

Supplementary Table S1. *List of Evaluated and Included Variables From the American Hospital Association Survey †*

| Metric | Included Variables | Excluded Variables |
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| Space | BDTOT (Total facility beds set up and staffed at the end of reporting period), VTOT (Total outpatient visits), GENBD (General medical and surgical (adult) beds), OBBD (Obstetric care beds), MSICBD (Medical/surgical intensive care beds), HOSPBBD (Total hospital beds (calculated), AIRBROOM (Number of airborne infection isolation rooms), LBEDSA (Licensed Beds Total Facility), ADMTOT (Total facility admissions), IPDTOT (Total facility inpatient days), BASSIN (Bassinets set up and staffed), VOTH (Other outpatient visits), ADJADM (Adjusted admissions), ADJPD (Adjusted patient days), ADJADC (Adjusted average daily census), OPRA (Number of Operating Rooms), GFEET (Total gross square feet of your physical plant), ADC | LTCHF (Freestanding LTCH), LTCHC (LTCH arranged within a general acute care hospital), SUNITS (Does the hospital maintain a separate nursing home type of long-term care unit?), LSHTXT (Joint other Description), PEDBD (General medical and surgical (pediatric) beds), OBLEV (Obstetric unit care level), OBBD (Obstetric care beds), CICBD (Cardiac intensive care beds), NINTBD (Neonatal intermediate care beds), PEDICBD (Pediatric intensive care beds), BRNBD (Burn care beds), SPCICBD (Other special care beds), OTHICBD (Other intensive care beds), REHABBD (Physical rehabilitation care beds), ALCHBD (Alcohol/drug abuse or dependency inpatient care beds), PSYBD (Psychiatric care beds), SNBD88 (Skilled nursing care beds), ICFBD88 (Intermediate nursing care beds), ACULTBD (Acute long-term care beds), OTHLBD94 (Other long-term care beds), OTHBD94 (Other care beds), BDTOT (Total facility beds set up and staffed at the end of reporting period), IPDTOT (Total facility inpatient days), BDH (Hospital unit beds set up and staffed), ADMH (Hospital unit admissions), IPDH (Hospital unit inpatient days), LBEDLA (Nursing home licensed beds), BDLT (Nursing home beds set up and staffed), ADMLT (Nursing home admissions), IPDLT (Nursing home inpatient days), BIRTHS (Total births (excluding fetal deaths)), SUROPIP (Inpatient surgical operations), SUROPOP (Outpatient surgical operations), SUROPTOT (Total surgical operations), VEM (Emergency room visits), VOTH (Other outpatient visits), ADJADM (Adjusted admissions), ADJADC (Adjusted average daily census), OPRA (Number of Operating Rooms), GFEET (Total gross square feet of your physical plant), LBEDSA |

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| | | (Licensed Beds Total Facility), BDTOT (Total facility beds set up and staffed at the end of reporting period), ADMTOT (Total facility admissions), IPDTOT (Total facility inpatient days), BDH (Hospital unit beds set up and staffed), ADMH (Hospital unit admissions), IPDH (Hospital unit inpatient days), LBEDLA (Nursing home licensed beds), BDLT (Nursing home beds set up and staffed), ADMLT (Nursing home admissions), IPDLT (Nursing home inpatient days), BASSIN (Bassinets set up and staffed), BIRTHS (Total births (excluding fetal deaths)), SUROPIP (Inpatient surgical operations), SUROPOP (Outpatient surgical operations), SUROPTOT (Total surgical operations), VEM (Emergency room visits), VOTH (Other outpatient visits), VTOT (Total outpatient visits), ADC (Average daily census), ADJPD (Adjusted patient days), ADJADC (Adjusted average daily census), OPRA (Number of Operating Rooms), GFEET (Total gross square feet of your physical plant) |
