APPENDIX –I

TYPICAL CASE REPORTS
REPORT FOR THE FOLLOWING CLIENT

Client : NANDINI.H.DAVE
Case No. : 401
Age : 21 Female
Address : 28, Bhavana Society
Geeta Mandir Road
Ahmedabad 380 022
Ph : 5390527

VOICE SAMPLE COLLECTED TOWARDS DATA BASE
No Voice or speech defect reported
No hearing loss reported.

F0 and Intensity Measurements using FOINT
Date: 09-21-1999 Time: 02:14:45

File : C:\PEARS\A0040101.DAT From 0 to 1000 msec

<table>
<thead>
<tr>
<th>F0 in (in Hz)</th>
<th>Intensity (in dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean</td>
<td>191.46</td>
</tr>
<tr>
<td>Maximum</td>
<td>194.11</td>
</tr>
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<td>Minimum</td>
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<td>Range</td>
<td>4.93</td>
</tr>
<tr>
<td>Fluctuations/sec</td>
<td>2.97</td>
</tr>
<tr>
<td>Extent of Fluctns.</td>
<td>3.40</td>
</tr>
<tr>
<td>Psigma</td>
<td>1.32</td>
</tr>
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</table>

Jitter & Shimmer Measurements using JITSHIM Program
Date: 09-21-1999 Time: 02:16:43

File : C:\PEARS\A0040101.SIX From 0 to 1000 msec

<table>
<thead>
<tr>
<th>DATA relating to F0 or T0</th>
<th>Amplitude</th>
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<tr>
<td>Mean F0 (Hz)</td>
<td>191.1544</td>
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<tr>
<td>Jitter in T0 (%)</td>
<td>0.5311</td>
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<tr>
<td>PVI</td>
<td>0.0438</td>
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<tr>
<td>DPQ (%)</td>
<td>70.8108</td>
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<tr>
<td>RAP [3 Point]</td>
<td>0.0087</td>
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<tr>
<td>DLT</td>
<td>0.0164</td>
</tr>
<tr>
<td>Jitter in F0 (%)</td>
<td>0.5301</td>
</tr>
<tr>
<td>Psigma</td>
<td>1.2668</td>
</tr>
</tbody>
</table>
REPORT FOR THE FOLLOWING CLIENT

Client : RAJ.S.MAJMUDAR
Case No. : 463
Age : 34 Male
Address : 158 Bhavana Apartment
          Vasna Barriage Road
          Ahmedabad
          Ph: 6613457

VOICE ANALYSIS

F0 and Intensity Measurements using POINT
Date: 06-08-2001 Time: 00:41:45

File : C:\PEARSSHC\A0046301.DAT From 0 to 1000 msec

F0 in (Hz)  Intensity (in dB)
Mean 109.38  49.18
Maximum 111.03  50.27
Minimum 107.84  48.19
Range 3.19  2.08
Fluctuations/sec 0.99  0.00
Extent of Fluctns. 3.15  0.00
Psigma 0.63

Jitter & Shimmer Measurements using JITSHIM Program
Date: 06-08-2001 Time: 00:42:33

File : C:\PEARSSHC\A0046301.SIX From 0 to 1000 msec

DATA relating to F0 or T0

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Amplitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean F0 (Hz)</td>
<td>109.0197</td>
<td>Mean A0 2309.3113</td>
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<tr>
<td>Jitter in T0 (%)</td>
<td>0.6067</td>
<td>Shimmer (dB) 0.3650</td>
</tr>
<tr>
<td>PVI</td>
<td>0.0438</td>
<td>AVI 0.7120</td>
</tr>
<tr>
<td>DPQ (%)</td>
<td>55.2381</td>
<td>DPQ (%) 62.8571</td>
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<tr>
<td>RAP [3 Point]</td>
<td>0.0132</td>
<td>AFQ 2.8018</td>
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<tr>
<td>RAP [5 Point]</td>
<td>0.0039</td>
<td></td>
</tr>
<tr>
<td>DLT</td>
<td>0.0491</td>
<td></td>
</tr>
<tr>
<td>Jitter in F0 (%)</td>
<td>0.6063</td>
<td></td>
</tr>
<tr>
<td>Psigma</td>
<td>0.7216</td>
<td></td>
</tr>
</tbody>
</table>
MEAN: 109.0
MODE: 109.0
MEDIAN: 109.0

From File Name: C:\PEARSSHC\A0046301.sjf
Client: RAJ.S.MAJMUDAR
Case No: 463
REPORT FOR THE FOLLOWING CLIENT

Client : Dhiren C. Trivedi
Case No. : 404
Age : 38 Male
Address : 1, second Floor
'Kahankrupa' shopping Complex
Opp Municipal School
Vasna
Ahmedabad 380 007
Ph : 6610599

VOICE ANALYSIS

F0 and Intensity Measurements using F0INT
Date: 09-25-1999 Time: 00:09:15
File : C:\PEARS\A0040401.DAT From 0 to 1000 msec

