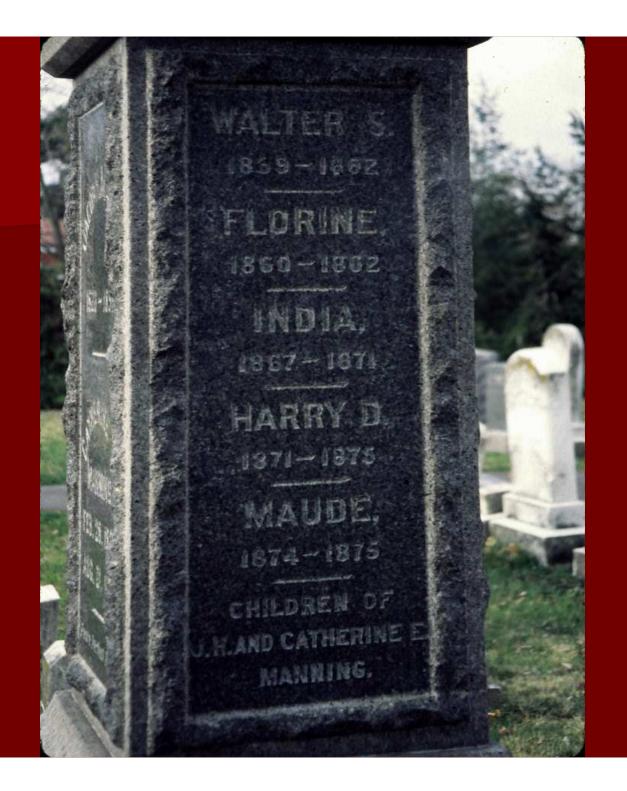
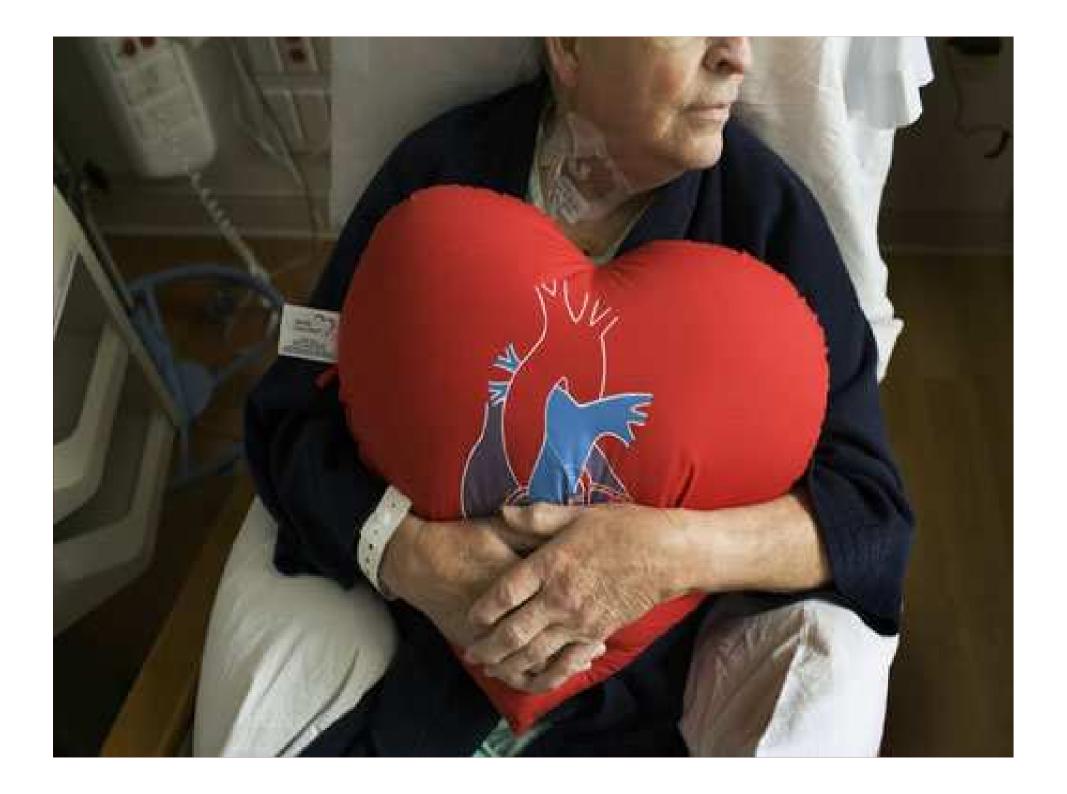
Personalized, Predictive and Pervasive Wellness