| Staff | PAYTOT (Total facility payroll expenses), FTRES (Full-time medical and dental residents and interns), FTTRAN84 (Full-time other trainees), FTRNTF (Full-time registered nurses), FFAST (Full-time nursing assistive personnel), FTRAD (Full-time radiology technicians), FTLAB (Full-time laboratory technicians), FTPHR (Full-time pharmacists, licensed), FTPHT (Full-time pharmacy technicians), FTRESP (Full-time respiratory therapists), FTOTHTF (Full-time all other personnel), FTTOT (Full-time total personnel), PTRNTF (Part-time registered nurses), PFAST (Part-time nursing assistive personnel), PTRAD (Part-time radiology technicians), PTLAB (Part-time laboratory technicians), PTPHR (Part-time pharmacists, licensed), PTPHT (Part-time pharmacy technicians), PTRESP (Part-time respiratory therapists), PTOTHTF (Part-time all other personnel), PTTOT (Part-time total personnel), FTTOTH (Total Full-time hospital unit personnel), PTTOTH (Total Part-time hospital unit | VMD (Physician and dentists- vacancies), VRES (Medical and dental residents/interns- vacancies), VTTRN (Other trainees - vacancies), VRN (Registered nurses - vacancies), VLPN (Licensed practical (vocational) nurses - vacancies), VAST (Nursing assistive personnel - vacancies), VRAD (Radiology technicians - vacancies), VLAB (Laboratory technicians - vacancies), VPHR (Pharmacists, licensed - vacancies), VPHT (Pharmacy technicians - vacancies), VRSP (Respiratory therapists - vacancies), VOTHL (All other personnel - vacancies), VTOTL (Total facility personnel - vacancies), VRNH (Nursing home type unit/facility registered nurses- vacancies), VTNH (Total nursing home type unit/facility personnel - vacancies), IPAP (Number of physicians, Independent Practice Association), GPWP (Number of physicians, Group Practice without walls), OPHP (Number of physicians, Open Physician- Hospital Organization (PHO)), CPHP (Number of physicians, Closed Physician- Hospital Organization (PHO)), MSOP (Number |

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| <p>personnel), FTEN (Registered nurses FTE), FTEAP (Nursing assistive personnel FTE), FTERAD (Radiology technicians FTE), FTELAB (Laboratory technicians FTE), FTEPH (Pharmacists, licensed FTE), FTEPHT (Pharmacy technicians FTE), FTERESP (Respiratory therapists FTE), FTEO (All other personnel FTE), FTETF (Total facility personnel FTE), FTERN (Full time equivalent registered nurses), FTERES (Full time equivalent medical and dental residents and interns), FTETRAN (Full time equivalent other trainees), FTEOTH94 (Full time equivalent all other personnel), FTEH (Full time equivalent hospital unit total personnel), FTE (Full time equivalent total personnel), TECAR (Primary care (general practitioner, general internal medicine, family practice, general pediatrics, obstetrics/gynecology, geriatrics) â total employed), TEGST (Radiologists/pathologist/anesthesiologist - D.11.e.1. total employed), TEOTH (Other specialists - total employed), TETOT (Total - Total Employed), TCCAR (Primary care (general practitioner, general internal medicine, family practice, general pediatrics, obstetrics/gynecology, geriatrics) â total individual contract), TGGST (Radiologists/pathologist/anesthesiologist - D.11.e.3. total group contract), TGTOT (Total - total group contract), NECAR (Primary care (general practitioner, general internal medicine, family practice, general pediatrics, obstetrics/gynecology, geriatrics) â not employed or under contract), TPCAR (Primary care (general practitioner, general internal medicine, family practice, general pediatrics, obstetrics/gynecology, geriatrics) â total privileged), TPMER (Emergency medicine - total privileged), TPHSP (Hospitalist - total privileged), TPGST (Radiologists/pathologist/anesthesiologist - D.11.e.5. total privileged), TPOTH (Other specialist - total privileged), TPRTOT (Total - total