F0 in (in Hz) Intensity (in dB)
Mean 113.01 52.16
Maximum 115.11 52.62
Minimum 111.19 51.47
Range 3.91 1.15
Fluctuations/sec 0.00 0.00
Extent of Fluctns 0.00 0.00
Psigma 0.95

Jitter & Shimmer Measurements using JITSHIM Program
Date: 09-25-1999 Time: 00:09:41
File : C:\PEARS\A0040401.SIX From 0 to 1000 msec

DATA relating to F0 or T0 Amplitude

Mean F0 (Hz) 112.4721 Mean A0 2141.0093
Jitter in T0 (%) 0.4458 Shimmer (dB) 0.0743
PVI 0.0604 AVI -0.3783
DPQ (%) 48.1481 DPQ (%) 53.7037
RAP [3 Point] 0.0119 APQ 0.5215
RAP [5 Point] 0.0028
DLT 0.0292
Jitter in F0 (%) 0.4464
Psigma 0.8732
From File Name: C:\PEARS\A0040401.sjf
Client: DIHREN C.TRIVED
Case No: 404
REPORT FOR THE FOLLOWING CLIENT

Client Case No. Age Address

SMITA.P.SHAH 422 52 Female 18, Gitabaugh Society
Ellisbridge
Ahmedabad
Ph: 6587404

VOICE ANALYSIS

F0 and Intensity Measurements using FOINT
Date: 09-28-1999 Time: 02:39:43

File: C:\PEARS\A0042201.DAT From 0 to 1000 msec

F0 in (in Hz) Intensity (in dB)
Mean 200.43 57.40
Maximum 205.32 58.28
Minimum 196.73 56.82
Range 8.59 1.46
Fluctuations/sec 13.86 0.00
Extent of Fluctns. 4.21 0.00
Psigma 2.18

Jitter & Shimmer Measurements using JITSHIM Program
Date: 09-28-1999 Time: 02:40:12

File: C:\PEARS\A0042201.SIX From 0 to 1000 msec

DATA relating to F0 or T0 Amplitude
Mean F0 (Hz) 199.8596 Mean A0 5355.1226
Jitter in T0 (%) 0.9271 Shimmer (dB) 0.2495
PVI 0.1262 AVI 0.6254
DPQ (%) 72.3077 DPQ (%) 60.5128
RAP [3 Point] 0.0109 APQ 1.7374
RAP [5 Point] 0.0052
DLT 0.0300
Jitter in F0 (%) 0.9272
Psigma 2.2461
Mean: 199.9
Mode: 198.1
Median: 200.0
From File Name: C:\PEARSSHC\A0042201.sjf
Client: SMITA.P.SHAH
Case No: 422

Press Any Key
REPORT FOR THE FOLLOWING CLIENT

Client Name: ACHAL.BHAGAT
Case No.: 1696
Age: 22
Address: Swaminarayan mandir
          Shahibaugh
          Ahmedabad
          Ph: 5625151

Referred by: Dr MS Balge
ENT Findings: Telescopic Examination revealed vocal nodule.

Referral complaint: "Hoarse voice"
Problem is present since last one year
Started after SMR surgical intervention.
He opted himself to swaminarayan pant and
preders to be "swami". His assignment
demands excessive use of speech and voice.
HO of voice abuse.

VOICE ANALYSIS:
Glottogram derived by Inversed Filtered
signal reveals
1. Closure of the vocal folds fluctuates between
   adequate and inadequate closure,
2. Wave morphology reveals
   - painful closing process (platue is seen
     at initiation of closure to epoch)
   - fuzziness in the process of closing
     phase
3. Wave pattern is consistant.

Statistical findings reveals
- High pitched voice
- Adequate intensity
- Slightly high jitter score
- Relatively low HNR score

SUSPECTED VOCAL NODULE

Mallikarjun
Maximum Phonation Duration : 16.26 sec

FO and Intensity Measurements using FOINT
Date: 07-06-1999 Time: 23:26:28

File : C:\PEARS\A0169601.DAT From 0 to 1000 msec

<table>
<thead>
<tr>
<th>F0 in (in Hz)</th>
<th>Intensity (in dB)</th>
</tr>
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<tbody>
<tr>
<td>Mean</td>
<td>198.91</td>
</tr>
<tr>
<td>Maximum</td>
<td>205.13</td>
</tr>
<tr>
<td>Minimum</td>
<td>196.29</td>
</tr>
<tr>
<td>Range</td>
<td>8.84</td>
</tr>
<tr>
<td>Fluctuations/sec</td>
<td>13.86</td>
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<tr>
<td>Extent of Fluctns.</td>
<td>3.99</td>
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<tr>
<td>Psigma</td>
<td>1.80</td>
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</table>

Jitter & Shimmer Measurements using JITSHIM Program
Date: 07-06-1999 Time: 23:30:58

