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Introduction to the Second Special Issue on Injury Prevention

To All *IHS Provider* Readers:

As in the first special injury prevention issue of *The Provider* (July 2007), this second effort reflects the diversity of topics and disciplines in the field. Both intentional injuries (intimate partner violence, suicide) and unintentional injuries (motor vehicle crashes, burns) are included. Economics, epidemiology, law, criminology, and public health practice are some of the disciplines that contribute to our understanding of problems and approaches to prevention.

The overview of the IHS Injury Prevention Program by Hicks, et al, highlights four principles that guide activities at the national, regional, and local levels. The importance of reliable data for injury prevention is seen in the articles on economics and severe injury surveillance. Articles on injury prevention in a rural community, domestic violence, and an initiative to reduce motor vehicle injuries illustrate the principles of community-based interventions, capacity-building, and partnerships.

Many challenges remain in our efforts to reduce the burden of injuries in American Indian and Alaska Native communities. Especially in the realm of intentional injuries, there is a paucity of scientific studies documenting effective strategies for prevention. Even in the well-studied arena of motor vehicle crashes, epidemiologic data are lacking for the prevention of injuries in falls from pickup trucks, snowmobiles in Alaska, and crashes occurring on rural reservation roads. New challenges appear, such as methamphetamine-associated violence and injuries involving the increasingly popular all-terrain vehicles. Familiar challenges such as injuries associated with alcohol consumption, firearms, and impaired emotional health continue.

The articles in these two special issues of *The Provider* exemplify the dedication of individuals from throughout the country, and from many disciplines, to address these challenges. Their methods of analysis, approaches to intervention, and models for collaboration can inform the work of clinicians, community health advocates, and policy-makers.

For further information on the IHS Injury Prevention Program, contact Nancy Bill, IHS Injury Prevention Program Manager, at (301) 443-0105, or e-mail nancy.bill@ihs.gov.

Charles W. Grim, DDS, MHSA
Director, Indian Health Service
Assistant Surgeon General

Injury Prevention in Indian Country

Lawrence Berger, MD, MPH, Clinical Assistant Professor of Pediatrics at the University of New Mexico School of Medicine, volunteered to coordinate two special issues of *The IHS Provider* dedicated to Injury Prevention in Indian Country. This is the second; the first was published in July. Due to space limitations, two articles could not be included in this issue; they will be published next month. We wish to recognize Dr. Berger's initiative and hard work that made this project possible.

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Hardrock Chapter's Injury Prevention Program: Building Tribal Capacity in a Rural Navajo Community

Mary Robertson-Begay, *Hardrock Injury Prevention Coordinator, Hardrock Injury Prevention Program, Kykotsmovi, Arizona; Bernice Bert, Hardrock Injury Prevention Program Assistant, Kykotsmovi; Percy Deal, Hardrock Chapter President, Kykotsmovi; and Nancy M. Bill, IHS Injury Prevention Program Manager, Indian Health Service, Rockville, Maryland*

Disabling injuries and injury-related fatalities are among the leading public health issues faced by American Indian/Alaskan Natives communities. They are especially tragic in isolated rural communities, where a lack of medical and rehabilitation resources magnifies the impact of injuries, and close networks of families and neighbors share the suffering of individuals.

The Hardrock Chapter community is one such rural community. Hardrock is one of the thirty Indian Health Service (IHS) Tribal Injury Prevention Cooperative Agreement Program (TIPCAP) sites. The process that led Hardrock to receive IHS injury prevention funding is an interesting journey that inspired positive changes in the community. The community of Hardrock is a story of how a tribal community became empowered to make changes despite the overwhelming challenges of historical trauma, lack of resources, and political land disputes.¹

The community of Hardrock (*Tse Dildo' ii*) is located in northeast Arizona. It has a population of approximately 1,300 residents. The neighboring Piñon Chapter has 3,000 residents. The Hardrock Chapter is one of the 109 Navajo chapters represented by a delegate who serves on the Council of the Navajo Nation. Permission to publish this report was obtained from the Hardrock Chapter and the Hardrock Council on Substance Abuse.

Community crisis

Hardrock's history has been one of land disputes and relocations that led to decreases in population size and land base. Despite these challenges, Hardrock residents continue to be resilient in dealing with many of these obstacles. In 1995, Hardrock was experiencing an extraordinary number of injury-related deaths: 19 within a one-year period, including four suicides. The community held meetings to respond to the crisis. Mr. Percy Deal, Chapter President, led the community

in creating an action plan that included timelines and specific steps to address the underlying problems.

Community assessment

The first step was to assess the needs of the community, and to identify the key issues contributing to the crisis. The community sanctioned a group that became known as the Hardrock Council on Substance Abuse Prevention (HCOSA) to address these issues. HCOSA was comprised of community members from Hardrock, including the local minister. Faced with no resources, HCOSA searched for funding support from county, state, tribal, and federal agencies. HCOSA was successful in securing a mini-grant of \$15,000 from the IHS Injury Prevention Program (IPP). The funding allowed us to conduct a formal community assessment. Technical assistance was provided by the Native American Research and Training Center of the University of Arizona. Dr. Jennie Joe and her staff designed a questionnaire with community input, and provided training of community members to conduct interviews in both the English and Navajo languages. The community assessment involved 100 home visits over a four-month period. The final results were compiled in a report entitled "*Iina Ili*" ("Life is Valuable").² A major finding was that alcohol and substance abuse were undermining cultural and family values, and disrupting the family and social support systems. The "*Iina Ili*" report also documented community needs in the areas of job opportunities, education, health, housing, and emergency services (police, EMS, fire). The "*Iina Ili*" report was utilized by HCOSA to seek further resources for the community.

Hardrock Injury Prevention Program (HIPP)

HCOSA became incorporated as a non-profit agency in 1999. In 2000, HCOSA was awarded a five-year Tribal Injury Prevention Cooperative Agreement grant (2000 - 2005) from the national IHS IPP. A full-time Injury Prevention Coordinator was hired to develop the program. The Hardrock Chapter provided office space for the IPP within the Hardrock Chapter building. The Injury Prevention Coordinator reported on program planning and activities to both the HCOSA Board of Directors and Chapter officials. The current Board of Directors includes Percy Deal, Hardrock Chapter President and Navajo County Board of Supervisors; Larry T. Yazzie, Retired

Navajo Police Sergeant; Donald Howard, Retired School Counselor; Faith Jelle, Youth Pastor, ROCK Ministries; Germaine Simonson, MSW, University of Arizona; and Lucy Yazzie, parent and community member. HIPP staff have received certification as child passenger safety technicians and have completed injury prevention practitioner training (IHS Injury Prevention Levels I, II, and III courses).

Injury Prevention Activities

Partnerships with the county, law enforcement, schools, the senior citizen center, Head Start, and the Hopi Tribe helped establish prevention programs for the community. Monthly injury prevention activities were scheduled throughout the year. The child passenger safety program distributed 180 child safety car seats during the program's first four years. Additional child safety seats were obtained from state partners like the Intertribal Council of Arizona and the Arizona Governor's Office on Highway Safety. An incentive "buckle-up" program included observations of safety belt use, increased police enforcement, and rewards for people wearing safety belts. The rewards were given by police officers and consisted of coffee mugs with the HIPP logo and t-shirts designed by local students with "buckle-up" themes. The HIPP also conducted programs at after school and summer youth programs. These included presentations and hands-on activities, such as mock fire drills with firefighters from the Hopi Fire Department.

Because the response time of professional emergency services (EMS, police, firefighters) can be so long, and other services (such as social workers) so scarce, the HIPP has promoted training of local community members. Van drivers for senior citizens and bus drivers for children have been taught to recognize signs of high-risk situations, such as family conflicts or deteriorating living quarters. Preschool teachers have taken CPR classes. As part of their certification, home visitors for elder care have received instruction on fire prevention from the Hopi Fire Department.

The Hardrock Injury Prevention Program is unique in its integration of local customs and cultural values into program activities. The Hardrock Injury Prevention Program's theme is, "We think and live holistically." The Hardrock Injury Prevention staff is very diligent about ensuring that program activities are respectful of Navajo traditions and acceptable to the community. Public health terms need to be translated into the Navajo language, often by using descriptive phrases ("prevention of the body being harmed") rather than literal translations ("injury prevention"). Traditional Navajo customs are sometimes at odds with western public health injury prevention or health education practices.³ For example, referring to deaths and injuries to individuals is unspeakable. Instead, one can encourage occupant restraint use by explaining that seat belts and child safety seats are resources to answer traditional prayers for beauty, long life, and happiness. Respect for traditional lifestyles is also seen in the breadth of injury problems addressed. Many families raise livestock, for

example. Large animals can pose serious hazards, especially during procedures such as immunizations and branding. HCOSA and the HIPP therefore have helped provide modern corrals and devices ("squeeze shoots") to handle cattle and horses safely.

In 2005, the HIPP received a five-year (2005 - 2010) renewal of funding from the IHS TIPCAP. The funds allowed HIPP to expand the program coordinator position to full-time, and to hire a program assistant.

Mary Robertson-Begay, Hardrock Injury Prevention Coordinator, secured funding to participate in the national IHS Sleep Safe program. Sleep Safe is a joint IHS/US Fire Administration fire prevention program targeted at the Head Start age group.⁴ Fire prevention safety education was provided to the Head Start staff, parents, and children. Smoke alarms were installed at the homes of all Head Start children. Additional resources became available through the National Fire Protection Agency (NFPA), which provided nearly 2,000 smoke alarms. These resources made it possible for the fire safety program to be extended beyond Head Start, to the homes of elders, remote home sites, and homes in neighboring communities on both the Navajo Nation and the Hopi reservation.

The HIPP has received media coverage in the Navajo Nation's newspaper, the *Navajo Times*.⁵ HIPP staff have given presentations at tribal, state, and national meetings, and at international conferences. These have included the International Safe Community School Conference, Piñon Chapter Methamphetamine Conference, National Low Fuels Network Conference, and the Arizona Governor's Highway Safety summit. The HIPP sponsors an annual horse ride in support of the Rocky Ridge School's Red Ribbon week. This event draws attention to the destructive effects of drugs and alcohol. Each year, at least 15 riders participate.

Successes

Observational surveys have documented an increase in seat belt use from 6% (2003) to 64% (2007); and an increase in child safety seat use from 0% (2002) to 54% (2007).

Another achievement has been the smoke alarm project, in collaboration with the NFPA. Some 94% of homes in Hardrock now have two or more alarms in the homes; 80% of homes in the Piñon community (adjacent to Hardrock) have two or more smoke alarms in their homes. This compares to less than 2% of homes having a smoke alarm prior to the start of the program.

Also remarkable are the results of the community surveys. Whereas only 3% of families reported they knew of resources for family assistance in 1995, nearly three-quarters (73%) knew where to turn for help in 2006.

At the Hardrock Chapter, elements leading to successful tribal capacity building in injury prevention included 1) support and involvement of local leaders; 2) community endorsement of program activities; 3) a community vision; 4) sustained funding; and 5) long-term collaborations with

Navajo, Hopi, Federal and state agencies, an academic institution (University of Arizona), and non-profit organizations.⁶ These elements will continue to play a major role in Hardrock's future endeavors to achieve overall community safety and wellness.

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Acknowledgements

The authors are grateful to many individuals and agencies for their support and participation in the activities of the Hardrock Injury Prevention Program. Among them are the Hopi Resource Enforcement and Hopi Fire Department; Nichole Horseherder; Sharon Gamache, Executive Director of the Center for High Risk Outreach, NFPA; Captain Ronni Wauneka of the Navajo Police, Chinle, Arizona; and the Native American Research and Training Center, University of Arizona College of Public Health, Tucson.

Graduate Fellowships for Research Careers Available

Through funding provided by the IHS/NIH NARCH program, the Northwest NARCH has graduate fellowships available for American Indian/Alaska Native students who are enrolled in a health sciences graduate program or other biomedically-related field (medicine, dentistry, graduate nursing, medical informatics, etc.) that is oriented toward developing a research career. Successful applicants will receive

a stipend and support for other expenses related to pursuit of a career directed toward biomedical research. For further information and application forms, please contact Luella Azule at the Northwest Portland Area Indian Health Board by e-mail at lazule@npaihb.org; telephone (503) 228-4185. Scholarships are available for the academic year beginning fall, 2007.

Omission of the OB/GYN CCC Digest and the Child Health Notes

Space constraints have forced us to omit these two items this month. Readers are encouraged to view these important

resources on line. We will resume their publication, as space permits, with the next issue.

The Economic Burden of Injuries Involving American Indians and Alaska Natives: A Critical Need for Prevention

Neill F. Piland, DrPH, Research Professor, Institute of Rural Health, Idaho State University, Pocatello, Idaho; and Lawrence R. Berger, MD, MPH, Clinical Assistant Professor of Pediatrics, University of New Mexico, Albuquerque, New Mexico

Introduction

Information about the economic burden of injuries among American Indians and Alaska Natives (AI/AN) is vital for tribal leaders, IHS Area Directors, directors of Federal agencies, and members of Congress to make informed decisions. Via self-determination contracts and self-governance compacts, “approximately 54% of the IHS budget authority appropriation is administered by Tribes.”¹ Also, every Indian Health Service (IHS) Area conducts annual forums to recommend priorities for the overall IHS budget (the “budget formulation process”).² Congress authorizes appropriations not only for the Indian Health Service overall, but for specific initiatives, such as for diabetes reduction, suicide prevention, and the Violence Against Women Act (VAWA). In addition to morbidity and mortality statistics, the economic impact of various conditions is an important consideration in these budgetary decisions.

The Enormous Economic Burden of Injuries among AI/AN

For the year 2000, the lifetime costs from injuries to AI/AN was over \$2.1 billion (Table 1).³ This means that each year, over \$2 billion is withdrawn from health care and economic development resources that would have been available if the

Table 1. Lifetime costs of AI/AN injuries: All injuries and selected causes, 2000 (\$ millions)

	Medical costs	Productivity Loss	Administrative Costs	Total Costs
All Injuries	\$489	\$1,477	\$211	\$2,176
Motor Vehicles	285	610	83	978
Suicide	19	156	20	194
Falls	30	89	16	135
Homicides	16	94	19	129
Fires	19	30	7	56

injuries had not occurred. The data in Table 1 illustrate the lifetime impact of fatal and non-fatal injuries in several injury categories for injuries occurring in 2000. The societal cost burden of injuries to AI/AN includes annual medical care and rehabilitation costs; lost wages and productivity for victims and care-givers; and administrative costs, such as insurance, legal, workplace training, and other costs accruing to worker injuries. Even this dramatic statistic does not include all the relevant direct and indirect costs that might be captured in a complete accounting of economic burden (Table 2).