privileged), TPRTOT</p> | <p>of physicians, Management Service Organization (MSO)), ISMP (Number of physicians, Integrated Salary Model), EQMP (Number of physicians, Equity Model), FNDP (Number of physicians, Foundation), PHYP (Number of physicians, Other), FTMT (Total physicians engaged in arrangement with hospital), PAYTOTH (Hospital unit payroll expenses), PAYTOTLT (Nursing home payroll expenses), FTMDTF (Full-time physicians and dentists), FTTRAN84 (Full-time other trainees), FTRNTF (Full-time registered nurses), FTLPNTF (Full-time licensed practical or vocational nurses), FFAST (Full-time nursing assistive personnel), FTLAB (Full-time laboratory technicians), FTOTHTF (Full-time all other personnel), PTMDTF (Part-time physicians and dentists), PTRES (Part-time medical and dental residents and interns), PTTRAN84 (Part-time other trainees), PTLPNTF (Part-time licensed practical or vocational nurses), FTTOTLT (Total Full-time nursing home personnel), PTTOTLT (Total Part-time nursing home personnel), FTED (Physicians and dentists FTE), FTER (Medical and dental residents FTE), FTET (Other trainees FTE), FTEP (Licensed practical nurses FTE), FTERNLT (Nursing home type unit/facility registered nurses FTE), FTEU (Nursing home personnel FTE), ERNFTE (Number of direct patient care RN FTEs), FTEMD (Full time equivalent physicians and dentists), FTELPN (Full time equivalent licensed practical or vocational nurses), FTETRAN (Full time equivalent other trainees), FTETTRN (Full time equivalent total trainees), FTEOTH94 (Full time equivalent all other personnel), FTEH (Full time equivalent hospital unit total personnel), FTENH (Full time equivalent nursing home total personnel), TEMER (Emergency medicine - total employed), TEHSP (Hospitalist - total employed), TEINT (Intensivist - total employed), TCMER (Emergency medicine - total individual contract), TCHSP (Hospitalist - total individual contract), TCINT</p> |
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| | | <p>(Intensivist</p> <p>- total individual contract), TCGST (Radiologists/pathologist/anesthesiologist - total individual contract), TCOTH (Other specialist - total individual contract), TCTOT (Total - individual contract), TGCAR (Primary care (general practitioner, general internal medicine, family practice, general pediatrics, obstetrics/gynecology, geriatrics) - total group contract), TGMER (Emergency medicine - total group contract), TGHSP (Hospitalist - total group contract), TGINT (Intensivist - total group contract), TGOTH (Other specialist - total group contract), NEMER (Emergency medicine - not employed or under contract), NEHSP (Hospitalist - not employed or under contract), NEINT (Intensivist - not employed or under contract), NEGST (Radiologists/pathologist/anesthesiologist - D.11.e.4. not employed or under contract), NEOTH (Other specialist - not employed or under contract), NETOT (Total - not employed or under contract), TPCAR (Primary care (general practitioner, general internal medicine, family practice, general pediatrics, obstetrics/gynecology, geriatrics) â total privileged), TPINT (Intensivist - total privileged), TPOTH (Other specialist - total privileged), HSPTL (Hospitalists Provide Care), FTEHSP (Hospitalists FTE), INTCAR (Intensivists provide care), FTEMSI (Intensivists FTE Medical-surgical intensive care), FTECIC (Intensivists FTE Cardiac intensive care), FTENIC (Intensivists FTE Neonatal care), FTEPIC (Intensivists FTE Pediatric intensive care), FTEOIC (Intensivists FTE Other intensive care), FTEINT (Intensivists FTE Total), APRN (Do Advanced practice nurses/PAs provide care for patients in your hospital?), FTAPRN (FT Advanced practice nurses), PTAPRN (PT Advanced practice nurses), FTEAPN (FTE Advanced practice nurses), FTPHRN (FT Physician assistants), PTPHRN (PT Physician assistants), FTEPHRN (FTE Physician assistants), APCAR (Primary care Advanced practice nurses/PAs),</p> |