File : C:\PEARS\A0169601.SIX From 0 to 1000 msec

<table>
<thead>
<tr>
<th>DATA relating to F0 or T0</th>
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</thead>
<tbody>
<tr>
<td>Mean F0 (Hz)</td>
<td>200.1115</td>
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<td>Jitter in T0 (%)</td>
<td>8.2458</td>
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<tr>
<td>PVI</td>
<td>18.0503</td>
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<tr>
<td>DPQ (%)</td>
<td>70.3125</td>
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<tr>
<td>RAP [3 Point]</td>
<td>0.0580</td>
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<td>RAP [5 Point]</td>
<td>0.0507</td>
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<tr>
<td>DLT</td>
<td>0.3901</td>
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<tr>
<td>Jitter in F0 (%)</td>
<td>9.5148</td>
</tr>
<tr>
<td>Psigma</td>
<td>33.8902</td>
</tr>
</tbody>
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Harmonic/Noise Ratio measurements using HNR program
Date: 07-06-1999 Time: 23:32:24

File : C:\PEARS\A0169601.DAT From 0 to 1000 msec

Averaged Harmonic/Noise Ratio : 238.3

Average F0 (in Hz) : 197.5
Flucns.in F0 (in Hz) : 2.47
From File: C:\PEARSSH\A0169681.sjf  Client: ACHAL.BHAGAT  Case No: 1696
REPORT FOR THE FOLLOWING CLIENT

Client: VANITA.R.PATEL
Case No.: 1714
Age: 24 Female
Address: A/5, Vasudev Park
Nava Naroda
Ahmedabad

Referral Complaint: "Complaints of Dysphonia. Voice is better in the morning and the condition deteriorates as the day progresses."
Problem is present since last one month, Reported to be progressive.

Referred by: DR NK MANSETTA
ENT SURGEON

ENT Findings: Normal vocal folds

VOICE ANALYSIS
Glottoogram by Inversed Filtered Signal (Ix) reveals
- Adequate closure of the vocal folds
- Wave morphology reveals
  well defined closing space, well defined opening phase, well defined closed phase.
- Wave patterns are consistent.
Statistical analysis reveals
* adequate MPD score
* Pitch appropriate to the age and sex
* Adequate loudness
* No jitter or shimmer variation
  Good voice quality
* HNR score is within the normal limits
* LTAS reveals good resonance in the vocal tract.

Maximum Phonation Duration: 8.57
Jitter & Shimmer Measurements using JITSHIM Program
Date: 08-27-1999  Time: 01:54:28

File: C:\PEARS\A0171401.SIX  From 0 to 1000 msec

<table>
<thead>
<tr>
<th>DATA relating to F0 or T0</th>
<th>Amplitude</th>
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</thead>
<tbody>
<tr>
<td>Mean F0 (Hz) 244.8973</td>
<td>Mean A0 1793.6322</td>
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<tr>
<td>Jitter in T0 (%) 0.8129</td>
<td>Shimmer (dB) 0.1827</td>
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<tr>
<td>PVI 0.0819</td>
<td>AVI 0.6251</td>
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<td>DPQ (%) 61.4108</td>
<td>DPQ (%) 50.2075</td>
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<tr>
<td>RAP [3 Point] 0.0090</td>
<td>APQ 1.2736</td>
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<tr>
<td>RAP [5 Point] 0.0050</td>
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<tr>
<td>DLT 0.0269</td>
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<tr>
<td>Jitter in F0 (%) 0.8155</td>
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<tr>
<td>Psigma 2.2316</td>
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</tbody>
</table>

Harmonic/Noise Ratio measurements using HNR program
Date: 08-27-1999  Time: 01:56:02

File: C:\PEARS\A0171401.DAT  From 0 to 1000 msec

Averaged Harmonic/Noise Ratio :  981.9

Average F0 (in Hz) :  246.2
Flucns. in F0 (in Hz) :  3.73

LTAS [ Long Term Average Spectrum ] Results
Date: 08-27-1999  Time: 01:56:46

File: C:\PEARS\A0171401.DAT  From 0 to 1000 msec

Intensity 0 to 1 kHz: 89.05006
Intensity 1 to 5 kHz: 82.94186
Alpha-Ratio [(0 to 1) / (1 to 5) kHz] : 4.08143
Alpha-Ratio dB [(0 to 1) / (1 to 5) kHz]: .3536799

Intensity 0 to 2 kHz: 89.94387
Intensity 2 to 8 kHz: 71.24727
Beta - Ratio [(0 to 2) / (2 to 6) kHz]: 74.06902
Beta - dB Ratio [(0 to 2) / (2 to 8) kHz]: .5888605

Intensity 5 to 8 kHz: 48.36462
Gamma - Ratio [(0 to 1) / (5 to 8) kHz]: 11708.26
Gamma - dB Ratio [(0 to 1) / (5 to 8) kHz]: .8099728
Date: 08-27-1999          Time: 01:57:51
File: C:\PEARS\A0171401.DAT From 0 to 1000 msec

<table>
<thead>
<tr>
<th></th>
<th>F0 in (in Hz)</th>
<th>Intensity (in dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean</td>
<td>245.10</td>
<td>50.35</td>
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<tr>
<td>Maximum</td>
<td>250.00</td>
<td>51.61</td>
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<tr>
<td>Minimum</td>
<td>242.19</td>
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<tr>
<td>Range</td>
<td>7.81</td>
<td>2.51</td>
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<tr>
<td>Fluctuations/sec</td>
<td>0.99</td>
<td>0.00</td>
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<tr>
<td>Extent of Fluctns.</td>
<td>3.14</td>
<td>0.00</td>
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<tr>
<td>Psigma</td>
<td>1.33</td>
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REPORT FOR THE FOLLOWING CLIENT

Client : NIPA.R.SHAH
Case No. : 1713
Age : 27 Female
Address : C-2, Jay Apartments
          Opp Bhansidhar Society
          Bhatta, Paldi
          AHMEDABAD
          Ph 6644900

Referral Complaint : "Hoarse Voice"
Problem is present since last 4 months
Sudden in onset. Started after
voice abuse (participation in
a marriage function)
Reported to be progressive

Consulted and treated medically.
No improvement.