Table 2. Direct and Indirect Costs of Injury

Direct costs:
<ul style="list-style-type: none"> • Pre-hospital emergency care: EMTs, ambulance, and flight services • Medical care: physician services; emergency room visits; medications • Mental health care • Dental care • Inpatient hospital care: initial and follow-up • Ambulatory Care • Disability and rehabilitation care: physical and occupational therapy; speech and hearing therapy; vocational rehabilitation • Home modifications, wheelchairs, and appliances • Long-term care: nursing home/home health care • Administrative Costs • Property damage • Law enforcement, legal, court costs • Welfare, human services, foster care • Morgue, mortuary, funeral, and medical examiner costs
Indirect costs:
<ul style="list-style-type: none"> • Value of lifetime earnings lost (fatalities) • Value of goods and services not produced because of injury-related illness and disability • Consumption foregone from reduced long- and short-run income • Value of time, production and consumption foregone by family during the care of injury victims • Value of reduced earnings stemming from early termination of education or training for injury victim or for family member care of injury victim • Impact of indirect costs on economic development: consumption, production, and human capital • Pain and suffering

Motor vehicle-related injuries accounted for 45% of the total

lifetime costs and 58% of the lifetime medical costs (Table 1). While suicides/suicide attempts, falls, and homicides were leading injury causes in all of the cost-categories in 2000, fire-related injuries exceeded suicide and homicide in lifetime medical costs (\$19.4 million versus \$18.7 million and \$16.3 million, respectively).

The AI/AN lifetime costs of medical treatment for injuries (\$489 million) represents 22% of the total lifetime costs. This corresponds very closely to national estimates of the economic burden of injuries, where the estimated total lifetime costs were \$406 billion, with \$80 billion (20%) for medical treatment.^{4,5} Of course, the percentages can vary greatly for specific types of injuries. Health care expenses account for 70% of the costs of intimate partner violence against US adult women, for example.⁶

IHS direct care and contract care for the treatment of injury equals \$349 million per year (2001). This estimate was obtained as follows:

- 7,358 hospital discharges (1997) x \$13,867 (cost per case, adjusted for inflation) = \$102,033,386
- 353,398 ambulatory visits (1997) x \$699 (Contract Health Services cost per case, adjusted) = \$247,025,202.
- Total = \$349,058,588.

For AI/AN, 40% of the Years of Potential Life Lost (YPLL) Before Age 65 Is Due to Injuries⁷

YPLL is the foundation for calculating the reduction in productivity and loss of income resulting from premature deaths. The high rates of injury mortality described elsewhere in this issue (Wallace, et al) translate into large numbers of YPLL, a measure of the impact of specific conditions on shortening the life span of individuals. Unintentional injuries account for 28% of YPLL before 65; intentional injuries account for 12%. The two next leading causes, heart disease and cancer, each contribute 8% (Table 3). The extraordinarily high proportion of YPLL accounted for by injuries results because of the disproportionate loss of life from injuries in younger age groups.

Table 3. Percent of YPLL before age 65 by cause of death AI/AN 2000 - 2004

Unintentional Injury	28%
Heart Disease	8%
Cancer	8%
Suicide	7%
Perinatal Period	6%
Liver Disease	5%
Homicide	5%
Congenital Anomalies	4%
Diabetes Mellitus	2%
Influenza & Pneumonia	2%
All Others	25%
All injuries	40%
All Causes	100%

Treatment of Injury is the Single Largest Expenditure for IHS CHS Funds

The Contract Health Services (CHS) program provides funds to purchase health care services for eligible AI/AN when those services are not available through IHS direct or tribal services. The 2002 CHS expenditure for care of injuries and poisonings was roughly \$54.3 million (Table 4). The average cost for each hospitalized (inpatient) injury victim in 2002 was \$14,378; the average outpatient cost per patient was \$752. CHS accounts for about 23% of IHS personal health care benefit expenditures. IHS reports that 17% of all CHS expenses for inpatient care, and 16%

Table 4. IHS CHS average annual expenses for treatment of injuries and poisonings, 2002

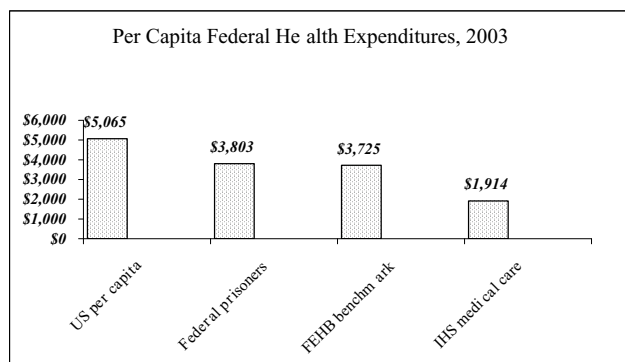
Category	Annual Expense	Average Annual Expense per case
Inpatient	\$41,063,269	\$14,378
Outpatient	\$13,200,209	\$752
TOTAL	\$54,263,478	

for outpatient care were for the care of injuries and poisonings.⁸

Economic Impact of Injuries Greatly Magnified Because Funding for the Health Care of AI/AN Individuals is Severely Limited

In its 2003 report, "*A Quiet Crisis: Federal Funding and Unmet Needs in Indian Country*," the US Commission on Civil Rights reported that the "IHS spends less on its service users than the government spends on any other group receiving public health care." On a per person basis, IHS medical expenditures were 50 percent less than expenditures by the Federal Employee Health Benefit (FEHB) insurance plan; and 60% less than the average for the US population as a whole. Even per capita expenditures for Federal prisoners were twice as high as for individual IHS users (\$3,803 vs. \$1,914, respectively) (Figure 1). The report also noted that "real spending per Native American, after adjusting for inflation and population growth, has fallen over time, despite

Figure 1. Per capita federal health expenditures 2003



funding increases.”⁹

Economic Costs of Injuries Consume Scarce Resources that Could Be Used to Advance Other Important Community Goals and Strains the Ability of AI/AN Individuals to Receive the Treatments and Medical Care They Need

The inadequacy of available resources for treatment of AI/AN is perhaps most obvious in CHS. Because CHS funding is woefully inadequate, tribes are forced to use a priority system to determine who will receive what care, when.¹⁰ A 2004 report by the US Commission on Civil Rights revealed that:

“The severe under-funding of CHS (contract health service) programs causes IHS to ration health services.” Because of insufficient funds, most areas can only pay for care when there is an “immediate threat to life, limb, or senses (emergent/acutely urgent care services) . . . In recent years, the denial of CHS payments has increased more than 75 percent from 1998 . . . The rationing of health care leads to the denial or delay of treatment, and compels patients to accept cheaper and less effective treatment interventions or to go without care.”¹¹

Implementing Effective Injury Preventive Strategies Can Result in Enormous Savings

An economic analysis of 84 injury prevention measures revealed that more than half yielded net societal cost savings.¹² Table 5 illustrates the magnitude of injury reduction from selected interventions.¹³ An expected 45% reduction in the risk of death in a motor vehicle crash when lap/shoulder belts are worn is a dramatic effect. From an economic perspective, it is particularly impressive in that the cost savings from avoiding a single motor vehicle fatality is between \$1 million (“Human capital/production loss” model) and more than \$3.5 million (“Comprehensive/Willingness-to-pay” model).¹⁴ The average lifetime medical costs for a victim with a traumatic brain injury is \$6.8 million.⁵ First-year expenses for the care of a spinal cord injury victim range from \$200,000 - \$700,000.¹⁵

Table 5. Effectiveness of selected injury prevention interventions

Intervention	Effectiveness
Lap/shoulder seat belts	45% reduction in fatalities
Motorcycle helmets	72% effective in reducing head injury
Child safety seat laws	35% reduction in fatal injuries
Smoke alarms	40-50% reduction in fire mortality rate
Sobriety checkpoints	18-22% reduction in crashes involving alcohol
Fall prevention interventions	19-43% reduction in average number of falls

Cost-outcome analyses of five programs to reduce injuries among AI/AN yielded the results shown in Table 6.¹⁶ The benefit-cost ratio ranged from 1.7 for a livestock control project in Arizona to 2,592 for a drowning prevention program in Alaska. The annualized cost of running the safety-belt initiative at the Navajo Nation, for example, was \$44,600; the annual cost savings were \$11.4 million per year; and the resulting benefit-cost ratio was 256.

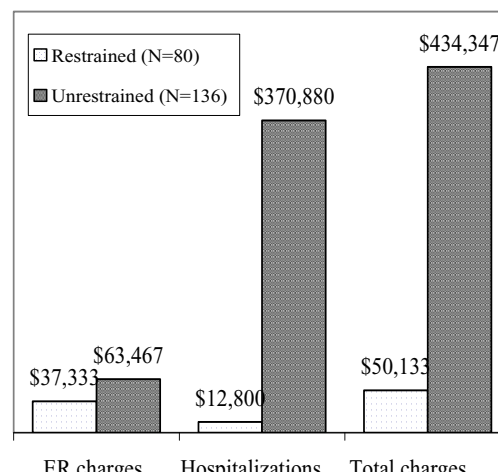
The cost-effectiveness of seat belt use was demonstrated at the W.W. Hastings Hospital, an IHS facility in Tahlequa,

Oklahoma. The average medical charge in 1994 for the treatment of a motor vehicle crash victim who was unrestrained was five times greater than the average charge for each victim who had been wearing a seat belt or sitting in a child safety seat (\$2,305 versus \$470). The total charges for treatment of all unrestrained patients was almost nine times higher than the total for restrained patients (\$434,347 vs. \$50,133) (Figure 2).¹⁷

Table 6. Cost-outcome analyses of five injury prevention efforts in AI/AN jurisdictions

Intervention	Site	Benefit-cost ratio
Float-coat drowning prevention	Yukon Kuskokwim Health Corporation	2592
Primary safety-belt law	Navajo Nation	256
Suicide prevention	Western Athabaskan tribe	43
Streetlight project	White Mountain Apache	10
Roadway livestock control	White Mountain Apache	1.7

Figure 2. Annualized cost of motor vehicle injuries by restraint status, W. W. Hastings Hospital, 1994



Identifying the Economic Costs of Injuries Can Help Communities Prioritize Their Injury Prevention Efforts and Justify Funding Proposals.

A study of direct medical expenditures for injury-related hospitalizations by an Alaska Native (AN) health system revealed a number of surprises.¹⁸ The total expenditure by the local health system for the 511 injuries resulting in hospitalizations from 1994 - 1998 was \$4,145,440. Injuries caused by acts of violence, suicide attempts, and falls had the highest overall expenditures. On a per-victim basis, unintentional injuries involving the use of firearms and snowmobile/all-terrain vehicle injuries were the most expensive (Table 7).

One tribe in Arizona applied for \$375,000 for a road improvement project using the cost-benefit calculation in Table 8, based on a ten-year service period. Crash reduction factors were estimated based on roadway engineering publications.^{19,21} The per-event costs and capital recovery factor were specified by the funding agency. The comprehensive lifetime costs per fatality, for example, were \$2.6 million (1994) (\$1.6 million higher than “human capital” estimate above) because monetary values were assigned to pain and lost quality of life.²²

Table 7. Injury hospitalizations involving members of an Alaska Native Health Corporation, 1994-1998

Cause	Number (%)	Per Victim	Expenditures by TCC
Suicide attempt	143 (28)	\$4,580	\$655,000
Fall	91 (18)	\$7,164	\$652,000
Violent act	80 (16)	\$10,200	\$816,000
Motor vehicle	52 (10)	\$11,538	\$600,000
Miscellaneous other causes	32 (6)	\$8,057	\$282,000
Snowmobile/ATV	30 (6)	\$16,933	\$508,000
Unintentional poisoning	30 (6)	\$4,733	\$142,000
Sports/recreation	25 (5)	\$5,400	\$135,000
Environmental hazard	16 (3)	\$9,313	\$149,000
Firearm	12 (2)	\$17,250	\$207,000
TOTAL	511 (100)	\$8,112	\$4,145,000

Table 8. Road project cost-benefit calculation

<p>A. Project costs = “Present worth” = Construction cost x capital recovery factor = \$370,834 x 0.149 = \$55,254</p>
<p>B. Annual benefits = Monetary total of all crash savings = \$3,237,600</p> <p>Crash savings = Crash events avoided x per event costs</p> <p>Crash events avoided = Annual number of crash events before the proposed project – projected number of annual crash events after the project (including projected changes in traffic volume)</p> <p>Projected number of annual crash events after project = Annual number of events x crash reduction factor</p> <p>Per event costs:</p> <ul style="list-style-type: none"> \$2.6 million/fatal event \$180,000/incapacitating injury \$36,000/evident injury \$19,000/injury possible \$2,000/property damage only
<p>C. Cost benefit ratio = Annual benefit/Present worth = \$3,237,600/\$55,254 = 58.6</p>

At the community level, even simplified estimates of injury costs can be valuable. Table 9 provides the average length of stay and average medical charges for hospitalizations,²³ ER visits,²⁴ and ambulance transports⁵ in the United States for 2005. Here are two examples of how the data can be used to estimate costs of injuries:

- Last year, there were five ATV riders hospitalized with injuries; 30 riders treated in the emergency room; and one person who died (he was not wearing a helmet). A very conservative estimate of the short-term medical cost of these ATV injuries would be:
 - 5 hospitalized riders x \$22,300/hospitalization = \$111,500

- 40 riders treated in the ER x \$620/ER visit = \$24,800
- One death x \$1 million/motor vehicle crash death = \$1 million
- Total costs = \$1,136,300
- For an individual victim transported by ambulance, treated in the ER, and then hospitalized for three days, the estimated medical charges would be \$274 + \$620 + (\$4,847 x 3 days) = \$15,435

Table 9. Average medical charges and length of stay, all diagnoses, United States, 2005*

Item	U.S. Average
Total hospital charges	\$22,299
Length of hospital stay, days	4.6 days
Hospital charges per day	\$4,847
Ambulance transport, one way	\$274
Emergency room (ER) visit	\$620

These calculations greatly underestimate the true total cost of these ATV injuries because they do not include many of the items in Table 2 (such as long-term medical costs, administrative costs, and productivity losses of survivors); for the fatality, use the lower estimate of lifetime costs (\$1 million) based on the human capital/production loss model referred to above under “Implementing effective strategies,” and do not reflect more recent (2007) national medical care costs or injury-specific cost averages.