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| | | <p> APEMER (Emergency department care Advanced practice nurses/PAs), APSPC (Other specialty care Advanced practice nurses/PAs), APED (Patient education Advanced practice nurses/PAs), APCASE (Case management Advanced practice nurses/PAs), APOTH (Other Advanced practice nurses/PAs), PAYTOTH (Hospital unit payroll expenses), PAYTOTLT (Nursing home payroll expenses), FTMDTF (Full-time physicians and dentists), FTRES (Full-time medical and dental residents and interns), FTTRAN84 (Full-time other trainees), FTRNTF (Full-time registered nurses), FTLPNTF (Full-time licensed practical or vocational nurses), FFAST (Full-time nursing assistive personnel), FTRAD (Full-time radiology technicians), FTLAB (Full-time laboratory technicians), FTPHR (Full-time pharmacists, licensed), FTPHT (Full-time pharmacy technicians), FTRESP (Full-time respiratory therapists), FTOTHTF (Full- time all other personnel), FTTOT (Full- time total personnel), PTMDTF (Part- time physicians and dentists), PTRES (Part-time medical and dental residents and interns), PTTRAN84 (Part-time other trainees), PTRNTF (Part-time registered nurses), PTLPNTF (Part-time licensed practical or vocational nurses), PTAST (Part-time nursing assistive personnel), PTRAD (Part-time radiology technicians), PTLAB (Part-time laboratory technicians), PTPHR (Part- time pharmacists, licensed), PTRESP (Part-time respiratory therapists), PTOTHTF (Part-time all other personnel), PTTOT (Part-time total personnel), FTTOTH (Total Full-time hospital unit personnel), PTTOTH (Total Part-time hospital unit personnel), FTTOTLT (Total Full-time nursing home personnel), PTTOTLT (Total Part-time nursing home personnel), FTED (Physicians and dentists FTE), FTER (Medical and dental residents FTE), FTET (Other trainees FTE), FTEN (Registered nurses FTE), FTEP (Licensed practical nurses FTE), FTEAP (Nursing assistive personnel FTE), FTERAD (Radiology </p> |
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| | | <p>technicians FTE), FTELAB (Laboratory technicians FTE), FTEPH (Pharmacists, licensed FTE), FTEPHT (Pharmacy technicians FTE), FTERESP (Respiratory therapists FTE), FTEO (All other personnel FTE), FTETF (Total facility personnel FTE), FTERNLT (Nursing home type unit/facility registered nurses FTE), FTEU (Nursing home personnel FTE), VMD (Physician and dentists- vacancies), VRES (Medical and dental residents/interns- vacancies), VTTRN (Other trainees - vacancies), VRN (Registered nurses - vacancies), VLPN (Licensed practical (vocational) nurses - vacancies), VAST (Nursing assistive personnel - vacancies), VRAD (Radiology technicians - vacancies), VLAB (Laboratory technicians - vacancies), VPHR (Pharmacists, licensed - vacancies), VPHT (Pharmacy technicians - vacancies), VRSP (Respiratory therapists - vacancies), VOTHL (All other personnel - vacancies), VTOTL (Total facility personnel - vacancies), VRNH (Nursing home type unit/facility registered nurses- vacancies), VTNH (Total nursing home type unit/facility personnel - vacancies), ERNFTE (Number of direct patient care RN FTEs), FTEMD (Full time equivalent physicians and dentists), FTERN (Full time equivalent registered nurses), FTELPN (Full time equivalent licensed practical or vocational nurses), FTERES (Full time equivalent medical and dental residents and interns), FTETRAN (Full time equivalent other trainees), FTETTRN (Full time equivalent total trainees), FTEOTH94 (Full time equivalent all other personnel), FTEH (Full time equivalent hospital unit total personnel), FTENH (Full time equivalent nursing home total personnel), FTE (Full time equivalent total personnel), TECAR (Primary care (general practitioner, general internal medicine, family practice, general pediatrics, obstetrics/gynecology, geriatrics) â total employed), TEMER (Emergency medicine - total employed), TEHSP (Hospitalist - total employed), TEINT (Intensivist - total employed), TEGST</p> |