Referred by : DR NK MANSETTA
ENT SURGEON

ENT Findings : Thickened Vocal folds

ADVISIED VOICE ANALYSIS
Glottogram derived by Inversed Filtered signal
reveals:
Inadequate closure of the vocal folds.
It fluctuates between adequate closure
and inadequate closure.
Wave morphology reveals Well defined
closing phase, closed phase and
well defined opening phase
Wave pattern are slightly irregular

Statistical analysis reveals
- High pitched voice
- Inadible loudness
- Jitter and shimmer values are slightly high
- HNR is adequate for age age
Maximum Phonation Duration : 5.43 sec

F0 and Intensity Measurements using F0INT
Date: 08-26-1999 Time: 00:45:02

File : C:\PEARS\A0171301.DAT From 0 to 1000 msec

<table>
<thead>
<tr>
<th>F0 in (in Hz)</th>
<th>Intensity (in dB)</th>
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<tbody>
<tr>
<td>Mean</td>
<td>283.49</td>
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<td>Maximum</td>
<td>287.96</td>
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<tr>
<td>Minimum</td>
<td>279.50</td>
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<tr>
<td>Range</td>
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<tr>
<td>Fluctuations/sec</td>
<td>7.92</td>
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<td>Extent of Fluctns.</td>
<td>4.03</td>
</tr>
<tr>
<td>Psigma</td>
<td>1.93</td>
</tr>
</tbody>
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Jitter & Shimmer Measurements using JITSHIM Program
Date: 08-26-1999 Time: 00:50:02

File : C:\PEARS\A0171301.SIX From 0 to 1000 msec

DATA relating to F0 or T0 Amplitude

<table>
<thead>
<tr>
<th>Mean F0 (Hz)</th>
<th>Mean A0</th>
<th>Mean A0</th>
</tr>
</thead>
<tbody>
<tr>
<td>282.8961</td>
<td>2979.3643</td>
<td>282.8961</td>
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<tr>
<td>Jitter in T0 (%)</td>
<td>4.2797</td>
<td>Shimmer (dB)</td>
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<tr>
<td>PVI</td>
<td>0.9911</td>
<td>AVI</td>
</tr>
<tr>
<td>DPQ (%)</td>
<td>70.6093</td>
<td>DPQ (%)</td>
</tr>
<tr>
<td>RAP [3 Point]</td>
<td>0.0295</td>
<td>APQ</td>
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<tr>
<td>RAP [5 Point]</td>
<td>0.0242</td>
<td></td>
</tr>
<tr>
<td>DLT</td>
<td>0.0997</td>
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</tr>
<tr>
<td>Jitter in F0 (%)</td>
<td>4.2848</td>
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</tr>
<tr>
<td>Psigma</td>
<td>8.9617</td>
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</tr>
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</table>

Harmonic/Noise Ratio measurements using HNR program
Date: 08-26-1999 Time: 00:52:07

File : C:\PEARS\A0171301.DAT From 0 to 1000 msec

Averaged Harmonic/Noise Ratio : 134.3

Average F0 (in Hz) : 285.7
Flucns.in F0 (in Hz) : 5.01
REPORT FOR THE FOLLOWING CLIENT

Client : DIPAK.R.SHARMA
Case No. : 1765
Age : 27 Male
Address : C/84 Goyal Park
Premchandnagar Road
Vastrapur
Ahmedabad
Ph: 675 3786

Referral Complaint : Harsh Voice
Problem is present since last 4 weeks.
He feels it started after taken 'some food'. Problem is steady. Neither improvement nor deterioration.
No habit of smoking, chewing tobacco.
No HO throat pain, irritation in his throat.
He is in service. Work situation demands excessive use of speech. At times he has to shout at his subordinates.

Referred by : Dr NK Manseta
ENT Surgeon

VOICE ANALYSIS:
Glottogram derived by Inverse Filtered Signal reveals
1. Inadequate closure of the vocal folds. Vocal folds are not meeting in midline.
2. Wave morphology
   - CLOSED PHASE of the vocal fold of the Laryngeal wave is almost absent
   - OPENING PHASE reveals sudden burst and shows a spike.
   - CLOSING PHASE appears normal
   - RETURN PHASE is prolonged.
3. Wave pattern is consistant

Statistical findings reveals
1. Relatively low MPD score
2. Pitch is high
3. Loudness is appropriate and audible
4. Jitter and shimmer score are little high
5. HNR score is low suggesting NOISE content
6. LTAS do not suggests excessive air in higher frequencies.