Funding for the Prevention of Injuries is Woefully Inadequate

For the past seven years (2000 - 2006), the budget for the IHS Injury Prevention program has averaged \$1.8 million per year. Beginning in FY 2007, Congress appropriated an additional \$1 million per year, primarily for direct support of tribal IP programs (OEHE, personal communication). Compared to the cost of injuries, the IHS Injury Prevention Program’s annual budget of \$2.8 million is equivalent to 0.1% of the lifetime costs of injuries for one year (2000) or 0.6% of injury-related medical costs.

Great Need for More and Improved Economic Data Regarding Injuries and AI/AN

Estimates regarding the cost of injuries vary by who bears the economic burden: individuals, tribes, the Federal government, or society as a whole. There is a great need for uniform, accurate coding — and more complete reporting — of injuries, especially at the local level. Often, for example, discharge summaries, E-codes, and other vital diagnostic information are not received from contract health care providers. Even in the absence of improved data, however, the “bottom line” is obvious: only increased efforts at prevention can reduce the severe economic burden of injuries in AI/AN communities.

Readers interested in the methods and assumptions used to calculate the cost estimates in this paper can refer to the original report prepared for the National Tribal Injury Prevention Steering Committee.³

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Public Health Practice and the IHS Injury Prevention Program: Guiding Principles

Kenny R. Hicks, RS, MPH, Area Injury Prevention Specialist, Phoenix Area Indian Health Service, Phoenix, Arizona; Robert Morones, RS, District Injury Prevention Specialist, Western Arizona District OEHE, Tempe, Arizona; L.J. David Wallace, MSEH, Injury Prevention Specialist, Motor Vehicle Injury Prevention Team, Division of Unintentional Injury Prevention, National Center for Injury Prevention and Control, Centers for Disease Control and Prevention Atlanta, Georgia; and Nancy M. Bill, MPH, CHES, Injury Prevention Manager, IHS, Rockville, Maryland

Introduction

Injury is a leading cause of death and disability for American Indian and Alaska Native (AI/AN) communities. Overall, unintentional injury is the third leading cause of death among AI/ANs, and suicide and homicide are among the top ten causes of death. Injuries and violence are especially a burden for the young AI/AN population, accounting for 75% of all deaths among those ages 1-19.¹ Unintentional injury, suicide, and homicide are respectively the top three killers among AI/AN 1-44 years old, accounting for 54% of all deaths. Injuries cause more deaths among American Indians and Alaska Natives 1-44 years of age than all other causes combined.² In terms of years of potential life lost (YPLL), unintentional injuries account for more YPLL among AI/AN than heart disease, cancer, and diabetes combined.³

The IHS Injury Prevention Program (IPP) within the Division of Environmental Health, Office of Environmental Health and Engineering (OEHE), has evolved over the past three decades from a primarily education-based program to a comprehensive, evidence-based prevention program based on proven public health strategies. Several public health models, including the Haddon Matrix (pre-event/event/post-event; host/agenda/environment) and the CDC's National Center for Injury Prevention's "Public Health Approach" (Figure 1) have influenced the development of the IPP.⁴ The current IHS Injury Prevention Program, however, is best characterized by four guiding principles: proven or best practice community-based prevention strategies, reliable injury surveillance data, building tribal capacity, and fostering collaborative partnerships (Figure 2).

Community-Based Prevention Strategies

The central focus of the IHS Injury Prevention Program is the

Figure 1. Public health approach

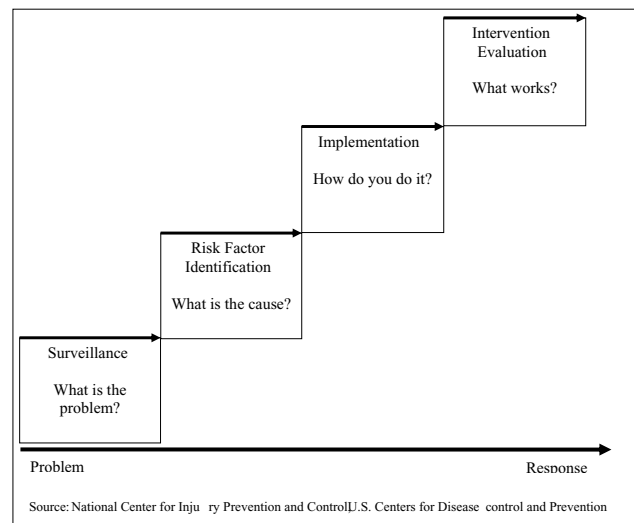
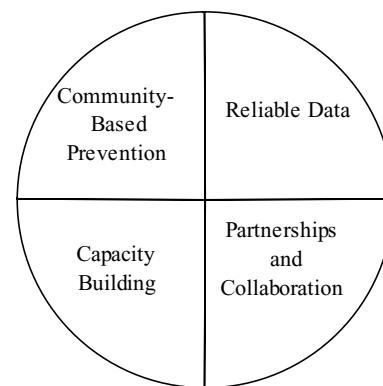


Figure 2. Guiding Principles of the IHS Injury Prevention Program



implementation of community-based prevention strategies that are evidence-based or "best practices." Dr. Fred Rivara of the Harborview Injury Prevention Research Center has said "the reason for this focus on effective strategies is straightforward: Because staff time and resources are always limited, efforts should be used for those injury prevention strategies that have been evaluated and shown to be effective."⁵ Table 1 summarizes injury

Table 1. Recommended Strategies to Reduce Injury

<i>Mechanism/Type of Injury</i>	<i>Strategies</i>	<i>Key Findings</i>	<i>References</i>
Motor Vehicle Occupants			
Increase Use of Child Safety Seats	Mandatory use laws	Strong evidence. Laws decreased fatal injuries by 35%, but need to be enforced.	17, 18, 19, 20
	Community-wide information + enhanced enforcement campaigns such as checkpoints, saturation patrols	Sufficient evidence. Child safety seat use increased on average 12%. Added benefit of may increase detection of DUI or other offenses.	17, 18, 19, 20
	Distribution of child safety seats + education programs	Strong evidence. Increased use of child safety seats by 23%.	17, 18, 19, 20
Increase Use of Safety Belts	Mandatory use laws	Strong evidence. Laws increased safety belt use by 33% compared to states with nolaw. Primary enforcement laws on average increase safety belt use by 14% compared to Secondary laws.	18, 19, 20, 21
	Enhanced enforcement programs	Strong evidence. Enhanced enforcement, such as “Click it or Ticket” campaigns increased safety belt use on average by 16 percentage points. Added benefit of may increase detection of DU I or other offenses.	18, 19, 20, 21
Protect Young Drivers	Graduated driver licensing systems	Strong evidence. Median decrease in young driver crash rates in the first year was 31%	20, 22
	Nighttime driving restriction curfews	Most fatal nighttime crashes among young drivers occur between 9 PM and midnight. Several studies from the US and Canada have found that ordinances that restrict unsupervised teen driving at night resulted in reducing teen driver fatalities by about 25%.	22
Reduce Alcohol-Impaired Driving	0.08% blood alcohol concentration (BAC) laws	Strong evidence. States that lowered their BAC laws from 0.1% to 0.08% saw a median decrease in alcohol-related fatal motor vehicle crashes of 7 %.	18, 19, 20, 23
	Zero tolerance laws for minors	Sufficient evidence. Lower BAC limits for young and inexperienced drivers has been shown to reduce crash rates.	18, 19, 20, 22, 23
	Sobriety checkpoints	Strong evidence. Proven effective in reducing alcohol-related crashes and deaths by approximately 17-25%. Recommended to be a part of all police enforcement programs.	18, 19, 20, 22, 23
	School-based programs	Recommended to reduce riding with a drinking driver, but insufficient evidence to determine if effective in reducing alcohol-impaired driving.	19, 20
	Mass media campaigns to reduce alcohol-impaired driving	Strong evidence. Studies have found robust mass media campaigns to reduce alcohol-related crash rates by about 13%.	19, 20
	Designated driver programs	In sufficient evidence to determine effectiveness	19, 20
Fire and Burns			
Reduce residential fire deaths/injuries	Install smoke alarms	Effective strategy. Researchers have found that having a working smoke alarm in the home reduced the risk of death from a house fire by as much as 71%. Research conducted in Native American homes recommended installing photoelectric alarms in place of ionization alarms to prevent nuisance alarms.	24, 25, 26
	Smoke alarm distribution + education and media campaigns	Effective strategy. Mallonee and others found that fire injury rates were reduced by up to 80% after targeting high risk neighborhoods with smoke alarm distribution combined with an education and media campaign.	24, 27
Reduce thermal burns	Reduce hot water temperatures to 120 degrees F or less	Legislation and ordinances to require hot water heaters be preset at 120 degrees F has proven to be the most effective in reducing scald burns to young children and older adults. Media campaigns and home visits are also effective in getting homeowners to measure and reduce hot water temperatures to 120 degrees F. Educational campaigns alone have not been effective.	24, 29
Drowning			
Reduce drowning in natural bodies of water	Programs to promote wearing of personal flotation devices (PFDs), flotation coats	PFD and float coat education and distribution programs are promising strategies to increase the use of these safety devices in Alaska Native villages.	24, 29, 30
Reduce swimming pool drowning	Install 4-sided fencing around pools	Installing four-sided isolation fencing around swimming pools is a proven effective strategy in preventing drowning among children from birth to 5 years.	24, 30
Falls			
Prevent falls among older adults	Exercise programs to improve balance, leg strength, and endurance	Exercise programs for older adults have been shown to reduce the risk of falls by 12% and mean number of falls by 19%. The most effective programs have targeted balance, leg strength, gait training, and strength building.	31

Table 1. cont.

	Clinical assessment and fall risk reduction	Individual patient assessment of fall risk factors combined with strategies to reduce those risks have been shown to reduce the risk of falls by 18%.	31
	Medication management	Studies have shown that reviewing and modifying medications that are known to increase the risk of falls, such as benzodiazepines, antidepressants, etc., have been shown to reduce fall rates. These programs have been more effective when combined with other strategies, such as risk factor screening, exercise programs, and home assessment.	31, 32
Violence			
Reduce child maltreatment	Early childhood home visitation programs	Strong evidence. Early home visitation for new mothers is a proven effective strategy to reduce child abuse and neglect in young children. Researchers have found a 39% to 80% reduction in reported child abuse and neglect among children who received the home visit intervention vs. controls.	33, 34, 35, 37
Reduce suicide	Physician education in depression recognition and treatment	Effective strategy. A majority of older adults who die by suicide are seen by a primary care physician in the last few months of life. Physician education in depression recognition and treatment is an effective strategy to prevent suicides.	36, 38
	Restrict access to lethal means	Researchers have found that having firearms in the home increases the risk of suicide by up to 4 times for all ages, and 10 times for youth. Restricting access to firearms for youth especially is a promising strategy to prevent suicides.	24, 36, 38
	Increasing protective factors such as discussion of problems with relatives and friends, building self-esteem, and increasing problem solving skills.	The Zuni Life Skills Development program has shown promising results in reducing suicide rates among American Indian/Alaska Native youth by focusing on increasing protective factors and reducing known risk factors for high school aged youth.	38, 39, 40

prevention interventions that have rigorously-demonstrated effectiveness or are at least considered promising. Knowledge of these interventions, however, is not enough for their successful implementation in AI/AN communities. Interventions must be tailored for each community. Successful implementation of effective strategies tailored to each AI/AN community involves important considerations, including the following:

1. Every community has unique cultural, political, and historical factors that must be recognized and respected.^{6, 7, 8}
2. Tribes are sovereign nations. Tribal entities must be involved in all stages of program planning and implementation.
3. Priorities for intervention need to be based on reliable injury data, feasibility, and the expressed concerns of the community.

Another important guideline for implementing community-based interventions is utilizing multiple strategies where possible. Because there are multiple factors that contribute to an injury event and injury severity, we advocate that an intervention employ the "3Es" model. This model involves three intervention approaches:

- *Education* to raise awareness of injury risks, encourage behavior changes, and to inform policy makers so they have the knowledge for more informed decisions
- *Enforcement* of legal requirements and prohibitions to reduce risk; policy development
- *Engineering* (or Environmental Modification) to create a safer environment or safer consumer products.⁴

The basic premise of the 3-Es model is that an intervention

utilizing a combination of these approaches produces results superior to an intervention employing only one approach. For example, a community-based program focused to reduce motor vehicle crash (MVC) injuries might ideally include:

- Education approaches to encourage occupant restraint use and inform policy makers of community specific MVC risk factors and intervention strategies
- Enforcement approaches involving the enactment and enforcement of key traffic safety laws that require occupant restraint use and prohibit drinking and driving
- Engineering of community roads to ensure they are sufficiently designed and maintained to minimize crash risk.

The CDC-funded motor vehicle prevention program at the San Carlos Apache Tribe is a superb example of a community-led program employing effective strategies (sobriety checkpoints, strengthening traffic safety laws), education (primarily through mass media), and enforcement.^{9, 10}

Reliable Data

Reliable data are vital to drive decisions for the development of a targeted, community-based injury prevention program. Data help identify the distribution and determinants of injuries in a community; provide insight into the knowledge, attitudes, and perceptions of community members about specific topics and approaches; enable evaluation of intervention strategies; and support efforts to fund, sustain, and enhance successful interventions. The IPP employs several strategies to help tribes

describe the magnitude of the injury problem and identify injury trends in their community.

National sources for AI/AN injury data include IHS Headquarters, the Centers for Disease Control and Prevention, and other injury data sources where AI/AN populations are identified. IHS Headquarters' publications, such as the *Indian Health Focus – Injuries 2000-2001*, *Trends in Indian Health*, and *Regional Differences in Indian Health* are useful in providing a basic description of injuries nationally and for each IHS Area. The CDC's Web-based Injury Statistics Query and Reporting System (WISQARS) is an interactive database system we use to provide customized reports of AI/AN injury-related data and make comparisons to other US races.²

National data resources are useful in describing the magnitude of injury among AI/ANs and to track trends, but are limited to large sub-groups of the AI/AN population such as IHS Areas or states. As a result, the IHS IPP works with tribes and tribal organizations to gather local data that are representative of specific AI/AN communities. Following a 1985 consultation from injury prevention epidemiologist Leon S. Robertson, PhD, of Yale University, the IHS Injury Prevention Program embarked on the enormous and ongoing task of establishing injury surveillance systems in AI/AN communities.¹⁰ IHS Environmental Health Officers and Injury Prevention Coordinators are generally responsible for local injury surveillance systems that involve the review of health care data (i.e., ED logs, medical records, contract health billing records, ambulance services). These data are also often supplemented by reports from police departments, state vital statistics, injury site investigations, and other sources. The data are summarized by IHS and used by IHS and the tribes to better understand the leading causes of injury in communities; compare the burden of injury to other health priorities; and plan targeted interventions. At the request of, and in partnership with, tribes, we have conducted numerous special injury epidemiologic studies to understand injury problems in greater detail. Many of these studies have been conducted by participants in the IHS Fellowship program.¹¹ These studies have provided detailed analysis and intervention recommendations to address many types of injury, including motor vehicle crashes (including pedestrian), falls, drowning, fires/burns, suicide, and assault.