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| | | <p>(Radiologists/pathologist/anesthesiologist - D.11.e.1. total employed), TEOTH (Other specialists - total employed), TETOT (Total - Total Employed), TCCAR (Primary care (general practitioner, general internal medicine, family practice, general pediatrics, obstetrics/gynecology, geriatrics) à total individual contract), TCMER (Emergency medicine - total individual contract), TCHSP (Hospitalist - total individual contract), TCINT (Intensivist - total individual contract), TCGST (Radiologists/pathologist/anesthesiologist - total individual contract), TCOTH (Other specialist - total individual contract), TCTOT (Total - individual contract), TGCAR (Primary care (general practitioner, general internal medicine, family practice, general pediatrics, obstetrics/gynecology, geriatrics) à total group contract), TGMER (Emergency medicine - total group contract), TGHSP (Hospitalist - total group contract), TGINT (Intensivist - total group contract), TGGST (Radiologists/pathologist/anesthesiologist - D.11.e.3. total group contract), TGOTH (Other specialist - total group contract), TGTOT (Total - total group contract), NECAR (Primary care (general practitioner, general internal medicine, family practice, general pediatrics, obstetrics/gynecology, geriatrics) à not employed or under contract), NEMER (Emergency medicine - not employed or under contract), NEHSP (Hospitalist - not employed or under contract), NEINT (Intensivist - not employed or under contract), NEGST (Radiologists/pathologist/anesthesiologist - D.11.e.4. not employed or under contract), NEOTH (Other specialist - not employed or under contract), NETOT (Total - not employed or under contract), TPMER (Emergency medicine - total privileged), TPHSP (Hospitalist - total privileged), TPINT (Intensivist - total privileged), TPGST (Radiologists/pathologist/anesthesiologist - D.11.e.5. total privileged), TPOTH (Other specialist - total privileged), TPRTOT (Total - total privileged),</p> |
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| | | <p>HSPTL (Hospitalists Provide Care), FTEHSP (Hospitalists FTE), INTCAR (Intensivists provide care), FTEMSI (Intensivists FTE Medical-surgical intensive care), FTECIC (Intensivists FTE Cardiac intensive care), FTENIC (Intensivists FTE Neonatal care), FTEPIC (Intensivists FTE Pediatric intensive care), FTEOIC (Intensivists FTE Other intensive care), FTEINT (Intensivists FTE Total), CLSOIC (Closed other intensive care), APRN (Do Advanced practice nurses/PAs provide care for patients in your hospital?), FTAPRN (FT Advanced practice nurses), PTAPRN (PT Advanced practice nurses), FTEAPN (FTE Advanced practice nurses), FTPHRN (FT Physician assistants), PTPHRN (PT Physician assistants), FTEPHRN (FTE Physician assistants), APCAR (Primary care Advanced practice nurses/PAs), APANES (Anesthesia services Advanced practice nurses/PAs), APEMER (Emergency department care Advanced practice nurses/PAs), APSPC (Other specialty care Advanced practice nurses/PAs), APED (Patient education Advanced practice nurses/PAs), APCASE (Case management Advanced practice nurses/PAs), APOTH (Other Advanced practice nurses/PAs)</p> |