G. Terry Sharrer, Ph.D. Editor, MedicalAutomation.org







CDC&P's relative factors in premature death

| | 200/ |
|-------------|--------|
| - (-ANATICS | 311U/a |
| Genetics | 30% |

| C → -! → I | 4 E0/ |
|------------|-------|
| | |
| Social | 15% |

■ Environmental 5%

■ Health care 10%

■ Behavior 40%

Leading causes of death and costs in the US

| _ | | |
|---|---------|---------|
| | neart (| disease |

- 2. cancer
- 3. chronic lung
- 4. stroke
- 5. accidents
- 6. Alzheimer's
- 7. diabetes
- 8. kidney disease
- 9. pneumonia/flu
- 10. suicide

| 595,444- | \$190 bill |
|----------|------------|
| 573,855- | \$227 bil |









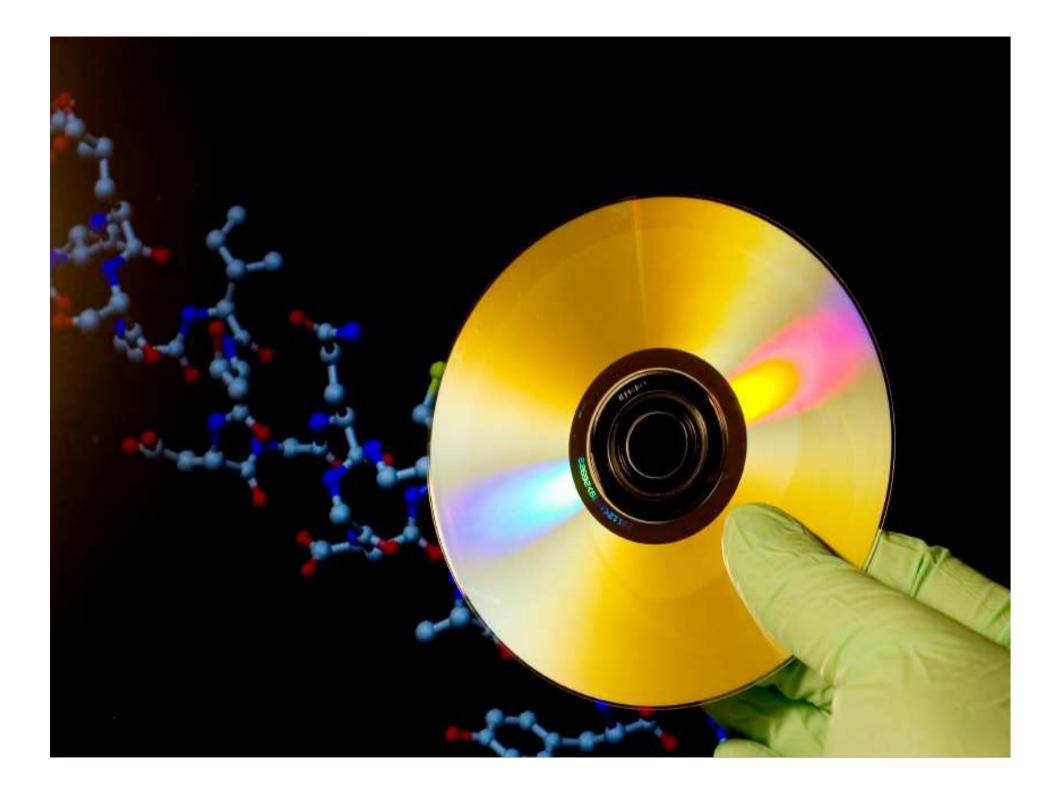


| | and a table business | | | enterently. | average intensity. | permutational |
|--|--|---------------------|---|-------------|-----------------------|---------------|
| non-metastatic tumors | metastatic tumora | probe set | protein | metastatic | metastatic | Preside |
| | 11 | 1997 at | Retinoblastoma 1 | 3606 | 1998 | 0.004 |
| | The second second | 824_st | GTP-binding protein (RAB38) | 134 | 23 | 0.005 |
| | - Total Control of the Control of th | 1611 s.at | Interferon (IFN-y) | 131 | 39 | 0.007 |
| | The second secon | 1548 a MT | Interleukin 10 (IL.10) | 381 | 171 | 0.007 |
| The second second second | | 2042 s_at | c-myb | 117 | 36 | 0.010 |
| A STATE OF THE OWNER, WHEN THE PARTY OF THE | THE RESERVE TO SHARE THE PARTY OF THE PARTY | 885_g_at | Integrin a-3 chain | 1300 | 440 | 0.016 |
| THE RESERVE THE PERSON NAMED IN | CONTRACTOR OF THE PARTY OF THE | 529_at | Human dual-specificity protein phosphatase | 241 | 71 | 0.024 |
| | | 2070_Lat | Protein kinase (JNK1) | 273 | 107 | 0.026 |
| 100 miles and 10 | | 785_at | Nedd-4-like ubiquitin-protein ligase WWP2 | 1367 | 516 | 0.034 |
| | | 1912_s_st | APC Guanine Nucleotide Exchange Factor 2 | 47 | 10 | 0.036 |
| The second secon | The Personal Property of the Person of the P | 304_81 | Nuclear factor / 63 | 3367 | 1854 | 0.036 |
| | | 463_g_at | Keratinocyta growth factor | 239 | 140 | 0.036 |
| | - | 1600_at | Tyrosine kinase (TXK) | 322 | 183 | 0.037 |
| | | 654_at | MOCES | 3264 | 1812 | 0.037 |
| | Service of the servic | 1467_at | Fostermal prowth factor receptor kinase substrate (Epsil) | 960 | 471 | 0.037 |
| THE RESERVE OF THE PERSON NAMED IN | - The second sec | 1127_at | Ribosomai protein S6 kinase 2 (RPS8KAZ) | 857 | 366 | 0.040 |
| COURS OF STREET | | 2045_at | Erg protein (ets-related gene), 3' flank | 718 | 60 | 0.045 |