An emerging data collection strategy of our program involves the collection of quantitative data. The IHS IP program staff in collaboration with tribes has conducted focus groups, key informant interviews, and community surveys that are fundamental to tailoring programs/interventions to the community.

Capacity Building

One of the core objectives of the IPP is to build capacity within tribal communities to effectively address the issue of injury. Capacity building involves initiatives to foster tribal ownership of injury prevention programs, from identifying priorities to implementing and evaluating injury prevention initiatives. Capacity building efforts focus on 1) training to increase injury prevention skills among IHS and tribal public health practitioners, policy makers, and community advocates; 2) funding to implement

community-based intervention programs; and 3) providing expert technical assistance to tribes in injury prevention program development, implementation, and evaluation.

Training. The IPP includes a comprehensive Injury Prevention training program that offers a broad set of courses for varied levels of experience and injury topics. Our curriculum includes three, one-week short courses that gradually build on one another across seven core injury prevention topics: public health approach to injury prevention, program design and implementation, coalitions and collaborations, program evaluation, injury data, marketing and advocacy, and program management. These short courses, designed and taught by IHS and tribal injury prevention staff, are intended to build practical injury prevention skills for the diverse group of persons working and living in tribal communities.

We offer a year-long injury prevention fellowship program for advanced training. The fellowship program currently has two tracks: an epidemiology track geared to conduct community-based injury studies and a program development track geared to implement community-based interventions and programs. Over 200 IHS and tribal persons have graduated from the fellowship since it began in 1987.¹² We also offer targeted training in topics such as child passenger safety, grant writing, program evaluation, and intentional injuries.⁹⁵ The Safe Native American Passengers (SNAP) course is an excellent example of the IPP recognizing the need for more focused training on Child Passenger Safety (CPS). SNAP delivers culturally-appropriate CPS education to affect the knowledge, attitudes, and practices of those responsible for transporting children in motor vehicles.

Funding IP Initiatives. Securing sufficient funding to implement community-based injury prevention programs and interventions is critical to successful capacity building. The most significant source of IHS funds for developing the capacity of AI/AN tribes and tribal organizations is the IHS Tribal Injury Prevention Cooperative Agreement Program (TIPCAP). Initiated in 1997, TIPCAP provides varying levels of funding to tribes to facilitate injury prevention program development, implement interventions, and conduct injury prevention conference activities. Over the past decade approximately \$13.4 million has been awarded to 51 tribes/tribal organizations to develop community-based injury prevention programs, including the employment of a full-time tribal injury prevention coordinator. Currently there are 32 TIPCAP-supported tribal injury prevention programs ranging in funding from \$50K-\$75K per year for the 2005-2010 award cycle.¹³

IHS IPP funds also support targeted intervention initiatives. Two examples are the Sleep Safe and Ride Safe Programs that address childhood fire burn injury and child passenger safety, respectively, in AI/AN communities. Since 1999, these programs have resulted in the distribution of over 20,000 smoke alarms and over 3,500 child safety seats. Several other targeted injury topics (e.g., suicide, falls, impaired driving) are addressed through mini-project programs funded by Area Injury Prevention Programs.^{14,15}

Technical assistance. The most valuable resource the OEHE

program has to offer tribes is the time and expertise of its staff. OEHE field staff serves as the primary injury prevention advisors to tribes. They are supported by the IPP at the District, Area, and national levels. They provide technical assistance to tribes in IP program planning, implementation, and evaluation. Staff also play a critical role in assisting tribes in obtaining external funding for intervention projects and programs. For example, in 2006, the Phoenix Area IPP assisted tribes in obtaining over \$600,000 from funding sources outside of IHS to develop community-based IP programs.

The IPP has also provided technical assistance to tribes through contracts with external consultants. The experience of injury prevention experts from the University of North Carolina in providing technical assistance to tribes with TIPCAP programs, for example, has been described in the July 2007 issue of *The Provider*.

Partnership Building

One of the many ways the IPP achieves success is through strong partnerships and collaborations with other entities. Maintaining these relationships have proven to increase the efficiency and effectiveness of the programs initiatives. These partnerships have been established at the national, local, and internal levels.

The IPP has partnered with many national, external programs to include the Centers for Disease Control and Prevention (CDC), US Fire Administration (USFA), Bureau of Indian Affairs (BIA), and the National Highway Transportation Safety Administration (NHTSA). Partnerships with these programs have helped bridge the gap between research and policy making, and the local communities that are affected by them. Two good examples of this are the CDC's Tribal Motor Vehicle Injury Prevention program and the USFA's Sleep Safe Program. To address the disparity of motor vehicle-related injuries among AI/AN, CDC began funding four tribes in fall 2004 to design, implement, and evaluate evidenced-based strategies to reduce alcohol-impaired driving and increase occupant restraint use. The goals of this CDC-tribal initiative are to determine if the effective strategies from the *Community Guide* can be successfully tailored to tribal communities and to identify the key components of successful tribal intervention programs as a model for other tribes wishing to reduce the toll from motor vehicle crashes. These projects have already seen numerous successes including passage of two primary enforcement seatbelt laws, substantial increases in seatbelt use, and reductions of alcohol-impaired driving.⁹

The Sleep Safe Program is another example of how the IPP has helped facilitate a national initiative at the community level. The goal of the Sleep Safe Program is to reduce the rate of fire and burn injuries among AI/AN Head Start children by providing a curriculum for program development and parent/student education, and smoke alarms for installation. The USFA provides the smoke detectors and other related equipment while the IPP staff help facilitate the implementation at the local Head Start level.

The IPP has also formed relationships with internal programs including health promotion/disease prevention, behavioral health,

public health nursing and others. While sharing the IHS mission with these other internal programs, these relationships capitalize on the strengths of the various programs to achieve their goals and objectives while reducing the amount of overlap. While many of these programs have budgeted for injury prevention objectives, they may not have enough staffing or injury prevention training to meet them. The IPP's most abundant resource is a cadre of highly trained staff able to assist these programs with the planning, coordination, and implementation of proven effective intervention strategies.

Collaborations at the local level are vital for the successful implementation of interventions. These collaborations not only increase the efficiency of the implementation but they also provide for community buy-in and capacity building. One of the key components to a successful community injury prevention program is coalitions. Community health representatives (CHR), housing programs, tribal health departments, police departments, and elder programs are just a few of the local organizations that actively participate in coalition activities.

Conclusions

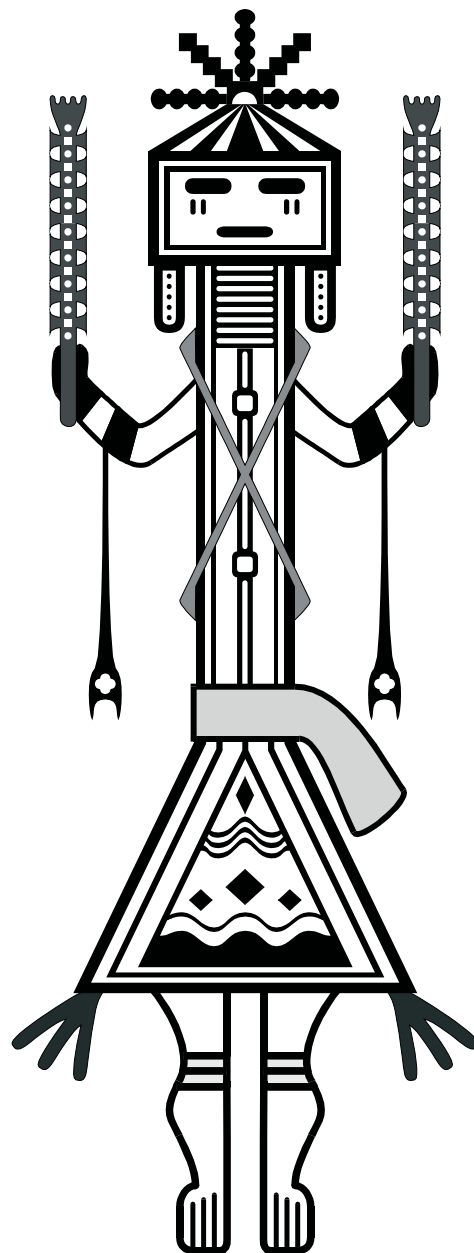
The four guiding principles of the IHS Injury Prevention Program underlie its mission: "To raise the health status of American Indians and Alaska Natives to the highest possible level by decreasing the incidence of severe injuries and death to the lowest possible level and increasing the ability of tribes to address their injury problems."¹⁶ These principles commit the Injury Prevention Program not to a static model of public health, but to a process of community change. That process acknowledges the power of partnerships and collaboration to build and sustain programs over time. It emphasizes the importance of reliable data and evidence-based strategies in designing and implementing interventions. And it identifies community needs and community ownership as the foundation for all programmatic efforts.

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Ute Indian Tribe Enforcement-Based Injury Prevention

CDR Holly Billie, RS, MPH, District Injury Prevention Coordinator and Environmental Health Office, Indian Health Service, Sparks, Nevada; Joseph LaFramboise, Ute Tribe Health Educator, Fort Duchesne, Utah; and Brian Tabbee, Ute Tribe Implementation Police Officer, Fort Duchesne, Utah

Introduction

Community concern about motor vehicle crashes at the Uintah and Ouray (U&O) Reservation was prompted by an Indian Health Service (IHS) injury surveillance report. The report revealed that from 1996 - 2000, motor vehicle crashes were the leading cause of death for the tribe. The Ute motor vehicle mortality rate was 162 per 100,000, nearly *three times* the US All Races rate of 54 per 100,000. Of the reservation's 38 crashes resulting in fatality or hospitalization during 1996 - 2000, 69% involved alcohol and only 14% of the victims used seatbelts. From 2000 - 2002, the average seatbelt use was 22% for drivers and 20% for children.¹

The Ute Tribe's Injury Prevention Coalition (IPC) sought funding to address the motor vehicle injury problem. The IPC began in 2000. It consisted of representatives from the Ute Tribe Health Education Department, Ute Tribe Head Start, Tri-County Health Department, IHS Office of Environmental Health and Engineering, and the Bureau of Indian Affairs Department of Law Enforcement Services (BIA DLES). Using the Centers for Disease Control's publication, *Guide to Community Preventive Services (Community Guide)*, the IPC proposed three evidence-based strategies: 1) increase the proper use of child safety seats through enforcement, child safety seat distribution, and education campaigns; 2) increase the use of safety belts by enhanced enforcement programs; and 3) reduce alcohol impaired driving by conducting sobriety checkpoints.² Permission for this effort, and its publication, was obtained from the Executive Director of the Ute Indian Tribe.

Background

The Northern Ute Indian Tribe is located on the U&O Reservation in northern Utah. Covering over 4.5 million acres, it is the second largest Indian reservation in the US. The Ute Tribe has a membership of 3,157 and over half of its members live on the reservation.

The BIA DLES has the primary responsibility for providing law enforcement for roughly 20% of the 562 federally recognized Indian tribes, including the Ute Tribe. The

BIA DLES did not conduct any seat belt or DUI checkpoints on the reservation in the past two decades due to a shortage of staff and competing priorities.

Methods

In May 2004, the IHS awarded the Ute Tribe the first Cooperative Agreement Injury Prevention Grant to be based in a police department. The overall goal of the two-year grant was to reduce injuries and fatalities due to motor vehicle crashes on the U&O Reservation. The grant's three objectives were to hire a full-time police officer to implement the program; increase restraint use by children and adults by 20%; and decrease alcohol-related crashes by 10%.

An Implementation Police Officer (IPO) was employed by the Ute Tribe and placed in the BIA DLES to work in partnership with this agency. The IPO position was one of two tribal police positions within the BIA DLES. The IPO reported to the BIA Police Chief, while accountability for activities and funds were provided by the Project Director and IHS Project Officer. The Ute Tribe Health Educator served as the grant Project Director.

The IPO completed the National Highway Safety Administration child passenger safety training and the IHS Introduction to Injury Prevention training course. The IPO also became an active member of the Ute Tribe Injury Prevention Coalition and embraced a collaborative, community-based approach to MVC prevention. He also worked closely with the grant's Project Director by attending coalition meetings, presenting information to the tribal council and to the public. The Project Director, a coalition member and tribal health administrator, played an important role in overseeing the administrative functions of the grant (i.e., quarterly reports, program planning, budget planning, and resolving administrative problems).

Motor Vehicle Program Activities

Education. The community education campaign, entitled "Did You Know?" began in February 2005 and lasted throughout the grant period. The campaign, spearheaded by the Injury Prevention Coalition, was presented in three phases. The first phase introduced the problem by describing the number of crashes, injury statistics, DUI arrests, seatbelt use rates, etc., through monthly newspaper articles, posters, and radio announcements. The second phase informed the community that the Ute Tribe had enforceable laws to address

seatbelt non-use and DUI; and listed consequences such as fines and incarceration parameters. The third phase announced that the BIA DLES would begin conducting announced enforcement checkpoints to address the problems. This campaign allowed gradual exposure and acceptance of new enforcement activities within the community. In addition to the community education campaign, twenty presentations on restraint use and DUI prevention were conducted at community events and local schools to over 500 individuals. Articles and public service announcements were submitted to local newspapers and radio stations.

In January 2006 the Ute Injury Prevention Coalition sponsored an IHS Introduction to Injury Prevention Course specifically for the Ute Tribe community. The course was attended by 20 community members and served to provide an overview of injury prevention and encourage advocacy of those in attendance. As a result, membership increased and community interest in the coalition increased.

Enforcement. The BIA DLES partnered with local law enforcement agencies to conduct three DUI/restraint checkpoints and three DUI saturation patrols. Over 540 direct contacts were made at these checkpoints and 126 citations were issued over the grant period.

Child Safety Seat Clinics. With an emphasis on correct use, five child safety seat clinics were conducted, where 47 child safety seats were checked for correct use. Forty-four new seats were given to community members who did not have a child safety seat or had an outdated or damaged seat. An additional 335 child safety seats were distributed through the Ute Tribe car seat distribution program.