| Supply | <p>GROUP, SUPPLY (Supplies purchased directly through distributor), CTSCNHOS (Computed-tomography (CT) scanner - hospital), EBCTHOS (Electron Beam Computed Tomography (EBCT) - hospital), MRIHOS (Magnetic resonance imaging (MRI) - hospital), MSCTHOS (Multislice spiral computed tomography < 64 slice - hospital), MSCTGHOS (Multislice spiral computed tomography 64 + slice - hospital), PETHOS (Positron emission tomography (PET) - hospital), ULTSNHOS (Ultrasound - hospital)</p> | <p>FTED (Does the hospital participate in a group purchasing agreement?), IMRIHOS (Intraoperative magnetic resonance imaging - hospital), MEGHOS (Magnetoencephalography (MEG) - hospital), PETCTHOS (Positron emission tomography/CT (PET/CT) - hospital), SUPEXA (Supply expense), PLNTA (Property, plant and equipment at cost), ASSNET (Net property, plant and equipment), PLNTA (Property, plant and equipment at cost), ADEPRA (Accumulated depreciation), ASSNET (Net property, plant and equipment)</p> |
| System | <p>SUBS (Does the hospital itself operate subsidiary corporations?), MNGT (Is the hospital contract managed?), SNT (Does your hospital provide services through one or more satellite facilities?), IPAHOS (Independent practice association - hospital), MEDHME (Does</p> | <p>DCOV (Days open during reporting period), FYR (Was the hospital in operation 12 full months to the end of the reporting period?), CNTRL (Control Code - type of authority responsible for establishing policy concerning overall operation of the hospital),</p> |

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| <p>your hospital have an established medical home program?), PEDHOS (General medical and surgical care (pediatric) - hospital), MSICHOS (Medical/surgical intensive care - hospital), CICHOS (Cardiac intensive care - hospital), NICHOS (Neonatal intensive care - hospital), NINTHOS (Neonatal intermediate care - hospital), PEDICHOS (Pediatric intensive care - hospital), SPCICHOS (Other special care - hospital), OTHIHOS (Other intensive care - hospital), REHABHOS (Physical rehabilitation care - hospital), ALCHHOS (Alcohol/drug abuse or dependency inpatient care - hospital), PSYHOS (Psychiatric care - hospital), ICFHOS (Intermediate nursing care - hospital), ACUHOS (Acute long-term care - hospital), OTHCRHOS (Other care - hospital), AIRBHOS (Airborne infection isolation room - hospital), ALCOPHOS (Alcohol/drug abuse or dependency outpatient services - hospital), AMBHOS (Ambulance services - hospital), BLDOHOS (Blood Donor Center - hospital), ACARDHOS (Adult cardiology services - hospital), PCARDHOS (Pediatric cardiology services - hospital), ADTCHOS (Adult cardiac surgery - hospital), ADTEHOS (Adult cardiac electrophysiology-hospital), CMNGTHOS (Case Management - hospital), CHTHHO, COMPHOS (Complementary and alternative medicine services - hospital), CAOSHOS (Computer assisted orthopedic surgery - hospital), CPREVVHOS (Crisis prevention - hospital), DENTSHOS (Dental services - hospital), PEMERHOS (Pediatric emergency department - hospital), FSERHOS (Freestanding/Satellite Emergency Department - hospital), ENBHOS (Enabling Services - hospital), ENDUOHOS (Endoscopic ultrasound - hospital), ENDORHOS (Endoscopic retrograde cholangiopancreatography (ERCP) - hospital), OPCENHOS (Freestanding outpatient center - hospital), HEMOHOS (Hemodialysis - hospital), AIDSSHOS (HIV-AIDS</p> | <p>RADMCHI (Does the hospital restrict admissions primarily to children?), NETWRK (Is the hospital a participant in a network?), PHYGP (Is hospital owned in whole or in part by physicians or a physician group?), MAPP1 (Accreditation by The Joint Commission), MAPP2 (Cancer program approved by American College of Surgeons), MAPP3 (Participating site recognized for one or more Accreditation Council for Graduate Medical Education accredited programs), MAPP5 (Medical