FINDINGS ARE SUGGESTIVE OF POOR ELASTICITY OF THE VOCAL FOLD MUSCLES. REQUIRED ELASTIC RECOIL DURING PHONATION IS ABSENT. SUSPECTED VOCAL CORD PARALYSIS.

Mallikarjun
Maximum Phonation Duration : 6.04 sec

F0 and Intensity Measurements using F0INT
Date: 12-29-2000 Time: 01:17:56
File : C:\PEARS\A0176501.DAT From 0 to 1000 msec

<table>
<thead>
<tr>
<th>F0 in (Hz)</th>
<th>Intensity (in dB)</th>
</tr>
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<tbody>
<tr>
<td>Mean</td>
<td>160.60</td>
</tr>
<tr>
<td>Maximum</td>
<td>163.68</td>
</tr>
<tr>
<td>Minimum</td>
<td>157.65</td>
</tr>
<tr>
<td>Range</td>
<td>6.03</td>
</tr>
<tr>
<td>Fluctuations/sec</td>
<td>9.90</td>
</tr>
<tr>
<td>Extent of Fluctns.</td>
<td>3.44</td>
</tr>
<tr>
<td>Psigma</td>
<td>1.46</td>
</tr>
</tbody>
</table>

Jitter & Shimmer Measurements using JITSHIM Program
Date: 12-29-2000 Time: 01:18:28
File : C:\PEARS\A0176501.SIX From 0 to 1000 msec

<table>
<thead>
<tr>
<th>DATA relating to</th>
<th>F0 or T0</th>
<th>Mean F0 (Hz)</th>
<th>Mean A0</th>
<th>Amplitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jitter in T0 (%)</td>
<td>7.2141</td>
<td>159.7998</td>
<td></td>
<td>2823.2393</td>
</tr>
<tr>
<td>PVI</td>
<td>3.2600</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DPQ (%)</td>
<td>73.0769</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAP [3 Point]</td>
<td>0.0488</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAP [5 Point]</td>
<td>0.0413</td>
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<td></td>
<td></td>
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<td>DLT</td>
<td>0.3296</td>
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<td>Jitter in F0 (%)</td>
<td>7.2480</td>
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<td></td>
</tr>
<tr>
<td>Psigma</td>
<td>9.2148</td>
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</tr>
</tbody>
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Harmonic/Noise Ratio measurements using HNR program
Date: 12-29-2000 Time: 01:19:44
File : C:\PEARS\A0176501.DAT From 0 to 1000 msec

Averaged Harmonic/Noise Ratio : 93.4

Average F0 (in Hz) : 160.0
Flucns.in F0 (in Hz) : 0.00
REPORT FOR THE FOLLOWING CLIENT

Client No. : BHARAT.P.PRAJAPATI
Case No. : 1661
Age : 27 M
Address : 47 Hirabhai Market
          DB Road, Kankaria
          Ahmedabad

Referred by : Dr Navin K Patel
Referral Complaint : Cannot shout, Feels his voice is femalish. At times hoarse voice is seen. Also complained of pitch break.
ENT Examination IDLE reveals "Bowing of vocal cords"
Surgical Intervention is ruled out
Advised voice therapy
PUBERPHONIA

VOICE ANALYSIS
Glottogram pattern reveals
1. Adequate closure of the vocal folds
2. Well defined closing phase, opening phase and closed phase
3. Consistant wave pattern

Statistical findings do not reveal any abnormality
Maximum Phonation Duration: 16.86 sec

FO and Intensity Measurements using FOINT
Date: 04-06-1999 Time: 01:48:18

File: C:\PEARS\A0166101.DAT From 0 to 1000 msec

<table>
<thead>
<tr>
<th>FO in (in Hz)</th>
<th>Intensity (in dB)</th>
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<tr>
<td>Mean</td>
<td>136.04</td>
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<tr>
<td>Maximum</td>
<td>139.93</td>
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<tr>
<td>Minimum</td>
<td>133.35</td>
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<tr>
<td>Range</td>
<td>6.58</td>
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<tr>
<td>Fluctuations/sec</td>
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<tr>
<td>Extent of Fluctns.</td>
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<tr>
<td>Psigma</td>
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Jitter & Shimmer Measurements using JITSHIM Program
Date: 04-06-1999 Time: 01:52:01

File: C:\PEARS\A0166101.SIX From 0 to 1000 msec

DATA relating to FO or TO Amplitude
Mean FO (Hz) 135.8659 Mean A0 2412.7954
Jitter in TO (%) 0.6383 Shimmer (dB) 0.2524
PVI 0.2737 AVI 0.7829
DFQ (%) 54.9618 DPQ (%) 51.9084
RAP [3 Point] 0.0115 APQ 2.0009
RAP [5 Point] 0.0039          
DLT 0.0359                
Jitter in FO (%) 0.6376                   
Psigma 2.2537

Harmonic/Noise Ratio measurements using HNR program
Date: 04-08-1999 Time: 01:53:33