| THE RESERVE OF THE PERSON NAMED IN | | 2022_M | Rac protein kinase (f. | 489 | 269 | 0.046 |
| THE RESERVE AND ADDRESS OF THE PARTY OF THE | | 528_at | Heat shock protein 27 (HSP27) | 314 | 22 | 0.047 |
| | | 547_s_at | TINUR- NGFI-Binur77 ()-type transcription factor homolog. Protein kinase C (PKC) type () II | 162 | 32 | 0.048 |
| | | 1216_at | p300/CBP-associated factor (P/CAF) | 130 | 68 | 0.048 |
| | | 1012_at | p52 and p64 isoforms of N-Shc | 996 | 670 | 0.048 |
| The second secon | | 726 f at | Chorionic Somatomammotropin Hormone Cs-5 | 757 | 437 | 0.049 |
| The second secon | | 139_at | Guarrylane kinase associated protein (GKAP) | 52 | 26 | 0.050 |
| | | 205_g_at | Homeobox 3.4 | 35 | 213 | 0.000 |
| | | 829_8_at | Giutathione S-transferase-P1c | 2882 | 11495 | 0.000 |
| 1000 | | 239_at | Cathepain D (catD) | 790 | 1530 | 0.001 |
| St. Transport | | 652_g_st | Replication protein A 14k D subunit (RPA) | 158 | 3185 | 0.004 |
| The second second | | 1693_s_st | Tissue inhibitor of metalloproteinases (HUMTIMP) | 3356 | 11374 | 0.004 |
| | | 2062_st | MAC25 | 192 | 370 | 0.004 |
| | | 191_at 651_at | Mucin (MUC8) Replication protein A 14k D subunit (RPA) | 217 | 815 | 0.006 |
| | | 671_at | SPARG osteonectin | 4165 | 8808 | 0.007 |
| | | 1818_M | Ras-Like Protein Tc10 | 578 | 1310 | 0.007 |
| The second second second | | 1741_s_at | | 417 | 2012 | 0.006 |
| | | 841_at | Protein kmase C-binding protein RACK17 | 72 | 447 | 0.009 |
| | | 1321 s_et | Tumor-associated membrane protein homolog (TMP) | 33 | 104 | 0.009 |
| | | 1143_6_85 | FGF Receptor K-Sam, Alt. Splice 3 | 90 | 343 | 0.009 |
| THE RESERVE TO SERVE THE PARTY OF THE PARTY | | 1173 g at | Spermidine/Spermine N1-Acetyltransferase, Alt. Splice 2 | 3393 | 3486 | 0.010 |
| | | 709_at | β-tutrulin gene, clone m40 | 80 | 406 | 0.012 |
| | | 1319_M | X74764cds receptor protein tyrosine kinese | 368 | 780 | 0.012 |
| | | 368_at | 5T4 Oncofetal antigen | 281 | 749 | 0.013 |
| | | 1001_at | Putative receptor tyrosine kinese (fie) P1-Cric46 | 568 | 847 | 0.013 |
| | | 982_at 1052_s_at | | 864 | 1413 | 0.013 |
| THE RESERVE AND ADDRESS. | | 283_at | Ubiquinol cytochrome-c reductase core i | 2645 | 4256 | 0.013 |
| | | 1054 at | Replication factor C. 37-kD subunit | 332 | 543 | 0.015 |
| | - | 770_et | Glutathione peroxidase | 674 | 1979 | 0.016 |
| The second | | 317_at | D55696 Cysteine proteese | 513 | 1451 | 0.016 |
| | The state of the s | 1563_1_1 | Tumor necrosis factor receptor | 928 | 1675 | 0.017 |
| Sec. 100 | | 190_Wt | Mitogen induced hucleer orphan receptor (MINOR) | 50 | 212 | 0.017 |