school affiliation reported to American Medical Association), MAPP7 (Accreditation by Commission on Accreditation of Rehabilitation Facilities (CARF)), MAPP10 (Medicare certification by the U.S. Department of Health and Human Services), MAPP11 (Accreditation by Healthcare Facilities Accreditation Program (HFAP) of the American Osteopathic Association.), MAPP12 (Internship approved by American Osteopathic Association), MAPP13 (Residency approved by American Osteopathic Association), MAPP19 (Rural Referral Center), MAPP22 (Center for Improvement in Healthcare Quality accreditation), GPWWHOS (Group practice without walls - hospital), OPHOHOS (Open physician-hospital organization - hospital), CPHOHOS (Closed physician-hospital organization - hospital), MSOHOS (Management service organization - hospital), ISMHOS (Integrated salary model - hospital), EQMODHOS (Equity model - hospital), FOUNDHOS (Foundation - hospital), IPHMOHOS (Health maintenance organization (HMO) - C.107.a. hospital), IPPPOHOS (Preferred provider organization (PPO) - hospital), IPFEEHOS (Indemnity fee for service plan - hospital), HMO86 (Does the hospital have a formal written contract with an HMO?), HMOCON (Number of HMO contracts), PPO86 (Does the hospital have a formal written contract with a PPO?), PPOCON (Number of PPO contracts), CAPCON94 (Does the hospital contract directly with, employers or a coalition of</p> |
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| | <p>services - hospital), HOSPCOS (Hospice Program - hospital), OPHOSHOS (Hospital-based outpatient care center/services - hospital), ICARHOS (Indigent care clinic - hospital), LINGHOS (Linguistic/translation services - hospital), MOHSHOS (Mobile Health Services - hospital), NEROHOS (Neurological services - hospital), ONCOLHOS (Oncology services - hospital), ORTOHOS (Orthopedic services - hospital), PAINHOS (Pain Management Program - hospital), PALHOS (Palliative Care Program - hospital), IPALHOS (Inpatient palliative care unit - hospital), PCAHOS (Patient Controlled Analgesia - hospital), PATEDHOS (Patient education center - hospital), PATRPHOS (Patient representative services - hospital), PCDEPHOS (Primary care department - hospital), PSYCAHOS (Psychiatric child/adolescent services - hospital), PSYLSHOS (Psychiatric consultation/liaison services - hospital), PSYEDHOS (Psychiatric education services - hospital), PSYEMHOS (Psychiatric emergency services - hospital C.82.d.), PSYOPHOS (Psychiatric outpatient services - hospital), PSYPHHOS (Psychiatric partial hospitalization program - hospital), PSTRTHOS (Psychiatric residential treatment - hospital), SRADHOS (Stereotactic radiosurgery - hospital), ROBOHOS (Robotic surgery - hospital), SPORTHOS (Sports medicine -hospital), SUPPGHOS (Support groups -hospital), TISUHOS (Tissue transplant - hospital), OTOTHHOS (Other Transplant - hospital), TPORTHOS (Transportation to health services - hospital)</p> | <p>employers to, provide care on a capitated, predetermined or shared risk basis?), CAPCOV (Number of lives covered on a capitated basis), JNTPH (Does your hospital participate in any joint venture arrangements with physicians or physician groups?), JNLS (Limited Service Hospital), JNTAMB (Ambulatory Surgical Centers), JNTCTR (Imaging Centers), JNTLSC (Cardiac - Limited Service Hospital), JNTLSO (Orthopedic - Limited Service Hospital), JNTLSS (Surgical - Limited Service Hospital), JNTLST (Other - Limited Service Hospital), JNTTXT (Limited Service Hospital other description), JNTMD (Does hospital participate in joint venture arrangements with organizations other than physician groups?), BNDPAY (Does your hospital participate in a bundled payment program?), EHLTH (Does your hospital have an