Results

The Implementation Police Officer (IPO) and grant partners were successful in increasing adult restraint use from 22% to 42% and child restraint use from 20% to 42%. Overall, the number of injury crashes decreased as driver seatbelt use increased (Figure 1). There were 340 DUI arrests during the project period (2004 - 2005), compared to 310 in the prior two-year period (2002 - 2003). The total number of alcohol-related crashes declined from 32 to 21 (34%) between the two time periods.

Figure 1. Driver seat belt use and crashes with injuries, Ute Tribe, 2000 - 2006

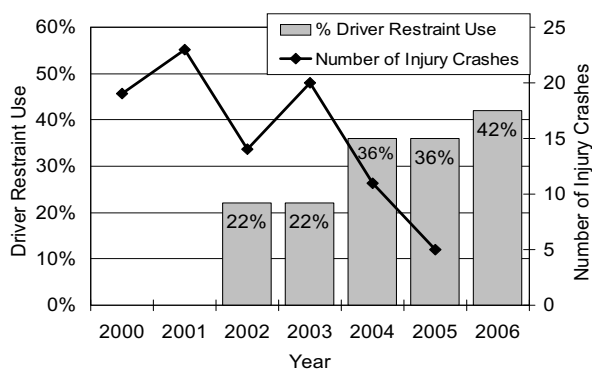


Table 1 summarizes the crash data for the two time periods (2002 - 2003 vs. 2004 - 2005) based on the categories used in police reports (fatalities, non-fatal injuries, property damage only). Although the relatively low number of crashes warrant caution in making firm conclusions, the declines are consistent with expectations. Specifically, the 9% overall reduction in motor vehicle crashes was due to large declines in crashes involving fatalities (from 6 to 2) and injuries (from 28 to 14). Property-damage-only crashes actually increased slightly between the two time periods (from 137 to 140).

Table 1. Motor vehicle crash data, Ute Tribe

	2002 - 2003 (Prior to grant)	2004 - 2005 (Grant period)	Percent change
Total number of MVCs	171	156	- 9%
Number of crashes involving a fatality	6	2	- 67%
Number of crashes with injuries (non-fatal)	28	14	- 50%
Number of "property damage only" crashes	137	140	+ 2%

Baseline and follow-up community surveys were conducted by the BIA DLES and the Tribal Health Educator in the winter months of 2004/2005 (before the community education campaign) and 2005/2006. There was an overall increase of 18% in correct responses to questions about motor vehicle laws after the education campaign was conducted.

Discussion

One reason for the program's success was the high degree of involvement of the Project Director. Rather than providing only traditional administrative oversight, the Project Director was involved in every aspect of the grant, including developing the proposal, conducting community presentations, developing partnerships, assisting with enforcement checkpoints, submitting articles to the local newspapers, supporting the hired implementation police officer, and writing reports.

Hiring a police officer to conduct injury prevention activities was very important in accomplishing the goals and objectives of this grant, especially in the area of enforcement. There were several challenges that the program faced and overcame. Turnover in the police chief position, and his unfamiliarity with the grant objectives/purpose, resulted in the IPO being assigned to night shifts and regular police officer

duties. This made it difficult for the IPO to focus on grant-related activities. To address the situation, the Project Officer prescribed the weekly division of labor for the IPO: 30 hours of grant work and 10 hours of patrol work. Grant work hours were to occur during normal business hours to facilitate activities such as community presentations and planning checkpoints. Patrol work, required to retain officer certification, was limited. The IPO responded to motor vehicle crashes, conducted crash investigations, and issued restraint and DUI citations during patrol work hours.

To increase the likelihood of success for future police department-based injury prevention grants, we recommend that programs hire a police officer who has completed police academy training; or that the grant schedule be adjusted to accommodate an untrained individual (e.g., by postponing grant activities until the officer completes academy training). Academy training can take five months to complete, and requires three months of additional field training before solo officer duties can be conducted.

The successful completion of this grant underscores the effectiveness of an enforcement-based injury prevention program involving evidence-based strategies. To further reduce motor vehicle crash rates at the Northern Ute Tribe, our priorities are to:

- Increase the public's safe and proper use of seat belts and car seats. A 42% restraint use is still much lower than the National Highway Traffic Safety Administration 2005 national restraint use rate of 82%.³
- Increase fines for non-restraint use. Findings from the community survey indicate that current fines of \$20 for non-restraint use citations are not a strong deterrent.
- Continue efforts to reduce the number of people who drive while impaired by alcohol or drugs.
- Implement new strategies to reduce DUI, including stronger sanctions for repeat drinking and driving offenders and alternative sentencing.

Conclusion

In the two years of the grant, the Ute Tribe implemented evidence-based strategies yielding measurable success. Strong partnerships among the Implementation Police Officer, the BIA Department of Law Enforcement Services, and the Ute Tribe Injury Prevention Coalition were keys to their success. Through hard work, excellent collaboration, and perseverance, they were successful in increasing adult and child restraint use and reducing both alcohol- and injury-related crashes.

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Acknowledgements:

We want to express our appreciation to LT Shawn Blackshear, Uintah & Ouray Service Unit Environmental Health Officer, CDR Kenny Hicks, Phoenix Area Injury Prevention Specialist, and Dr. Larry Berger, MD, MPH, Clinical Assistant Professor of Pediatrics at the University of New Mexico School of Medicine for their invaluable support and assistance throughout this project.



October is Domestic Violence Awareness Month

October is national Domestic Violence Awareness Month (DVAM). This is an annual observance sponsored by the National Coalition Against Domestic Violence. Every October across the country, domestic violence survivors and advocates, health care providers, elected officials, law enforcement and public safety personnel, business leaders, faith-based groups,

and many others are organizing and participating in domestic violence memorial activities, public education campaigns, and community outreach events. If you would like more information about how your facility can participate in DVAM activities, visit www.ncadv.org.

Health Cares About Domestic Violence Day: October 10, 2007

Health Cares About Domestic Violence Day (HCADV Day) is a nationally recognized awareness-raising day that takes place annually on the second Wednesday of October. Sponsored by the Family Violence Prevention Fund, HCADV Day aims to reach members of the health care community and educate them about the critical importance of assessing for domestic violence, as well as the long term health implications of domestic violence and lifetime exposure to violence.

Medical studies link long term effects of domestic violence and abuse with a myriad of health problems including smoking, diabetes, obesity, eating disorders, and substance abuse. However, while doctors and nurses routinely screen for high blood pressure and high cholesterol, too few screen for domestic violence. This year we hope to support you in your efforts to prioritize routine assessment and intervention for domestic violence as part of a preventative health care strategy.

There are many ways that you can provide leadership in your community on HCADV Day, and the Family Violence Prevention Fund is committed to helping you craft activities that best meet your interests, resources, and time availability. Examples of past participation include hanging posters in

waiting rooms that advertise local resource numbers, writing a newsletter article or an op-ed for a local paper, and inviting a speaker to conduct a brown bag lunch on domestic violence for staff.

You can learn more about HCADV Day and obtain an organizing packet by visiting <http://www.endabuse.org/hcadvd>. Health care providers are in a unique position to identify and assist victims of domestic violence. If you would like more information about how to improve the response of your facility to domestic violence visit www.endabuse.org/health

Sample hospital and clinic domestic violence policies and procedures and guidelines for providers can be found on the IHS Maternal and Child Health Domestic Violence website at <http://www.ihs.gov/MedicalPrograms/MCH/V/index.cfm>

If you are a victim of domestic violence, call the National Domestic Violence Hotline at 1-800-799-SAFE (7233); 1-800-787-3224 (TTY).



MEETINGS OF INTEREST □

Available EHR Courses

EHR is the Indian Health Service's Electronic Health Record software that is based on the Resource and Patient Management System (RPMS) clinical information system. For more information about any of these courses described below, please visit the EHR website at http://www.ihs.gov/CIO/EHR/index.cfm?module=rpms_ehr_training. To see registration information for any of these courses, go to <http://www.ihs.gov/Cio/RPMS/index.cfm?module=Training&option=index>.

Medical Providers Best Practices and GPRA Measures Conference

November 29 - 30; Sacramento, California

The California Area Office is once again hosting a Medical Providers Best Practices Conference. This two-day conference, themed "Putting the Pieces Together," is designed for providers throughout the IHS network as well as clinic staff that support the quality improvement process. This CME/CEU accredited event will focus on improving patient care through best practices and GPRA tracking.

Dr. Thomas Sequist will be our keynote speaker and will provide updates on the quality improvement initiative between IHS and Harvard. Dr. Sequist's research agenda focuses on Native American health care, ambulatory care quality improvement strategies, and the intersection between quality of care and health disparities. Dr. Sequist is an assistant professor of medicine and health care policy at Harvard Medical School and Brigham and Women's Hospital. He currently practices general internal medicine at Harvard Vanguard Medical Associates.

Other topics that will be covered include chronic care initiatives, elder care, immunizations, and clinical strategies for promoting healthy weight in children and youth. An iCare software lab will also be featured. iCare is a new, user-friendly RPMS software tool that providers can use to manage the care of their patients.

We are finalizing arrangements for the conference now and will be circulating a complete conference announcement soon. For more information and conference updates visit www.ihs.gov/FacilitiesServices/AreaOffices/California where you may register for this conference and subscribe to receive conference updates by e-mail. Alternatively, you may e-mail a request to caogpra@ihs.gov.

Making Data Count: Measuring Diabetes and Obesity in the Indian Health System

December 18 - 20, 2007; Tucson, Arizona

This conference, supported by the IHS Division of Diabetes

Treatment and Prevention (DDTP), will offer plenary sessions and concurrent workshops focusing on both clinical and technical applications. It will be beneficial to all new and experienced data users addressing diabetes and obesity in Indian health care systems.

The program objectives are as follows:

- Identify current status of diabetes and obesity data-related issues
- Learn the impact of cost and quality issues
- Network and share common issues and best practices for capturing, reporting, using, and improving data to help improve the lives of American Indian and Alaska Native people
- Review currently available and advanced diabetes and obesity related data systems and analysis tools in IHS, tribal, and urban program (I/T/U) health care settings
- Explore opportunities for education, training, and career development in data management and program analysis in I/T/U systems

The meeting will be held at the Westin La Paloma. For more information, go to www.ihs.gov/MedicalPrograms/Diabetes/training.asp. Registration is now available at <http://conferences.thehillgroup.com/conferences/makingdatacount/registration.html>.

Indian Health Midwinter Conference on Women's and Children's Healthcare

February 8 - 10, 2008, Telluride, Colorado

Mark your calendar! Ask for leave! Think snow! It's time to make plans to attend the annual Indian Health Midwinter Conference on Women's and Children's Healthcare. This conference will bring together health care providers and nurses from Navajo Area and throughout Indian country for three days of continuing education, networking, and winter recreation. Topics will include a wide range of timely issues important for ob/gyns, pediatricians, family physicians, NPs, CNMs, PAs, and RNs who care for Native American women and children.

It will be a fun and educational weekend if you ski, snowboard, or like to sit by the fire. As always, no advance registration is needed. Details regarding times and location will be mailed later in the fall. If you need additional information in the meantime, please contact Alan Waxman, MD at awaxman@salud.unm.edu.

Share this announcement with a friend. See you there!

POSITION VACANCIES □

Editor's note: As a service to our readers, THE IHS PROVIDER will publish notices of clinical positions available. Indian health program employers should send brief announcements on an organizational letterhead to: Editor, THE IHS PROVIDER, The IHS Clinical Support Center, Two Renaissance Square, Suite 780, 40 North Central Avenue, Phoenix, Arizona 85004. Submissions will be run for two months, but may be renewed as many times as necessary. Tribal organizations that have taken their tribal "shares" of the CSC budget will need to reimburse CSC for the expense of this service. The Indian Health Service assumes no responsibility for the accuracy of the information in such announcements.

Family Practice Physician Winslow Indian Health Care Center; Winslow, Arizona

The Winslow Indian Health Care Center (WIHCC) in northern Arizona is currently looking for a family practice physician who is interested in a broad scope of practice, preferably including obstetrics. We have a staff of 12 physicians, including a surgeon, and eight family nurse practitioners. We offer comprehensive ambulatory and urgent/emergent care to patients at our health center in Winslow, where we are currently completing construction on a state-of-the-art, seven bed urgent care center. WIHCC also operates two field clinics five days a week on the Navajo Reservation, at Leupp and Dilkon. Our physicians provide inpatient care at the local community hospital, the Little Colorado Medical Center, where obstetric back-up is readily available. Winslow offers an awesome mix of professional, cultural, and recreational opportunities. We are located just seven miles from the breathtaking beauty of Navajoland and its people, and 50 miles from Flagstaff, a university town with extensive downhill and cross-country skiing, where several of our staff choose to live.

WIHCC became an ISDA 638 contracted site in 2002, and has experienced steady growth and enhancement of programs and opportunities since the transition from a direct IHS program. Please contact Frank Armao, MD, Clinical Director, if you are interested in pursuing an opportunity here. E-mail frank.armao@wihcc.org, or telephone (928) 289-6233.

Family Practice Physicians Medical Clinic Manager North Olympic Peninsula, Washington State

The Jamestown Family Health Clinic is seeking two BC/BE full spectrum family practice physicians with or without obstetrical skills. The clinic group consists of five FP physicians, two OB/GYN physicians, and five mid-level providers. The clinic is owned by the Jamestown S'Klallam Tribe and serves tribal members and approximately 9,000 residents of the north Olympic Peninsula. The practice

includes four days per week in the clinic and inpatient care at Olympic Medical Center. OMC is family medicine friendly with hospitalists who cover nighttime call and are available to assist with most hospital rounding. Our practice fully utilizes an electronic medical record system (Practice Partner) and participates in the PPRI net research affiliated with Medical University of South Carolina. The clinic serves as a rural training site for the University of Washington Family Medicine residency.

The Jamestown S'Klallam Tribe provides a competitive salary and unbeatable benefit package including fully paid medical, dental, and vision coverage of the physician and family. The north Olympic Peninsula provides boating opportunities on the Strait of San Juan de Fuca, and hiking, fishing, and skiing opportunities in the Olympic Mountains and Olympic National Park. Our communities are a short distance from Pacific Ocean beaches, a short ferry ride away from Victoria, BC, and two hours from Seattle.

Send CV to Bill Riley, Jamestown S'Klallam Tribe, 1033 Old Blyn Highway, Sequim, Washington 98382, or e-mail briley@jamestowntribe.org.

The Medical Clinic Manager is responsible for management and staff supervision of the multiple provider clinic in Sequim, Washington. Clinic services include primary care and OB/GYN. Send cover letter and resume to Jamestown S'Klallam Tribe, 1033 Old Blyn Highway; Sequim Washington 98382, Attn: Bill Riley; or fax to (360) 681-3402; or e-mail briley@jamestowntribe.org. Job description available at (360) 681-4627.