| | | 1007_s_a | Receptor tyrosine kinase DDR | 1758 | 767 | 0.018 |
| | | 1606_lat | Receptor protein-tyrosine knase (HEKB) | 267 | 1340 | 0.019 |
| | 10000 | 995_at | 7-interferon-inducible protein (IP-30) | 443 | 695 | 0.019 |
| | | 1544_st | Bioom's syndrome protein (BLM) Homeobox protein (HCX7) | 10 | 277 | 0.019 |
| The second secon | | 215_g_st | Leukemia virus receptor 2 (GLVR2) | 270 | 819: | 0.019 |
| | | 1137_at 500_at | RNA polymerase II autunit (hsRPB10) | 1774 | 2885 | 0.021 |
| | | 1305 s_a | Cytochrome P-450LTBV | 365 | 641 | 0.023 |
| The second second | 100 | 1470 at | DNA polymerase delta small subunit | 577 | 1444 | 0.023 |
| | | 1196_at | RCC1 expns#7-14 | 220 | 637 | 0.025 |
| The second second | | 214_At | Homeobox protein (HCX7) | 1254 | 2617 | 0.025 |
| The second secon | DATE OF THE OWNER, THE | 1782 s_s | t Oncoprotein 18 (Op18) | 3241 | 4668 | 0.025 |
| The second secon | | 735_s_at | Protein Kinase Ht31, Camp-Dependent | 212 | 129 | 0.028 |
| THE RESERVE THE PARTY NAMED IN | | 926_at | (clone 14VS) metallothionein-IG (MT1G) | 5916 | 9573 | 0.029 |
| | | 428_s_at | mRNA fragment for 8-2 microglobulin. | 551 | 2009 | 0.030 |
| STATE OF THE PERSON NAMED IN | | 311_s_st 1226_st | Fibronectin, Alt Splice 1 TNF-ix converting enzyme | 123 | 206 | 0.031 |
| | The second second second | 1771 s.a | | 382 | 621 | 0.032 |
| | | 1985_6_6 | | 4199 | 8670 | 0,083 |
| | | 1825 at | Ras GTPase-activating-like protein (IQGAP1) | - 369 | 582 | 0.034 |
| | | 1637_at | MAPKAP kinasa (3pK) | 67 | 172 | 0.036 |
| | | 600_T_st | Metallothionein I-B | 3140 | 4404 | 0.036 |
| THE RESERVE OF THE PERSON NAMED IN | The second second | 1970_6_3 | K FOFR2 | 274 | 661 | 0.037 |
| THE RESERVE OF THE PERSON NAMED IN | 185 O. St. | 1379_at | M59371 Protein tyrosine kinese | 345 | 1046 | 0.037 |
| The second livery with | THE RESERVE | 2058_8_8 | | 630 | 1046 | 0.039 |
| | | 1939_at | Phosphoprotein p53 | 1995 | | |
| THE RESERVE OF THE PERSON | | 1104_5_6 | | 1990 | 763 | 0.043 |
| | 100 | 133,41 | *Celhepsin C | 83 | 257 | 0.044 |
| THE RESERVE OF THE PARTY OF THE | Division in the last of the la | 2024_8_8 | t Lyn 8 Homeotic Protein Hgx-5 | 344 | 510 | 0.044 |
| | The second second | 702 1 at 892 at | Tumor antigen (L6) | 53 | 179 | 0.044 |
| and the second s | 100 | 1721 0 | | 603 | 1070 | 0.045 |
| | | 861_g_at | | 721 | 1067 | 0.045 |
| The second second | | 2009 x | at or1(E)-catenin | 2467 | 3507 | 0.046 |
| Control of the last of the las | 10000 | | White the same of | | | |
| | | | | | | |