File: C:\PEARS\A0166101.DAT From 0 to 1000 msec

Averaged Harmonic/Noise Ratio: 597.3
Averaged Harmonic/Noise Ratio [in dB]: 27.762

Average FO (in Hz): 133.3
Flucns in FO (in Hz): 5.80

LTAS [Long Term Average Spectrum] Results
Date: 04-06-1999 Time: 01:54:40

File: C:\PEARS\A0166101.DAT From 0 to 1000 msec

Intensity 0 to 1 kHz: 89.65823
Intensity 1 to 5 kHz: 78.81503
REPORT FOR THE FOLLOWING CLIENT

Client: SHAKARIBEN
Case No.: 873
Age: 32 Female
Address:
Referral Complaint: "Hoarse voice"
History of undergoing surgery for vocal nodule 4 years ago.
Referred by: Dr Navin K Patel
ENT Finding: PO Chink

Maximum Phonation Duration: 7.69 sec

F0 and Intensity Measurements using FOINT
Date: 12-12-2000 Time: 23:54:39
File: C:\TEMP\A0087301.DAT From 0 to 1000 msec

<table>
<thead>
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<th></th>
<th>F0 in (in Hz)</th>
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<tbody>
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<td>Mean</td>
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<td>Psigma</td>
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Jitter & Shimmer Measurements using JITSHIM Program
Date: 12-12-2000 Time: 23:55:07
File: C:\TEMP\A0087301.SIX From 0 to 1000 msec

DATA relating to F0 or T0 Amplitude
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<th>Parameter</th>
<th>Value</th>
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<th>Value</th>
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<tr>
<td>Mean F0 (Hz)</td>
<td>214.7882</td>
<td>Mean A0</td>
<td>2802.1226</td>
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<td>Jitter in T0 (%)</td>
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<td>Shimmer (dB)</td>
<td>0.2158</td>
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<td>PVI</td>
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<td>1.0576</td>
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<td>DPQ (%)</td>
<td>63.5071</td>
<td>DPQ (%)</td>
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<td>RAP [3 Point]</td>
<td>0.0117</td>
<td>APQ</td>
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<td>RAP [5 Point]</td>
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<td>DLT</td>
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<td>Jitter in F0 (%)</td>
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<td>Psigma</td>
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REPORT FOR THE FOLLOWING CLIENT

Client : NITABEN P. JOSHI
Case No. : 1710
Age : 42 Female
Address : D-4, Chandrabhumi Apt
          Prerna Park Society
          Opp LG Hospital
          Maninagar
          Ahmedabad
          Ph 5461843

Referral Complaint : Complaints of periodic dysphonia.
Problem is present since last two years.
Non progressive
Dryness of throat

Referred by : DR NAVIN K PATEL
ENT SURGEON

ENT Findings : Vocal fold Oedema

VOICE ANALYSIS
Glottogram derived by Inversed Filtered Signal(Ix) reveals
1. Inadequate closure of the vocal folds
2. Wave morphology is suggestive of
   - Prolonged open phase
   - Painful adduction process
   - Closed phase and return phase of the vocal folds are distinct
3. Wave pattern is consistent

Statistical analysis reveals
1. Low pitched voice
2. Adequate loudness
3. Jitter and Shimmer values are within normal limits
4. HNR values are within normal limits
5. LTAS do show good resonance
6. Relatively low MFQ time
FO and Intensity Measurements using FOINT
Date: 08-24-1999  Time: 01:58:10

File: C:\PEARS\A0171001.DAT  From 0 to 1000 msec

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<th>FO in (in Hz)</th>
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<td>Maximum</td>
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<td>Minimum</td>
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<td>Fluctuations/sec</td>
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<td>Extent of Fluctns.</td>
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<tr>
<td>Psigma</td>
<td>1.97</td>
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Jitter & Shimmer Measurements using JITSHIM Program
Date: 08-24-1999  Time: 02:02:08

File: C:\PEARS\A0171001.SIX  From 0 to 1000 msec

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<tr>
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<th>Amplitude</th>
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<td>Mean F0 (Hz)</td>
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<td>RAP [3 Point]</td>
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<td>RAP [5 Point]</td>
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<td>DLT</td>
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<td>Jitter in F0 (%)</td>
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<td>Psigma</td>
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REPORT FOR THE FOLLOWING CLIENT

Client: ANIL.G.PATEL
Case No.: 1711
Age: 37 Male
Address: Rushabh nagar 3
Block 18, b/h srimadh soc., Morbi 2
Referral Complaint: "Hoarse voice"
Since last 2 months
Non progressive
Habit of chewing 'pan-masala'
Habit is since last 10 years
H/O chewing tobacco
17 years
Referred by: DR NK MANSETA
ENT SURGEON
ENT Findings: Normal Vocal folds

VOICE ANALYSIS
Glottogram derived by Inversed Filtered signal reveals
1. Inadequate closure of the vocal folds
   Suggestive of Bowing of mild degree
2. Wave morphology is suggestive of
   - Prolonged opening phase
   - Adequate closing phase
   - Adequate closed phase
3. Wave pattern is consistant