Chief Pharmacist Deputy Chief Pharmacist Staff Pharmacists (2)

The Hopi Health Care Center, PHS Indian Health Service, is located on the Hopi Indian Reservation in beautiful northeastern Arizona. HHCC is a critical access hospital with an inpatient unit consisting of four patient beds plus two labor and delivery suites, emergency room, and a large outpatient clinic. The HHCC serves the Hopi, Navajo and Kiabab/Paiute Tribes. Housing, sign-on bonus and/or moving expenses are available for eligible applicants. The Hopi people are rich in culture, customs, and traditions and live atop the peaceful mesas. Applications are available on-line at www.ihs.gov, or contact Ms. April Tree at the Phoenix Area Office at (602) 364-5227.

Nurse Practitioners Physician Assistant Aleutian Pribilof Islands Association (APIA), St. Paul and Unalaska, Alaska

Renown bird watcher's paradise! Provide health care services to whole generations of families. We are recruiting for mid-level providers for both sites, and a Medical Director for St. Paul and a Clinical Director for Unalaska, Alaska.

Duties include primary care, walk-in urgent care, and emergency services; treatment and management of diabetes a plus. Must have the ability to make independent clinical decisions and work in a team setting in collaboration with referral physicians and onsite Community Health Aide/Practitioners. Sub-regional travel to other APIA clinics based on need or request. Graduate of an accredited ANP or FNP, or PA-C program. Requires a registration/license to practice in the State of Alaska. Credentialing process to practice required. Knowledge of related accreditation and certification requirements. Minimum experience 2 - 3 years in a remote clinical setting to include emergency care services and supervisory experience. Indian Health Service experience a plus. Will be credentialed through Alaska Native Tribal health Consortium. Positions available immediately. Work 37.5 hours per week.

Salary DOE + benefits. Contractual two year commitment with relocation and housing allowance. Job description available upon request. Please send resumes with at least three professional references to Nancy Bonin, Personnel Director, via email at nancyb@apiai.org.

Family Practice Physician Dentist

Northeastern Tribal Health Center; Miami, Oklahoma

The Northeastern Tribal Health Center is seeking a full-time Family Practice Dentist and a Family Practice Physician to provide ambulatory health care to eligible Native American beneficiaries. The Health Care Center is located in close proximity to the Grand Lake area, also with thirty minute interstate access to Joplin, Missouri. The facility offers expanded salaries, excellent benefits, loan repayment options, no weekends, and no call. To apply please submit a current resume, certifications, and current state license. Applicants claiming Indian preference must submit proof with their resume. Applicants will be required to pass a pre-employment drug screen and complete a background check. To apply, send requested documents to Northeastern Tribal Health Center, P.O. Box 1498, Miami, Oklahoma 74355, attention: Personnel. The phone number is (918) 542-1655; or fax (918) 540-1685.

Internal Medicine and Family Practice Physicians Yakama Indian Health Center; Toppenish, Washington

Yakama Indian Health Center in Toppenish, WA will soon have openings for internal medicine and family practice physicians. The current staff includes four family physicians, two pediatricians, one internist, five nurse practitioners, and a physician assistant. The clinic serves the 14,000 American Indians living in the Yakima Valley of south central Washington. Night call is taken at a local private hospital with

24/7 ER coverage. The on-call frequency is about 1 out of 7 nights/weekends. The area is a rural, agricultural one with close proximity to mountains, lakes, and streams that provide an abundance of recreational opportunities. The weather offers considerable sunshine, resulting in the nearest city, Yakima, being dubbed the "Palm Springs of Washington." Yakima is about 16 miles from Toppenish, with a population of 80,000 people. There you can find cultural activities and a college. For further information, please call or clinical director, Danial Hocson, at (509) 865-2102, ext. 240.

Family Practice Physician Ilanka Community Health Center; Cordova, Alaska

The Ilanka Community Health Center has an immediate opening for a board certified/eligible family practice physician. Position is full-time or part-time with flexible hours.

Ilanka is a tribally-owned clinic that also receives federal Community Health Center funding. We serve all members of the community. Cordova also has a 10-bed Critical Access Hospital with on-site long-term care beds. Physicians and physician assistants provide services in the clinic and in the hospital emergency department, as well as inpatient and long-term care.

This is a very satisfying practice with a nice mix of outpatient, ER, and inpatient medicine. Sicker patients tend to be transferred to Anchorage. The clinic provides prenatal care to about 20 patients a year, but the hospital is currently not doing deliveries.

Cordova is a small, beautiful community situated in southeast Prince William Sound. It is a very friendly town. The population of Cordova is 2,500 in the winter and around 5,000 in the summer. The population is 70% Caucasian, 15% Alaska Native, and 10% Filipino, with an influx of Hispanic patients in the summer.

Most of the town is within easy walking distance to the clinic/hospital. The community is off the road system, but connects to roads by ferry and has daily flights to Anchorage and Juneau. This offers the advantages of remoteness with the benefits of connectivity.

We have tremendous access to outdoor sports and activities including excellent hiking, cross country skiing, alpine skiing, ice skating, boating, world class kayaking, heli-skiing, fishing, and hunting. This is the source of Copper River Salmon!

We offer flexible schedules, competitive salary and benefits, and loan repayment options. We would like to hear from you if you are excited about being an old style, small-town, family doctor.

Get more information about Cordova at www.cordovaalaska.com, www.cordovachamber.com, and www.cordovaalaska.net/cordovarealty/. For more information, please contact Gale Taylor, at (907) 424-3622; or gale@ilanka.org

Medical Director

Muckleshoot Indian Tribe; Auburn, Washington

The Muckleshoot Indian Tribe has an outstanding opportunity for a full-time family practice physician, BC/BE, MD or DO, Washington licensed, to be our medical director. We are located in Auburn, approximately 30 miles from downtown Seattle. A person has both urban and rural lifestyle options, given our location. We provide comprehensive care to Muckleshoot Tribal members and other eligible natives who reside in our health delivery area. We provide comprehensive care that includes, medical, dental, pharmacy, radiology, behavioral health, community health, contract care, physical therapy, massage therapy, aquatic programs and a host of wellness activities, and administrative support services. Our beautiful 90,000 square foot facility was completed in 2005 and houses all services under one roof, including a full gymnasium, 5-lane lap pool, therapy pool and cardio/aerobic equipment. It is state-of-the-art, equipped with all new equipment and several conference areas.

Our ideal medical director would be familiar with reservation-based health issues facing American Indians/Alaska Natives, possess a desire to lead our organization that expects the highest quality care, maintain accreditation standards, and provide primary care. There is no call requirement. The Muckleshoot Indian Tribe supports quality of life for the staff and a healthy work/play balance with generous compensation and benefits.

This is a wonderful opportunity to make a difference! Please visit our website at www.muckleshoot.nsn.us. For further information please contact Gary Leva by e-mail at gcginc.gcg@gmail.com; telephone (509) 535-4475; fax (509) 535-4494; website www.garyconsultinggroup.com.

Emergency Department Physician/Director Kayenta Health Center; Kayenta, Arizona

Kayenta is unique in many ways. We are located in the Four Corners area on the Navajo Indian Reservation as part of the Indian Health Service/DHHS. We have challenging assignments, beautiful rock formations, movie nostalgia, ancient ruins, and wonderful clientele to care for. We are within one hundred and fifty miles from the Grand Canyon and one hundred miles from Lake Powell, which offers boating, fishing, water skiing, and camping. World class skiing resorts and winter sports are just a few hours away in Colorado and Utah. Kayenta is a great place to raise a family with stress free living in a small hometown setting.

Working for Kayenta Health Center provides a unique opportunity. Because of our remote location and underserved population, you may be eligible for loan repayment and can be making a real difference in the world.

We are currently recruiting for a BC/BE emergency department physician and director to work in our 24-hour, eight bed facility. This is a great opportunity to join our multi-specialty ten member medical staff and nursing team. This

position will be supported by dynamic outpatient clinical services, including dental, optometry, mental health, public health nursing, pharmacy, radiology, environmental health services, and nutrition.

If interested in this exciting employment opportunity, please contact Stellar Anonye Achampong, MD, Clinical Director, at (928) 697-4001; e-mail stellar.anonye@ihs.gov; or send CV to Human Resources/Melissa Stanley, PO Box 368, Kayenta, Arizona 86033; telephone (928) 697-4236.

Multiple Positions

Riverside-San Bernardino County Indian Health Inc.; Banning, California

Internal medicine physician: two years experience in an ambulatory care patient setting. MD degree, current California medical license, current DEA license, board certified.

Public health nurse: bachelor of science degree in nursing from an accredited school of nursing. Must possess a current California nursing license and public health nurse certificate; valid California driver's license and safe driving record.

RN charge nurse: current California RN license, current CPR certification, current California driver's license. Experience with computerized medical management system desirable. Two years experience in ambulatory care, urgent care, or similar setting.

Registered Dietitian & Public Health Nutritionist: bachelor of science degree in foods and nutrition, applicable master's degree in nutrition or masters in public health or RD. At least two years professional experience required. A California driver's license and a current DMV printout are required.

Quality management/credentialing assistant: applicant must possess a high school diploma or equivalent. Must have two years experience in the coordination of quality management and credentialing services for the professional staff. Must have strong written and oral communications skills.

All applicants must be able to work with the Indian community and be sensitive to the Indian culture and its needs. Please fax resumes to Human Resource Department at (951) 849-3581; or e-mail msouvenir@rsbcih.org.

Multiple Professions

Pit River Health Service, Inc.; Burney, California

Pit River Health Service is an IHS funded rural health clinic under P.L.93-638 in northern California that provides medical, dental, outreach, and behavioral health. We are seeking several professional positions to be filled. We are looking for a Health Director to administer and direct the program to fulfill the Pit River Health Service, Inc.'s primary mission of delivering the highest possible quality of preventative, curative and rehabilitative health care to the Indian people served; a Dental Director to plan and implement the dental program and supervise dental staff; a Public Health

Nurse or Registered nurse seeking a PHN license to provide public health nursing and to coordinate and supervise Community Health Services program; a Behavioral Health Director/LCSW as an active member of an interdisciplinary team providing prevention, intervention, and mental health treatment services to clients; and a Registered Dental Assistant.

Burney is located about 50 miles northeast of Redding, California in the Intermountain Area. The Intermountain Area offers plenty of recreational opportunities such as fishing, hiking, camping, boating, and hunting, with a beautiful landscape. Snow skiing is within an hour's drive away. The Intermountain Area is a buyers market for homes, as well. All available positions require a California license and/or certification. To apply for employment opportunities and for more information, please contact John Cunningham; e-mail johnc@pitrivierhealthservice.org; or telephone (530) 335-5090, ext. 132.

Mid-Level Provider

Sam Hider Community Clinic; Jay, Oklahoma

The Sam Hider Community Clinic has an immediate opening for a full-time nurse practitioner and/or physician assistant. This facility, located in Jay, is one of six rural ambulatory clinics operated by the Cherokee Nation and is located 15 minutes south of Grand Lake, Oklahoma's largest recreational lake. Other services offered at this facility include dental, radiology, public health nursing, in-depth diabetes program, pharmacy, and laboratory. Cherokee Nation offers competitive salaries, excellent benefits, loan repayment options, no weekends, no call, and relocation expenses are available.

If interested in this exciting opportunity, please submit a completed Cherokee Nation application along with copies of degrees and/or certificates to Cherokee Nation Health Administration Office, Attn: Kathy Kilpatrick or Angie Cone, PO Box 948, Tahlequah, Oklahoma 74465; telephone (918) 453-5000; fax (918) 458-6174; or e-mail kathy-kilpatrick@cherokee.org or angie-cone@cherokee.org. We would also like to extend an invitation to come and visit our clinic – we feel confident you'll love our charming southern hospitality!

For more detailed information regarding job listings and for an application, log onto our website at www.cherokee.org. Applicants with Indian preference must submit a copy of their Certificate Degree of Indian Blood (CDIB) along with their application. All applicants will be required to pass a pre-employment drug screen and complete a background check.

Psychiatrist

Winslow Indian Health Care Center; Winslow, Arizona

The Winslow Indian Health Care Center (WIHCC) in northern Arizona is currently looking for a psychiatrist. The psychiatrist works as part of a team at WIHCC providing behavioral health services primarily to Navajo and Hopi

patients, and the practice is mostly out-patient with occasional hospital consults. Additional staff consists of one full-time psychiatric nurse practitioner, another (part-time) psychiatrist, and five Navajo counselors. The call schedule is rotated between staff, and is very reasonable. WIHCC has a medical staff of 12 primary care physicians, a surgeon, and eight family nurse practitioners, and offers comprehensive ambulatory and urgent/emergent care to patients at our health center in Winslow, and two field clinics on the Navajo Reservation. Our physicians provide in-patient care at the local community hospital, Little Colorado Medical Center.

Winslow offers an awesome mix of professional, cultural, and recreational opportunities.

WIHCC is located just seven miles from the breathtaking beauty of Navajoland and its people, and 50 miles from Flagstaff – a university town with extensive downhill and cross-country skiing, where several of our employees choose to live. Attractive salary and benefits, as well as a team oriented, supportive work environment are key to our mission to recruit and retain high quality professional staff.

WIHCC became an ISDA 638 contracted site in 2002, and has experienced steady growth and enhancement of programs and opportunities since the transition from a direct IHS program. Please contact Frank Armao, MD, Clinical Director, if you are interested in pursuing an opportunity here; e-mail frank.armao@wihcc.org; telephone (928) 289-6233.

Family Practice Physician

Peter Christensen Health Center; Lac du Flambeau, Wisconsin

The Peter Christensen Health Center has an immediate opening for a board certified family practice physician; obstetrics is optional, and call will be 1/6. The facility offers competitive salaries, excellent benefits, and loan repayment options; all within a family oriented work atmosphere.

The Lac du Flambeau Indian Reservation is located in the heart of beautiful northern Wisconsin. The area's lakes, rivers, and woodlands teem with abundant wildlife, making it one of the most popular recreational areas in northern Wisconsin. The area boasts fabulous fishing, excellent snowmobiling, skiing, hunting, golf, and much more. Four seasons of family fun will attract you; a great practice will keep you.

For specific questions pertaining to the job description, call Randy Samuelson, Clinic Director, at (715) 588-4272. Applications can be obtained by writing to William Wildcat Community Center, Human Resource Department, P.O. Box 67, Lac du Flambeau, Wisconsin 54538, Attn: Tara La Barge, or by calling (715) 588-3303. Applications may also be obtained at www.lacduflambeautribe.com.

