電話相談の解析		% of patients are females → Progress on females
Solution and the second se	(b) Age distribution of the patient	0-, 29%, 11-20 years: 15% 21-3c 24%, 31-40 years: 17% 41-50 ye : 9%, 50+ years: 7 %
MCLADESH FRIENDSHR	(c) Sex	Male: 67%, Female: 33%
1BFH	(d) Location	Rural: 30%, Urban: 70%
Data Source: Tele health 10600 (Case-2	(e) Call completion	Complete: 68%, Incomplete: 32%
Duration: December, 2009 Total Records: 10000 Selected Records: 400	(f) Time of call	Day (8:00-15:30): 57 % Evening (15:20-22:00): 10% Night 17% follow up
	(g) Time occupancy of a single call	Advice patients
	(h) Consultancy about	Diseas →Popular !!! related: 21%
	(i) Type of advices	Prescribed
	(j) Patients	Follow up: 17%, New: 83%
Net Patient @Home Doctors @Call Center	(k) Major diseases consulted	Gastro-intestinal: 22%, Respiratory: 17%, Reproductive:10%, skin: 10%
CDR: Call Detail Record		

[1] E. Kai and A. Ahmed, "Technical Challenges in Providing Health Consultancy Services for the Unreached Community", MJIIT Syn

Advantages and Technical Challenges

• Social and Business Aspect

- Female patients can stay anonymous for female diseases. Usually the female patients are attended by the husband.
- Access to basic healthcare by millions of unreached patients
- Both CSR and Business advantages

*** Technical Challenges**

- * Bad quality of communications causes high call drop out rates and increases patient irritations
- * Doctors cannot access to past clinical records for repeated patients
- * Doctors can not make a good clinical decision, no diagnostic tools at the patient side to provide health data

Our response to the technical challenges



PHR: Personal Health Record

PHR collection: health check-up from masses GramHealth DB Conversation Data 3 Vital Data **Clinical Data** cription Triag Health care Gui eline res Triag 2. 3. Tele 4. Health Consultanc **⊅rescri**∦ n checku Registration & sugg bn ν Þ 2 months later 10% .15% 9% **Doctor Advantages:** 30% 26%. 1. Saves 60% doctor-time \rightarrow Can 49% Patients Advantages: see more patients 1. Access to quality healthcare Village-3 (n=15 2. Immediate access to past e-2 from home health records \rightarrow Better 2. Saves travel time and cost clinical decision

GramHealth DB becomes BigData!!





Analysis of BigData will produce Trending

- -Disease pattern
- -Geographical distribution
- -Cohort characteristics

Invaluable resource for the Data mining researchers