Statistical analysis reveals
1. Adequate Pitch
2. Adequate loudness
3. Voice quality is age appropriate
4. Adequate HNR Score
5. MPD is adequate for his age

SUSPECTED THICKENED VOCAL FOLDS.
F0 and Intensity Measurements using F0INT
Date: 08-24-1999 Time: 04:21:26
File: C:\PEARS\A0171101.DAT From 0 to 1000 msec

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<th>F0 in (in Hz)</th>
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<td>Mean</td>
<td>122.41</td>
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<tr>
<td>Minimum</td>
<td>118.13</td>
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<tr>
<td>Range</td>
<td>4.28</td>
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<tr>
<td>Fluctuations/sec</td>
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<td>Extent of Fluctns.</td>
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<tr>
<td>Psigma</td>
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Jitter & Shimmer Measurements using JITSHIM Program
Date: 08-24-1999 Time: 04:24:32
File: C:\PEARS\A0171101.SIX From 0 to 1000 msec

DATA relating to F0 or T0 Amplitude

<table>
<thead>
<tr>
<th>Mean F0 (Hz)</th>
<th>Mean A0</th>
<th>Shimmer (dB)</th>
<th>DPQ (%)</th>
<th>DPQ (%)</th>
<th>APQ</th>
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</table>
REPORT FOR THE FOLLOWING CLIENT

Client : GODAVARI.K.THAKKER
Case No. : 1717
Age : 54 Female
Address : 13/A Tapovan Society
          Nehrunagar Ambawadi
          Ahmedabad 380015
          Ph : 6443867

Referral Complaint : "Hoarse voice"
Problem is present since last one and half years. Reported to be gradually deteriorating.
Voice fluctuates between "good" and "Hoarse"
H/O singing. Esp 'bhajan'.
? vocal abuse.

Referred by : DR NK MANSETTA
              ENT SURGEON

ENT Findings : She has consulted Dr Urmil Chalishazar ENT for voice disorder. He reported vocal nodule on IDLE and suggested surgery. No action taken.

VOICE ANALYSIS
Glottogram derived by inverse filtered signal reveals
1. Closure of the vocal folds fluctuates between adequate closure and inadequate closure.
2. Wave pattern is inconsistent
3. Wave morphology reveals
   - well defined 'closed phase'
   - 'opening phase' fluctuates
   - 'Closing phase' reveals hazzi feature suggesting uneven surface.

Statistical Analysis reveals
* Low pitched voice
* Adequate loudness
* Jitter and Shimmer score reveals
  Pitch perturbation mild degree
* HNR score is relatively low can be described as rough voice
* LTAS reveals poor resonance mechanism
* Low MPD score
FO and Intensity Measurements using FOINT
Date: 09-01-1999 Time: 01:46:36

File: C:\PEARS\A0171701.DAT From 0 to 1000 msec

<table>
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<th></th>
<th>F0 (in Hz)</th>
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<tbody>
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Jitter & Shimmer Measurements using JITSHIM Program
Date: 09-01-1999 Time: 01:51:27

File: C:\PEARS\A0171701.SIX From 0 to 1000 msec

DATA relating to F0 or T0

<table>
<thead>
<tr>
<th></th>
<th>Mean F0 (Hz)</th>
<th>Mean A0</th>
<th>Shimmer (dB)</th>
<th>Amplitude</th>
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REPORT FOR THE FOLLOWING CLIENT

Client : YOGINI.A.PANDIT
Case No. : 892
Age : 46 Female
Address : 39 Vishalnagar
          Isanpur
          Ahmedabad
          Ph 5394545

Referral Complaint : Hoarse voice
Problem is present since last 3 years.
Reported to be sudden in onset.
No anticidents reported.
She is teacher by profession.

Referred by : Dr Mishra
              ENT Surgeon
              Kararosad

ENT Findings : Left Vocal cord Paralysis
### FO and Intensity Measurements using FOINT

**Date:** 06-07-2001  
**Time:** 23:29:08

**File:** C:\PEARSSHC\A0089201.DAT  
From 0 to 1000 msec

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<td>Psigma</td>
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### Jitter & Shimmer Measurements using JITSHIM Program

**Date:** 06-07-2001  
**Time:** 23:33:42

**File:** C:\PEARSSHC\A0089201.SIX  
From 0 to 1000 msec

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<tr>
<td>Mean F0 (Hz)</td>
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<td>DPQ (%)</td>
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<td>RAP [3 Point]</td>
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<td>RAP [5 Point]</td>
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<td>Psigma</td>
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From File: C:\PEARSSHC\A0089201.sjf  Client: YOGINI  Case No: 892
MEAN : 227.4
MODE  : 228.6
MEDIAN: 227.0

From File Name: C:\PEARSSHC\A0089201.sjf
Client: YOGINI
Case No: 892
REPORT FOR THE FOLLOWING CLIENT

Client : BHURABHAI.J.GAJERA
Case No. : 1683
Age : 54 M
Address : 57, Arvind park
           Nr Samjuba
           Bapunagar
           Ph: 2748004

Referred by : Dr NK Manseta
ENT Findings : Vocal cord paralysis
Referral Complaint : "Hoarse voice"
Sudden in onset
Followed by By-Pass surgery
Underwent surgery on 08/06/2000