Primary Care Physician

Zuni Comprehensive Community Health Center Zuni, New Mexico

The Zuni Comprehensive Community Health Center (Zuni-Ramah Service Unit) has an opening for a full-time primary care physician starting in January 2008. This is a family medicine model hospital and clinic providing the full range of primary care — including outpatient continuity clinics, urgent care, emergency care, inpatient (pediatrics and adults) and obstetrics — with community outreach, in a highly collaborative atmosphere. For a small community hospital, we care for a surprisingly broad range of medical issues. Our professional staff includes 14 physicians, one PA, one CNM, a podiatrist, dentists, a psychiatrist, a psychologist, optometrists, physical therapists, and pharmacists. Our patient population consists of Zunis, Navajos, and others living in the surrounding area.

Zuni Pueblo is one of the oldest continuously inhabited Native American villages in the US, estimated to be at least 800 - 900 years old. It is located in the northwestern region of New Mexico, along the Arizona border. It is high desert, ranging from 6000 - 7000 feet elevation and surrounded by beautiful sandstone mesas, canyons, and scattered sage, juniper, and pinon pine trees. Half of our medical staff has been with us for more than seven years, reflecting the high job and lifestyle satisfaction we enjoy in this community.

For more information, contact John Bettler, MD at (505) 782-7453 (voice mail), (505) 782-4431 (to page), or by e-mail at john.bettler@ihs.gov. CVs can be faxed to (505) 782-4502, attn: John Bettler.

**Primary Care Physicians
(Family Practice, Internal Medicine, Med-Peds)
Chinle Service Unit; Chinle, Arizona**

Got Hózhó? That's the Navajo word for joy . . . Here on the Navajo Reservation, there's a great mix of challenging work and quality of life. No rush hour traffic, no long commutes, no stressors of urban life. We walk to work (naanish) and enjoy living in our small, collegial community. Our 60-bed, acute care hospital is located in Chinle, Arizona – the heart of the Navajo Nation.

At work we see unique pathology, practice evidence-based medicine, and are able to utilize the full scope of our medical training. Together, we enjoy learning in an atmosphere of interdepartmental collaboration, supported by an established network of consulting specialists across the southwest. A comprehensive system of preventive programs and ancillary services allows us to provide the best possible care for our patients.

During our time off, many of us explore the beautiful southwest, bike on amazing slick rock and ski the slopes of the Rocky Mountains. It's a great life – combining challenging and interesting work with the peaceful culture of the Navajo people and the beautiful land of the southwest.

We're looking for primary care physicians to join our team. If you're interested in learning more about a place where "naanish baa hózhó" (work is joyful), contact Heidi Arnholm,

Medical Staff Recruiter, Chinle Service Unit, telephone (928) 674-7607; e-mail heidi.arnholm@ihs.gov.

**Clinical Director, MD or DO
Puyallup Tribal Health Authority; Tacoma, Washington**

The Puyallup Tribal Health Authority, a tribally operated ambulatory clinic located in Tacoma, Washington, is recruiting for a clinical director. PTHA is an urban based clinic located 30 miles south of Seattle, just off of Interstate 5. Our campus houses three buildings providing mental health, a 30-day inpatient chemical dependency program, a 13-chair dental department, dental lab, physical therapy, x-ray, pharmacy, community health, medical, medical lab, and a dedicated pediatrics department. The medical department currently has nine physicians, one PA, and five RNs.

The clinical director will be responsible for directing and managing all Puyallup Tribal Health Authority's medical clinic operations, ensuring delivery of effective health care as well as providing professional health care services directly to PTHA patients. PTHA is accredited by AAAHC, CARF (Behavioral Health), and COLA (Medical Lab). For more information, please e-mail hr@eptha.com; website www.eptha.com; fax (253) 593-3479; or call (253) 593-0232, ext. 516. The mailing address is Puyallup Tribal Health Authority, attention: Human Resources, 2209 E 32nd St, Tacoma, Washington 98404.

**Family Practice Physician
Family Practice Medical Director
Tanana Chiefs Conference, Chief Andrew Isaac Health
Center; Fairbanks, Alaska**

We are seeking a board certified family practice physician, preferably with obstetrics skills for a full-time position. We will have openings in the summers of 2007 and 2008.

The facility is a multispecialty clinic providing services in obstetric/gynecology, internal medicine, and family practice. It also includes dental, optometry, pharmacy, behavioral health, community health aides, and other services. Our referral region includes 43 villages in interior Alaska covering an area the size of Texas. Fairbanks has an outstanding school system and university. We offer a very competitive salary with a great benefits package and a loan repayment plan. Commissioned Corps positions are also available. Contact Jim Kohler at (907) 459-3806 or james.kohler@tananachiefs.org.

**Family Practice Physician
Seattle Indian Health Board; Seattle, Washington**

Full Time, Fantastic Benefits! We are recruiting for a family practice physician to join our team at the Seattle Indian Health Board in Seattle, Washington. We are a multiservice community health center for medical, dental, mental health, substance abuse, and community education services. We are looking for a physician who is familiar with health and social issues facing American Indians/Alaska Natives and a desire to promote the delivery of appropriate health services to this population.

Seattle Indian Health Board (SIHB) physicians are responsible for the delivery of quality, culturally sensitive primary medical care to the SIHB's patient population. This position provides general medical care (including diagnosis, treatment, management, and referral) to SIHB patients with acute, chronic, and maintenance health care needs. The physician chosen will also participate in the medical on-call rotation schedule and other responsibilities such as consulting and coordinating care with other practitioners, nursing, pharmacy, laboratory, and outside referral sites. He or she will provide clinic preceptorship of mid-level practitioners and patient care instruction to nurses, pharmacists, and other SIHB clinical staff. The incumbent will precept for residents for the outpatient continuity family practice clinics. In addition to supervising patient care, preceptors engage in didactic activity to enhance resident learning. The physician will also participate in quality assurance, program development, community health education/screening, and related activities. He or she will document all patient care information/treatment in problem-oriented format in the patient's medical records, as well as complete and submit encounter forms and related materials according to established procedure. Finally, the person selected will comply with SIHB policies and procedures, and the AAAHC Standards of Care.

Qualifications include board certification in family medicine and a Washington State medical license. All applicants will be required to complete a background check. Please visit our website at www.sihb.org for more information, or you can call Human Resources at (206) 324-9360, ext. 1123.

Primary Care Physicians

USPHS Claremore Comprehensive Indian Health Facility; Claremore, Oklahoma

The USPHS Claremore Comprehensive Indian Health Facility has openings for full-time positions for an emergency medicine physician, a surgeon, an anesthesiologist (or nurse anesthetist), an OB/GYN physician, and an internal medicine physician.

The Claremore hospital is a 50-bed specialty based comprehensive care facility, providing care through nine organized clinical services: community health, dentistry, optometry, emergency medical services, general surgery, internal medicine, obstetrics and gynecology, pediatrics, and radiology. In addition, the hospital has a six-bed intensive and coronary care unit and CAT scan equipment with 24 hour teleradiology support. The facility maintains several academic affiliations, and has a professional staff consisting of 36 staff physicians, approximately 60 contract physicians, five dentists, three nurse practitioners, a physician assistant, an optometrist, and an audiologist.

Claremore is a town of 18,000 just 21 miles northeast of the very metropolitan city of Tulsa, with a US Census county population of 560,431. Tulsa has a major airport with international flights and destinations in most major US cities,

and was ranked in the top 10 southern cities in Southern Living magazine and Fodor's Travel Publications as one of its outstanding travel destinations. Tulsa's cost of living is 8 percent below the national average and has a county per capita income 11 percent above the national average. If you prefer rural living, there are many opportunities nearby. The facility is located 10 minutes from a major lake, and only one hour from a lake with over 1,100 miles of shoreline.

For more information, contact Paul Mobley, DO at (918)342-6433, or by e-mail at paul.mobley@ihs.hhs.gov. CVs may be faxed to (918) 342-6517, Attn: Paul Mobley, DO.

Family Practice Physician

Hopi Health Care Center; Polacca, Arizona

The Hopi Health Care Center currently has openings for family practice physicians and family nurse practitioner or physician assistants. The Hopi Health Care Center is a small, rural IHS hospital providing full spectrum family practice medical services including ambulatory care, adult/peds inpatient care, low risk obstetrics, and ER care. We currently staff for 12 full time physicians, and four full time FNP/PA positions. Our facility is located in northern Arizona, 90 miles northeast of Flagstaff and 70 miles north of Winslow, on the Hopi Indian Reservation. Services are provided to both Hopi and Navajo reservation communities. The reservation is located in the heart of the southwest; within a 90 mile radius are abundant mountain areas, lakes, forests, and archeological sites. The Hopi Health Care Center is a new facility established in 2000 with a full ambulatory care center environment including a dental clinic, physical therapy, optometry, and behavioral health services. We are a designated NHSC site, and qualify for the IHS Loan Repayment Program.

For more information, please contact Darren Vicenti, MD, Clinical Director at (928) 737-6141 or darren.vicenti@ihs.gov. CVs can be faxed to (928) 737-6001.

Family Practice Physician

Chief Redstone Health Clinic, Fort Peck Service Unit, Wolf Point, Montana

We are announcing a job opportunity for a family practice physician at the Chief Redstone Clinic, Indian Health Service, Fort Peck Service Unit in Wolf Point, Montana. This is a unique opportunity for a physician to care for individuals and families, including newborns, their parents, grandparents, and extended family. Applicants must be culturally conscious and work well within a team environment. The Fort Peck Service Unit is located in the northeast corner of Montana along the Missouri river. Fort Peck Service Unit has two primary care clinics, one in the town of Poplar and one in the town of Wolf Point.

Our Medical Staff is composed of five family practice physicians, two internal medicine physicians, one pediatrician, one podiatrist, and four family nurse practitioners/physician assistants. We have a full complement of support services,

which include dental, optometry, audiology, psychology, social work, radiology, lab, public health nursing, and a very active Diabetes Department. These are ambulatory clinics; however our providers have privileges in the local community hospital. We have approximately 80,000 patient contacts per year. We work very closely with the private sector. IHS and the private hospital have a cardiac rehabilitation center. By cooperating with IHS, the hospital has been able to get a CT scanner and a mammography unit. Tribal Health has a dialysis unit attached to the Poplar IHS clinic. Customer service is our priority. The IHS has excellent benefits for Civil Service and Commissioned Corps employees. There are loan repayment options, and we are a designated NHSC site. We strive to provide quality care through a strong multidisciplinary team approach; we believe in being closely involved in our population to encourage a "Healthier Community."

There are many opportunities for recreation, as we are a short distance from the Fort Peck Dam and Reservoir. For more information about our area and community please go to the [website at http://www.ihs.gov/FacilitiesServices/AreaOffices/Billings/FtPeck/index.asp](http://www.ihs.gov/FacilitiesServices/AreaOffices/Billings/FtPeck/index.asp). Fort Peck tribes also can be found on www.fortpecktribes.org, and the Fort Peck Community College on www.fpcc.edu. Northeast Montana offers many amenities one might not expect this far off the beaten path. If you are interested please contact our provider recruiter, CDR Karen Kajiwara-Nelson, MS, CCC-A, at (406) 768-3491 or by e-mail at karen.kajiwara@ihs.gov. Alternatively, you can contact Dr. Craig Levy at (406) 768-3491, or e-mail craig.levy@ihs.gov, or the Billings Area Physician Recruiter, Audrey Jones, at (406) 247-7126 or e-mail audrey.jones@ihs.gov. We look forward to communicating with you.

**Pediatrician
Family Practice Physician
Pharmacist
Obstetrician/Gynecologist
PHS Indian Hospital; Browning, Montana**

The Blackfeet Service Unit is recruiting for health practitioners who want to join the staff at the PHS Indian Hospital, Browning, Montana. The Blackfeet Service Unit is home to the Blackfeet Community Hospital, a 27-bed hospital, active outpatient clinic, and well-equipped emergency department. Inpatient care includes obstetrics and elective general surgery. We also offer community health nursing, an active diabetes program, optometry, laboratory, dental, and ENT services along with behavioral and social services and women's health. We are seeking candidates who are committed to improving the health of the local community and being part of a team approach to medicine. The hospital is located 13 miles from Glacier National Park. This area offers spectacular mountains and incredible outdoor activities year round. There are loan repayment options, excellent benefits, and we are a designated NHSC site. If you are interested in joining our

medical team, contact Dr. Peter Reuman at peter.reuman@ihs.gov or telephone (406) 338-6150; or contact the Physician Recruiter, Audrey Jones, at audrey.jones@ihs.gov or telephone (406) 247-7126. We look forward to hearing from interested candidates.

**Family Practice Physician
Pharmacists
PHS Indian Hospital, Harlem, Montana**

The Fort Belknap Service Unit is seeking family practice physician and pharmacist candidates to join their dedicated staff. The service unit is home to a critical access hospital (CAH) with six inpatient beds, two observation beds, and a 24-hour emergency room, as well as an 8 am to 5 pm outpatient clinic. The service unit also operates another outpatient clinic 35 miles south of Fort Belknap Agency in Hays. The Fort Belknap CAH outpatient visits average 39,000 per year. The new clinic in Hays, the Eagle Child Health Center, can adequately serve 13,000 per year. The medical staff includes four family practice positions, two physician assistants, and one nurse practitioner, and has implemented the Electronic Health Record in the outpatient clinic. The service unit also has a full-time staffed emergency medical services program. The staff is complemented by contract *locum tenens* physicians for weekend emergency room coverage.

The medical staff is supported by and works with a staff of nurses, behavior health personnel, physical therapist, lab and x-ray personnel, pharmacists, dentists, administrators, housekeepers, supply specialists, and contract practitioners to provide the best possible care to patients. The staff works as a team to make a difference. Contract (private) hospitals are from 45 to 210 miles from the facility.

There are loan repayment options, excellent benefits, and we are a designated NHSC site. The area is primarily rural, and a friendly small-town atmosphere prevails here. The reservation communities promote various local activities such as rodeos, church socials, and basketball. The tribe also manages its own buffalo herd. Bigger events fill in the calendar as well, such as the Milk River Indian Days, Hays Powwow, and the Chief Joseph Memorial Days, featuring cultural activities and traditional dancing. The Fort Belknap Tribe has hunting and fishing available both on and off the reservation. The Little Rocky Mountains and the Missouri River provides scenic and enjoyable areas for the outdoor-minded. If you are interested in joining our medical team, contact Dr. Robert Andrews at robert.andrews@ihs.gov or telephone (406) 353-3195; or contact the Physician Recruiter, Audrey Jones, at audrey.jones@ihs.gov; telephone (406) 247-7126.

