCC        | right | male | manual     | bidi   | 13                        | Ulcerative            | 2x2cm          | 9 months          | stage IV       | T4aN2bM0  | WDSCC | stage IV     | Surgery+methotrexate | DNA, RNA |
| 34   | SCC        | left  | male | manual     | bidi   | 12                        | Ulcerative            | 2x2cm          | 2 months          | stage I        | T1N0M0    | WDSCC | stage I      | Surgery+methotrexate | DNA, RNA |
| 35   | SCC        | right | male | manual     | bidi   | 14                        | Ulcerative            | 2x2cm          | 6 months          | stage IV       | T4aN2bM0  | WDSCC | stage IV     | Surgery+methotrexate | DNA, RNA |
| Patient | Age | Sex | Occupation | Drink | Tobacco | Habit | Site | Vocation | Size | Duration | Recurrence | Stage | Histology | Management |
|---------|-----|-----|------------|-------|----------|-------|------|----------|------|----------|------------|-------|-----------|------------|
| P1      | 50  | M   | Labour     | No    | No       | No    | Buccal mucosa | No       | 0.5x0.5cm | 0 months | T1N0M0 | SCC       | Operative  |
| P2      | 60  | M   | Farmer     | Yes   | No       | No    | Buccal mucosa | Yes      | 2x2cm    | 2 months | T2N1M0 | SCC       | Operative  |
| P3      | 70  | M   | Farmer     | Yes   | Yes      | Yes   | Buccal mucosa | Yes      | 2.5x2.5cm | 6 months | T2N2M0 | SCC       | Operative  |
| P4      | 40  | M   | Housewife  | Yes   | No       | No    | Buccal mucosa | Yes      | 0.5x1cm  | 2 months | T1N0Mx | SCC       | Operative  |
| P5      | 50  | M   | Farmer     | Yes   | No       | No    | Buccal mucosa | Yes      | 2x3cm    | 5 months | T1N0Mx | SCC       | Operative  |
| P6      | 45  | F   | Housewife  | Yes   | No       | No    | Buccal mucosa | Yes      | 0.5x1cm  | 2 months | T1N0Mx | SCC       | Operative  |
| P7      | 50  | M   | Farmer     | Yes   | Yes      | Yes   | Buccal mucosa | Yes      | 2x3cm    | 5 months | T1N0M0 | SCC       | Operative  |
| P8      | 60  | M   | Farmer     | Yes   | Yes      | Yes   | Buccal mucosa | Yes      | 2x3cm    | 5 months | T1N0M0 | SCC       | Operative  |
| P9      | 45  | M   | Farmer     | Yes   | Yes      | Yes   | Buccal mucosa | Yes      | 2x3cm    | 5 months | T1N0M0 | SCC       | Operative  |
| P10     | 50  | M   | Farmer     | Yes   | Yes      | Yes   | Buccal mucosa | Yes      | 2x3cm    | 5 months | T1N0M0 | SCC       | Operative  |

**Histology:**
- SCC (Squamous Cell Carcinoma)
- M (Melanoma)
- OSMF ( Oral Submucous Fibrosis)
- WDSCC (Well-Differentiated SCC)

**Management:**
- Operative
- Chemotherapy
- Metastasis

**Stage:**
- T1N0M0
- T2N1M0
- T2N2Mx
- T4a N2bMx

**Histological Types:**
- SCC
- OSMF
- WDSCC

**Site:**
- Buccal mucosa
- Tongue (lateral border)
- Mandible
- Gingivobuccal sulcus
- Buccal mucosa
- Tongue (lateral border)

**Habit:**
- No habit
- Mixed
- Panmasala
- Tobacco chewing

**Sex:**
- Male (M)
- Female (F)

**Occupation:**
- Farmer
- Housewife
- Businessman
- Labour

**Recurrence:**
- Absent
- Present
| No. | Age | Gender | Occupation        | Tobacco Usage |
|-----|------|--------|-------------------|--------------|
| 1   | 34   | M      | Farmer            | Non-smoker   |
| 2   | 29   | M      | Labour            | Non-smoker   |
| 3   | 37   | M      | Non-smoker        | Housewife    |
| 4   | 42   | M      | Non-smoker        | Housewife    |
| 5   | 51   | M      | Non-smoker        | Businessman  |
| 6   | 28   | M      | Non-smoker        | Cleaner      |
| 7   | 35   | M      | Non-smoker        | Carpenter    |
| 8   | 20   | M      | Non-smoker        | Labour       |
| 9   | 37   | M      | Non-smoker        | Carpenter    |
| 10  | 39   | M      | Non-smoker        | Labour       |
| 11  | 40   | M      | Non-smoker        | Labour       |
| 12  | 30   | M      | Non-smoker        | Labour       |
| 13  | 31   | M      | Non-smoker        | Labour       |
| 14  | 54   | M      | Non-smoker        | Farmer       |
| 15  | 30   | M      | Non-smoker        | Labour       |
| 16  | 34   | M      | Non-smoker        | Labour       |
| 17  | 39   | M      | Non-smoker        | Labour       |
| 18  | 54   | M      | Non-smoker        | Labour       |
| 19  | 42   | M      | Non-smoker        | Labour       |
| 20  | 59   | M      | Non-smoker        | Labour       |
| 21  | 38   | M      | Non-smoker        | Labour       |
| 22  | 39   | M      | Non-smoker        | Labour       |
| 23  | 29   | M      | Non-smoker        | Labour       |
| 24  | 42   | M      | Non-smoker        | Labour       |
| 25  | 53   | M      | Non-smoker        | Labour       |
| 26  | 36   | M      | Non-smoker        | Labour       |
| 27  | 40   | M      | Non-smoker        | Labour       |
| 28  | 25   | M      | Non-smoker        | Labour       |
| 29  | 50   | M      | Non-smoker        | Carpenter    |
| 30  | 40   | M      | Non-smoker        | Labour       |
| 31  | 43   | M      | Non-smoker        | Labour       |
| 32  | 53   | M      | Non-smoker        | Labour       |
| 33  | 36   | M      | Non-smoker        | Labour       |
| 34  | 41   | M      | Non-smoker        | Labour       |
| 35  | 29   | M      | Non-smoker        | Labour       |
| 36  | 41   | M      | Non-smoker+smoker | Labour       |
| 37  | 33   | M      | Non-smoker        | Clerk        |
| 38  | 39   | M      | Non-smoker        | Shopkeeper   |
| 39  | 31   | M      | Non-smoker        | Labour       |
| 40  | 35   | M      | Non-smoker        | Driver       |
| 41  | 32   | M      | Non-smoker        | Labour       |
| 42  | 30   | M      | Non-smoker        | Labour       |
| 43  | 32   | M      | Non-smoker        | Labour       |
| 44  | 34   | M      | Non-smoker        | Labour       |
| 45  | 31   | M      | Non-smoker        | Labour       |