VOICE ANALYSIS
Glottogram derived by Inverse Filtered Signal reveals
1. Inadequate closure of the vocal folds
2. Wave morphology is suggestive of irregular morphology
3. Wave pattern is inconsistent

Statistical findings are suggestive of
1. Adequate pitch
2. Voice is audible
3. High pitch perturbation score
4. Very low HNR score (approximately 16.5 dB)
5. LTAS also reveals subharmonics predominatly noise in his speech
FO and Intensity Measurements using FOINT
Date: 06-21-1999 Time: 02:62:34
File: C:\PEARS\A0168301.DAT From 0 to 1000 msec

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<td>Mean</td>
<td>134.32</td>
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<tr>
<td>Maximum</td>
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<td>Minimum</td>
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<td>Range</td>
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<td>Fluctuations/sec</td>
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<td>Extent of Fluctns.</td>
<td>45.67</td>
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<tr>
<td>Psigma</td>
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Jitter & Shimmer Measurements using JITSHIM Program
Date: 06-21-1999 Time: 02:56:32
File: C:\PEARS\A0168301.SIX From 0 to 1000 msec

DATA relating to F0 or T0

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<th></th>
<th>F0 or T0</th>
<th>Amplitude</th>
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<tbody>
<tr>
<td>Mean F0 (Hz)</td>
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<tr>
<td>Jitter in T0 (%)</td>
<td>32.6863</td>
<td>Shimmer (dB)</td>
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<td>DPQ (%)</td>
<td>74.7826</td>
<td>DPQ (%)</td>
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<td>RAP [3 Point]</td>
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<td>RAP [5 Point]</td>
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<td>DLT</td>
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<tr>
<td>Jitter in F0 (%)</td>
<td>34.7822</td>
<td>Psigma</td>
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REPORT FOR THE FOLLOWING CLIENT

Client: DR. PRADIPTA. GANGULI
Case No.: 1740
Age: 54 Female
Address: A-704 Nirmal Shanti Tower
Opp Goyal Park
Budakdev nagar
Ahmedabad

Referral Complaint: Basically a professional singer. From recent past she finds difficulty in singing. Problem is present since last 2 years. She is singing for last 50 years.

Referred by: Dr Balge

ENT Findings: Normal vocal nodule
( ? vocal nodule)

VOICE ANALYSIS
Glotogram derived by Inverse Filetered system reveals
1. Adequate closure of the vocal folds
2. Wave morphology reveals
   - well defined closed phase
   - well defined opening phase
   - well defined closing phase
3. Wave pattern is consistant

NORMAL VOICE PATTERN
FO and Intensity Measurements using FOINT
Date: 11-08-1999       Time: 01:16:49
File: \PEARS\A0174001.DAT From 0 to 1000 msec

<table>
<thead>
<tr>
<th></th>
<th>FO in (in Hz)</th>
<th>Intensity (in dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean</td>
<td>212.84</td>
<td>48.67</td>
</tr>
<tr>
<td>Maximum</td>
<td>216.95</td>
<td>50.52</td>
</tr>
<tr>
<td>Minimum</td>
<td>210.35</td>
<td>46.28</td>
</tr>
<tr>
<td>Range</td>
<td>6.60</td>
<td>4.24</td>
</tr>
<tr>
<td>Fluctuations/sec</td>
<td>1.98</td>
<td>0.99</td>
</tr>
<tr>
<td>Extent of Fluctns.</td>
<td>4.11</td>
<td>3.01</td>
</tr>
<tr>
<td>Psigma</td>
<td>1.05</td>
<td></td>
</tr>
</tbody>
</table>

Jitter & Shimmer Measurements using JITSHIM Program
Date: 11-08-1999       Time: 01:20:07
File: \PEARS\A0174001.SIX From 0 to 1000 msec

<table>
<thead>
<tr>
<th>DATA relating to</th>
<th>FO or TO</th>
<th>Amplitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean F0 (Hz)</td>
<td>212.5189</td>
<td>1258.1971</td>
</tr>
<tr>
<td>Jitter in T0 (%)</td>
<td>1.0009</td>
<td>0.3061</td>
</tr>
<tr>
<td>PVI</td>
<td>0.0933</td>
<td>0.6274</td>
</tr>
<tr>
<td>DPQ (%)</td>
<td>63.7681</td>
<td>73.9130</td>
</tr>
<tr>
<td>RAP [3 Point]</td>
<td>0.0108</td>
<td>1.9067</td>
</tr>
<tr>
<td>RAP [5 Point]</td>
<td>0.0062</td>
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</tr>
<tr>
<td>DLT</td>
<td>0.0362</td>
<td></td>
</tr>
<tr>
<td>Jitter in F0 (%)</td>
<td>0.9997</td>
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<tr>
<td>Psigma</td>
<td>2.0440</td>
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</tbody>
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MEAN: 212.5
MODE: 213.3
MEDIAN: 213.0

From File Name: C:\PEARSSHIC\A0174001.sjf
Client: DR.PRADIPTA.GAN
Case No: 1740