-

average

| Test | Normal Range |
|--------------------------------|--|
| Electrolytes: | |
| Bicarbonate | 22-33 mmol/L |
| Calcium | 8.510.5 mg/dL |
| Chloride | 95-105 mmol/L |
| Magnesium | 1.53.0 mg/dL |
| Phosphorus | 2.04.5 mg/dL |
| Potassium | 3.55.0 mmol/L |
| Sodium | 135–145 mmol/L |
| Liver function tests: | |
| ALT (SGPT) | 0-50 IU/L |
| AST (SGOT) | 045 IU/L |
| Bilirubin | |
| Alkaline phosphatase (AP) | 35-115 IU/L |
| GGT | |
| Kidney function tests: | |
| Blood urea nitrogen (BUN) | 820 mg/dL |
| Creatinine | 0.61.5 mg/dL |
| Other blood tests: | |
| Albumin (total serum) | 3.05.5 g/dL |
| Amylase | 50–160 IU/L |
| Creatine phosphokinase (CPK) | Men: 20-150 IU/L Women: 10-80 IU/L |
| Lactate (lactic) dehydrogenase | 100-250 IU/L |
| Testosterone | Men: 200-1,200 μg/dL Women: 20-60 μg/dL |

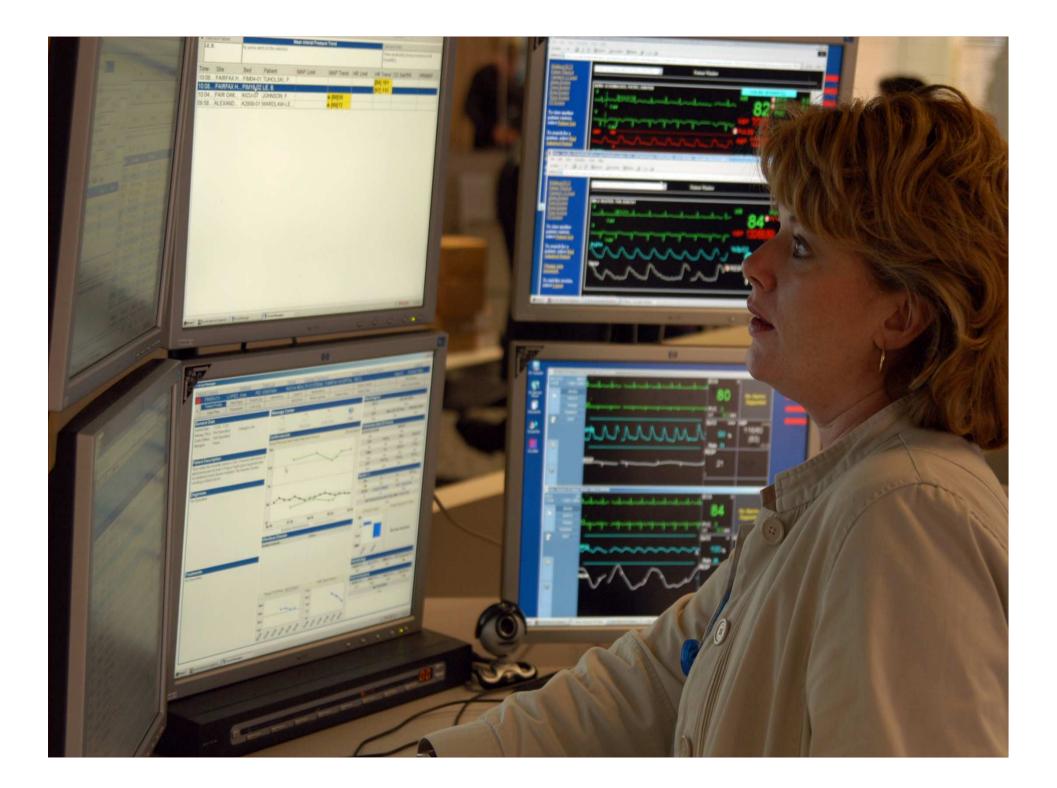


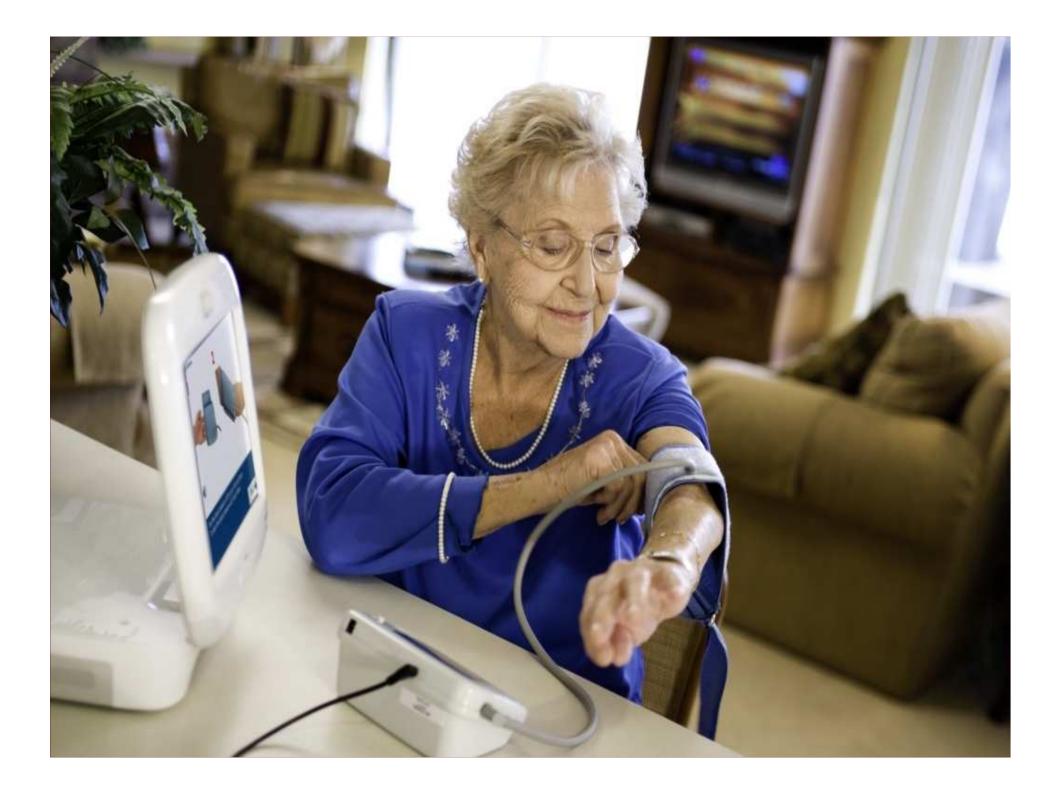








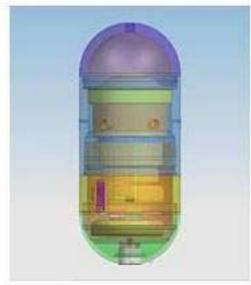




PHILIPS

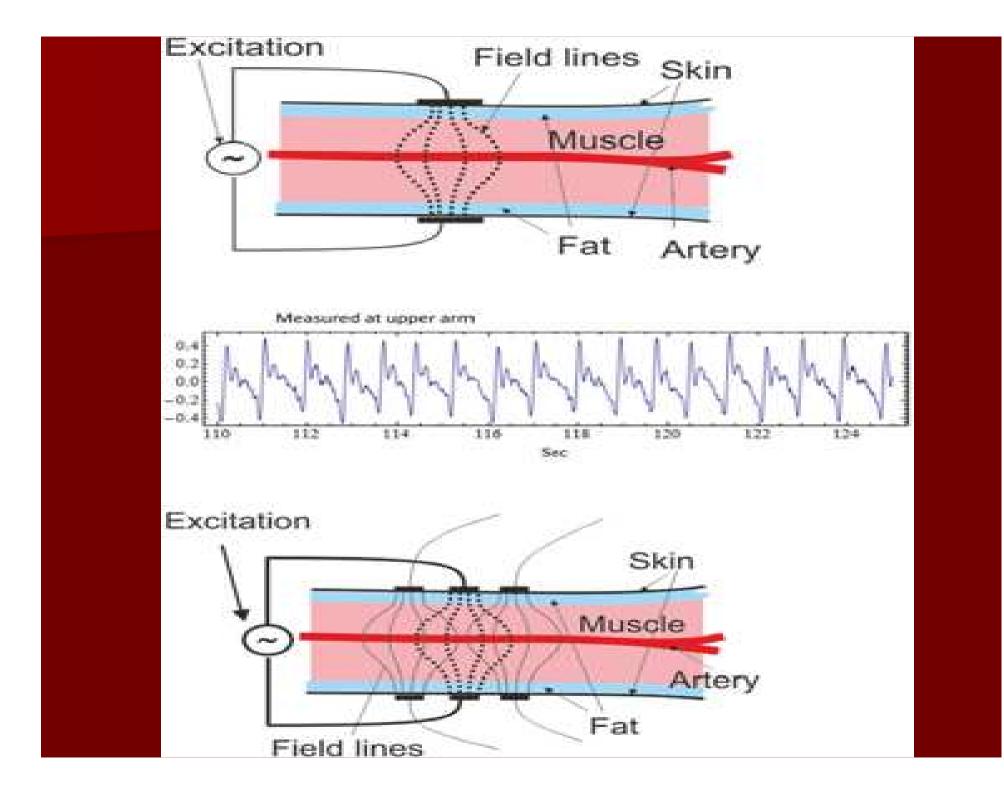
sense and simplicity







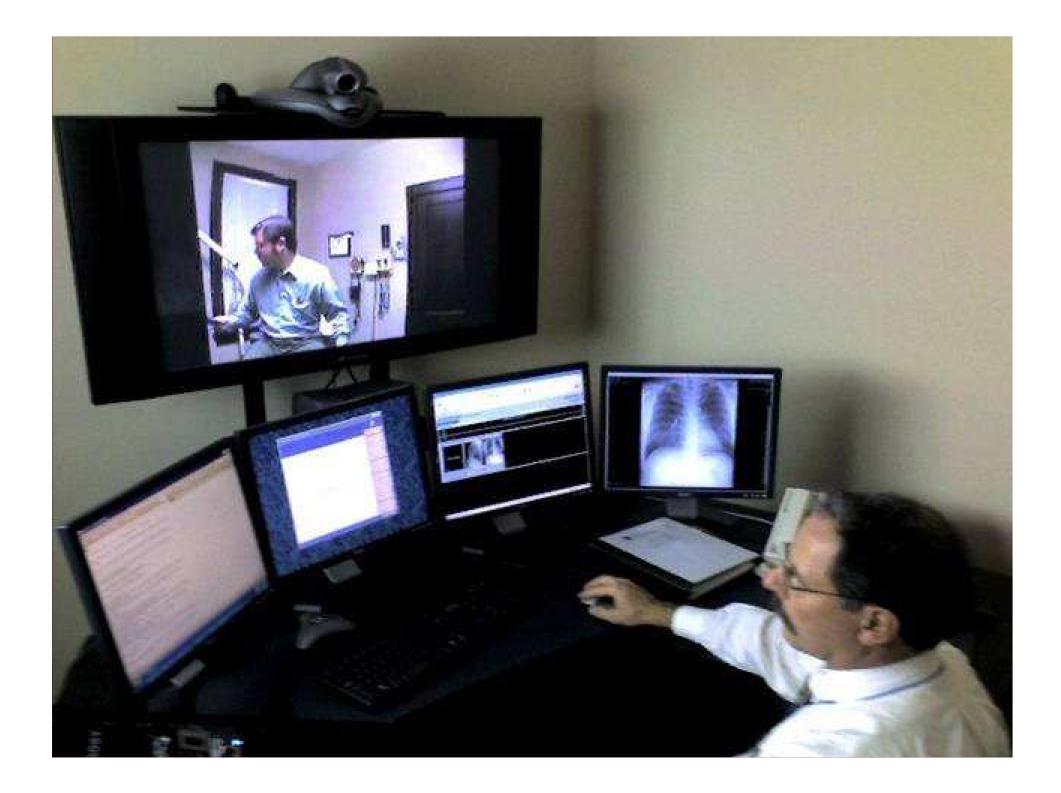














| 55 | | Total | 900 L2 | |
|------|----------------|------------|--------|---------|