electronic health record?), NICBD (Neonatal intensive care beds), GENHOS (General medical and surgical care (adult) - hospital), OBHOS (Obstetrics care - hospital), BRNHOS (Burn care - hospital), SNHOS (Skilled nursing care - hospital), OTHLTHOS (Other long-term care - hospital), ADULTHOS (Adult day care program - hospital), AMBSHOS (Ambulatory surgery center - hospital), ASSTLHOS (Assisted living services - hospital), BWHTHOS (Bariatric/weight control services - hospital), BROOMHOS (Birthing room/LDR room/LDRP room - hospital), ACLABHOS (Adult diagnostic catheterization - hospital), PCLABHOS (Pediatric diagnostic catheterization - hospital), ICLABHOS (Adult interventional cardiac catheterization - hospital), PELABHOS (Pediatric interventional cardiac catheterization - hospital), PEDCSHOS (Pediatric cardiac surgery - hospital), PEDEHOS (Pediatric cardiac electrophysiology- hospital), CHABHOS (Cardiac Rehabilitation - hospital), CHTHHOS (Chemotherapy - hospital), COUTRHOS (Community outreach - hospital), CAOSHOS (Computer assisted orthopedic surgery - hospital), EMDEPHOS (Emergency Department - hospital), FSERYN (Is the</p> |
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| | | <p>department open 24 hours a day, 7 days a week?), TRAUMHOS (Certified trauma center - hospital), TRAUML90 (Level of trauma center), ENDOCHOS (Optical Colonoscopy-hospital), ENRHOS (Enrollment Assistance Program - hospital), GERSVHOS (Geriatric services - hospital), HLTHCHOS (Community Health Education - hospital), HOMEHHOS (Home health services - hospital), IMPRHOS (Immunization program - hospital), MEALSHOS (Meals on wheels - hospital), NUTRPHOS (Nutrition program - hospital), OPSRGHOS (Outpatient surgery - hospital), REDSHOS (Electrodiagnostic services - hospital), RHBOPHOS (Physical rehabilitation outpatient services -</p> <p>hospital), RPRSHOS (Prosthetic and orthotic services - hospital), PSYGRHOS (Psychiatric geriatric services - hospital), RURLHOS (Rural health clinic - hospital), SOCWKHOS (Social work services - hospital), SWBDHOS (Swing bed services - hospital), HARTHOS (Heart transplant - hospital), KDNYHOS (Kidney transplant - hospital), LIVRHOS (Liver transplant - hospital), LUNGHOS (Lung transplant - hospital), OTOTHHOS (Other Transplant - hospital), URGCCCHOS (Urgent care center - hospital), VOLSVHOS (Volunteer services department - hospital), WOMHCHOS (Women's health center/services - hospital), WMGTHOS (Wound Management Services - hospital), EXPTOT (Total facility expenses, excluding bad debt), EXPTHA (Hospital total expenses, excluding bad debt), EXPTLA (Nursing home expenses, excluding bad debt), CPPCT (What % of the hospital's net patient revenue is paid on a capitated basis?), CAPRSK (What % of the hospital's net patient revenue is paid on a shared risk basis?), CLSMSI (Closed medical surgical intensive care), CLSCIC (Closed cardiac intensive care), CLSNIC (Closed neonatal intensive care), CLSPIC (Closed pediatric</p> |
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| | | intensive care), CLSOIC (Closed other intensive care), CLSMCI (Closed medical surgical intensive care), CLSCIC (Closed cardiac intensive care), CLSNIC (Closed neonatal intensive care), CLSPIC (Closed pediatric intensive care). |
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† [dataset] American Hospital Association (AHA). *AHA Data and Insights*. AHA (2018). Accessed May 13, 2020. <https://www.ahadataviewer.com/about/hospital-database/>

Supplementary Figure S1. Yearly changes in county HMSPI scores between 2005 and 2014†



Abbreviation: HMSPI, Hospital Medical Surge Preparedness Index.

† Authors' analysis of 2005–2014 American Hospital Association,¹² US Census,¹³ and Dartmouth Atlas¹⁴ data.