| Bant | Member State | Population | Males | Females |
| 7 | Japan | 74.5 | 71.9 | 77.2 |
| 2. | Australia | 73.2 | 79.8 | 76.5 |
| 3 | France | 73.1 | 89.3 | 76.9 |
| | Sweden | 73.0 | 71.2 | 74.9 |
| 4 8 | Spain | 72.8 | 68.8 | 75.7 |
| | Baly | 72.7 | 70.0 | 75.4 |
| 7 | Greece | 72.6 | 76.6 | 74.E |
| * | Switzerland | 72.6 | 69.5 | 76.6 |
| 9: | Monaco | 72.4 | 88.5 | 76.3 |
| 10 | Andona | 72.3 | 69.3 | 76.2 |
| 11 | San Marino | 72.3 | 68.6 | 76.0 |
| 12 | Canada | 72.0 | 70,0 | 74.0 |
| 13 | Netherlands | 72.0 | 69.6 | 74.4 |
| 14 | United Kingdom | 71.7 | 69.7 | 73.7 |
| 16 | Norway | 28.7 | 68.8 | 74.6 |
| 16 | Belgium | 71.6 | 68.7 | 74.6 |
| 17 | Austria | 71.0 | 68.8 | 74.4 |
| 18 | Luxembourg | 71.1 | 68.0 | 74.2 |
| 19 | Iseland | 70.8 | 69.2 | 72.3 |
| 20 | Finland | 70.6 | 67.2 | 73.7 |
| 21 | | | 68.4 | 72.5 |
| 22 | Melta | 70.5 | 67.A | |
| | Germany | 70.4 | | 78.6 |
| 23 | tarnel | 70.4 | 69.2 | 71.6 |
| 24 | United States | 70.0 | 87.6 | 72.8 |
| 26 | Сургия | 69.3 | 68.7 | 70.9 |
| 26 | Dominica | 69.8 | 67.2 | 72.3 |
| 27 | treland | 69.8 | 67.8 | 71.2 |
| 28 | Denmark | 69.4 | 67.2 | 71.5 |
| 29 | Portugal | 69.3 | 65.9 | 72.7 |
| 30 | Singapore | 69.3 | 67.4 | 712 |