**Family Nurse Practitioner or Physician Assistant
Fort Peck Service Unit; Poplar, Montana**

We are announcing a job opportunity for a family nurse practitioner and/or physician assistant at the Verne E Gibbs

Health Center in Poplar, Montana and the Chief Redstone Health Clinic, Indian Health Service, Fort Peck Service Unit in Wolf Point, Montana. The Fort Peck Service Unit is located in the northeast corner of Montana along the Missouri river. Fort Peck Service Unit has two primary care clinics, one in the town of Poplar and one in the town of Wolf Point. The Medical Staff is composed of five family practice physicians, two internal medicine physicians, one pediatrician, one podiatrist, and four family nurse practitioners/physician assistants. We have a full complement of support services, which include dental, optometry, audiology, psychology, social work, radiology, lab, public health nursing, and a very active Diabetes Department that includes one nurse educator, one FNP, and one nutritionist. We strive to provide quality care through a strong multidisciplinary team approach; we believe in being involved in the community to encourage a "Healthier Community."

There are many opportunities for recreation, as we are a short distance from the Fort Peck Dam and Reservoir. For more information about our area and community please go to the <http://www.ihs.gov/FacilitiesServices/AreaOffices/Billings/FtPeck/index.asp> website at [http://www.ihs.gov/FacilitiesServices/AreaOffices/Billings/FtPeck/index.asp](mailto:karen.kajiwara@ihs.gov). We are looking for an applicant with well rounded clinical skills. Two years experience is preferred but new graduates are welcome to apply. Northeast Montana offers many amenities one might not expect this far off the beaten path. If you are interested please contact our provider recruiter, CDR Karen Kajiwara-Nelson, MS, CCC-A at (406) 768-3491 or by e-mail at karen.kajiwara@ihs.gov.

Family Practice Physicians

Dentists

Pharmacists

Crownpoint, New Mexico

The Crownpoint IHS facility has openings for two family practitioners with low risk obstetric skills (we will consider candidates without OB skills), two pharmacists, and two general dentists. Our service unit follows a family medicine model for providing full-spectrum care to our patients, with a dynamic medical staff that finds the work here quite rewarding. With a high HPSA rating, we are a NHSC-eligible site for payback and loan repayment.

Crownpoint is a town of about 2,500 people in the Four Corners region of New Mexico. We serve a traditional community of 25,000 Navajo people, many of whom speak only Navajo and live in traditional homes with no running water, electricity, or phone service. Our hospital has a six bed ER, a 17 bed med/peds unit, a labor and delivery/post-partum unit, and a large outpatient clinic. We have a total of 16 dental chairs, optometry, and mental health services, as well as on-site pharmacy, laboratory, radiology, and ultrasonography. Our medical/dental staff is a collegial and supportive group including ten family physicians, two pediatricians, an obstetrician/gynecologist, a psychiatrist, three PAs, three FNPs, four dentists, and a podiatrist. We have a very exciting,

full-spectrum medical practice that includes high-risk prenatal care, low-risk labor and delivery, emergency room care with management of trauma and orthopedics, and an interesting inpatient medicine and pediatric service.

As primary care physicians in a rural setting, we manage a wide variety of medical problems. We care for many patients with diabetes and hypertension, but we also see some unusual illnesses such as plague, Hantavirus, and snake bites. There are many opportunities for outpatient and ER procedures including suturing, therapeutic injections, closed reductions of fractures and dislocations, para/thoracentesis, chest tubes, LPs, colposcopy, sigmoidoscopy, and OB ultrasound.

While Crownpoint is small, there is a lot to do in the surrounding area. There are two junior colleges in town where many of us have taken Navajo language, weaving, and history classes. Some have gotten involved with local churches and children's activities. Outdoor activities are plentiful, with downhill and cross-country skiing, camping, and fishing all nearby. There are several excellent mountain biking and hiking trails, as well as Anasazi ruins that are right in Crownpoint. Albuquerque is two hours away and is our nearest large city with an international airport. Other destinations that are within an afternoon's drive include Santa Fe (three hours), Durango and the Rocky Mountains (two hours), Taos (four hours), Southern Utah's Moab and Arches/Canyonlands National Parks (four hours), Flagstaff (three hours) and the Grand Canyon (five hours).

For more information, contact Harry Goldenberg, MD, Clinical Director, at (505)786-5291, ext.46354; e-mail harry.goldenberg@ihs.gov; or Lex Vujan at (505) 786-6241; e-mail Alexander.vujan@ihs.gov.

Family Practice Physician

Pediatrician

Bristol Bay Area Health Corporation, Dillingham, Alaska

Bristol Bay Area Health Corporation (BBAHC) is a mature tribal compact located in scenic southwestern Alaska. The Bristol Bay Area Service Unit encompasses 44,000 square miles of Alaska country bordering the Bristol Bay region of the state. Over 400 employees provide primary care to 28 villages including two sub-regional villages, and a primary care hospital, Kakanak, located in Dillingham, Alaska. The Medical Staff consists of nine family physicians, a pediatrician, a nurse midwife, four dentists, a physical therapist and an optometrist, all providing primary care. The patient population consists of Yupik Eskimo, Aleut, and Athabascans who have been residents of the area for hundreds of years. Family physicians provide a broad spectrum of practice including obstetrics, inpatient medicine, emergency care and procedures such as colonoscopy, EGD, flexible sigmoidoscopy, colposcopy, and treadmill services in a very collegial and supportive atmosphere. Our solo pediatrician is allowed to practice full spectrum pediatrics with an extremely interesting patient mix and some very high risk and rare genetic disorders

unique to this area. The pediatrician works in a collegial manner with family physicians and is not required to perform any adult medicine or obstetrics, but solely pediatrics.

BBAHC was the first hospital in the country to establish a 638 contract and has an extremely good working relationship with their Board of Directors. Of note, the practice here in Alaska is unique, and air travel to outlying villages is required, since continuity care to the villages is very important to our care here and is uniquely rewarding. BBAHC has an extremely competitive salary and benefits package.

If interested, please contact Arnie Loera, MD, Corporate Medical Director, at (907) 842-9218, Kakanak Hospital/Bristol Bay Area Health Corporation, PO Box 130, Dillingham, Alaska 99576. You may also contact him by e-mail at aloera@bbahc.org. CVs can be faxed to (907) 842-9250, attn: Arnie Loera, MD. You may also view our website for information about our corporation at www.bbahc.org.

Family Practice Physician Santa Clara Indian Health Service Health Center; Española, New Mexico

The Santa Clara Indian Health Service Health Center is recruiting for a family practice physician for a full-time position. The medical department is staffed with three providers: one full-time family practice physician, one half-time family practice physician, one half-time internal medicine physician, and one full-time nurse practitioner or one full-time physician assistant position. This ambulatory care clinic is primary care-oriented with outpatient, dental, behavioral health, laboratory, radiology, optometry, psychiatry, podiatry, pediatrics, women's health, and other services. The referral facility is Santa Fe Indian Hospital in Santa Fe, New Mexico, located 30 miles away, from where many of the staff commute.

The Santa Clara Health Center is located in the Pueblo of Santa Clara in Northern New Mexico. This area is renowned for its famous black pottery and Puye cliff dwellings and has outdoor activities including their very own Big Rock Casino and Golf Course, skiing nearby at Santa Fe, Taos, or Angelfire, fishing, river rafting, biking, hiking, rock climbing, feasts, pow-wows, and many others. We are located approximately 80 miles northwest from Albuquerque, the largest city in New Mexico. The University of New Mexico is also located in Albuquerque.

The position is available as either Commissioned Corps or Civil Service (US citizens and Status Candidates). For more information, please contact Bindu Smelser, MD or Chico Livingston MD at Santa Clara Health Center, (505) 753-9421, or apply on the open continuous announcement number AAO-OC-602 to Albuquerque Area Indian Health Service, Division of Human Resources, 5300 Homestead Road, NE, Albuquerque, NM 87110; telephone (505) 248-4510. Contact Raelyn Pecos at (505) 248-4106 or raelyn.pecos@ihs.gov for a copy of the job announcement, or go to www.usajobs.gov, USAJOBS control number 806649.

Medical Technologist Tuba City Regional Health Care Corporation; Tuba City, Arizona

The Tuba City Regional Health Care Corporation, a 73-bed hospital with outpatient clinics serving 70,000 residents of northern Arizona, is recruiting for full-time generalist medical technologists. The laboratory has state-of-the-art equipment. We offer competitive salary, based on experience. Relocation benefits are available. New graduates are encouraged to apply for this position. Tuba City is located on the western part of the Navajo reservation approximately 75 miles north of Flagstaff, Arizona, with opportunities for outdoor recreation and cultural experiences with interesting and adventurous people.

For more information, please contact Minnie Tsingine, Laboratory Supervisor, at (928) 283-2716 or minnie.tsingine@tcimc.ihs.gov. For an application, please contact Human Resources at (928) 283-2041/2432 or mfrancis@tcimc.ihs.gov.

Family Physician Winslow Indian Health Care Center; Winslow, Arizona

The Winslow Indian Health Care Center (WIHCC) in northern Arizona is currently looking for a family practice physician who is interested in a broad scope of practice, preferably including obstetrics. We have a staff of 12 physicians, including a surgeon, and eight family nurse practitioners. We offer comprehensive ambulatory and urgent/emergent care to patients at our health center in Winslow, where we are currently completing construction on a state-of-the-art, seven bed Urgent Care Center. WIHCC also operates two field clinics five days a week on the Navajo Reservation, at Leupp and Dilkon. Our physicians provide inpatient care at the local community hospital, the Little Colorado Medical Center, where obstetrical back-up is readily available. Winslow offers an awesome mix of professional, cultural, and recreational opportunities. We are located just seven miles from the breathtaking beauty of Navajoland and its people, and 50 miles from Flagstaff — a university town with extensive downhill and cross-country skiing, where several of our staff choose to live.

WIHCC became an ISDA 638 contracted site in 2002, and has experienced steady growth and enhancement of programs and opportunities since the transition from a direct IHS program. Please contact Frank Armao, MD, Clinical Director, if you are interested in pursuing an opportunity here. E-mail frank.armao@wihcc or telephone (928) 289- 6233.

Family Medicine Physicians Phoenix Indian Medical Center, Phoenix Arizona

The Family Medicine Department is recruiting for BC/BE family physicians at the Phoenix Indian Medical Center and the satellite clinic at Salt River. The positions are predominantly outpatient with limited hospital inpatient activity; OB optional.

Join eight physicians, one nurse practitioner, one physician's assistant, and a number of part-time providers. PIMC is one of the largest IHS sites, with over 100 providers and 70 active beds. We have been using PCC+ and in part EMR. There are great opportunities socially, culturally, professionally, and educationally living in the Phoenix metropolitan area. The IHS has a great benefits package for Civil Service and Commissioned Corps. Loan payback is an option. For more information, please contact/send CV to Eric Ossowski MD, Family Medicine Department, Phoenix Indian Medical Center, 4212 N. 16th Street, Phoenix Indian Medical Center, Phoenix, Arizona 85016. Telephone (602) 263-1537; fax (602) 263-1593; or e-mail eric.ossowski@ihs.gov.

**Family Practice Physician
Gallup Indian Medical Center; Gallup, New Mexico**

The Gallup Indian Medical Center has an immediate opening for a family medicine physician. GIMC is one of the largest Indian Health Service sites. The IHS has great benefits packages for both Civil Service and Commissioned Corps providers. We are an NHSC scholarship and an IHS Loan Repayment site as well. The Department of Family Medicine offers the opportunity for full spectrum family medicine care. There are currently nine physicians, two physician assistants, and one pharmacist clinician in the department. Chronic disease management and prevention are the focus for continued development and expansion of this department and program. The hospital has a multi-specialty group, and family medicine physicians have inpatient privileges at GIMC as well as at the community hospital, Rehoboth McKinley Christian Hospital.

Please contact Dr. Alma Alford, Chief of Family Medicine, if you are interested in pursuing an opportunity here. The address is Gallup Indian Medical Center, 516 E. Nizhoni Blvd., P.O. Box 1337, Gallup, New Mexico 87301-1337; telephone (505) 722-1000; fax (505) 726-8740; office number (505) 722-1280 or 722-1775; e-mail alma.alford@ihs.gov.

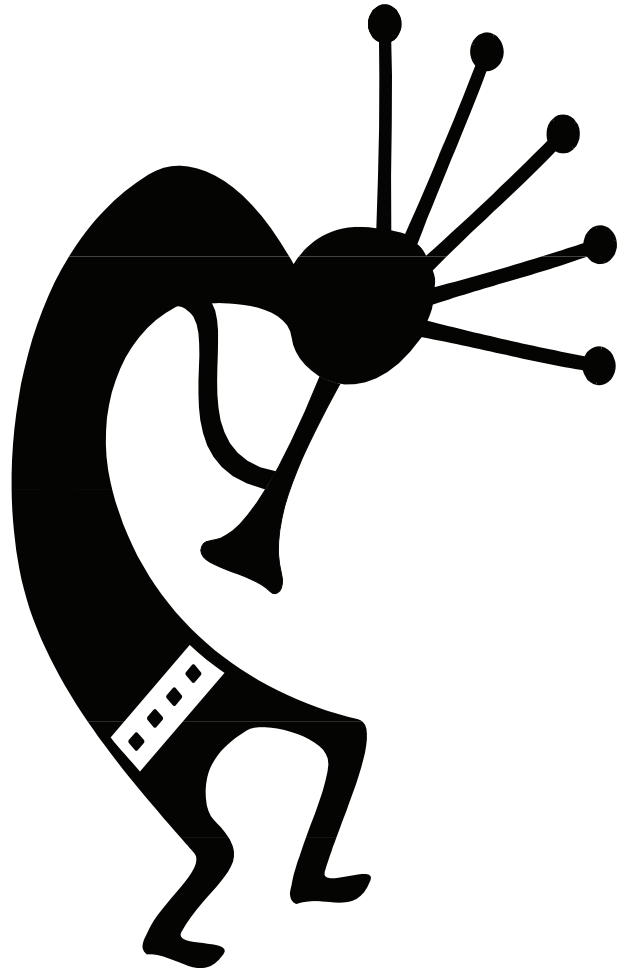
**Physician
Nurse Practitioner
Redbird Smith Health Center; Sallisaw, Oklahoma**

The Redbird Smith Health Center has immediate openings for a full-time family medicine or internal medicine physician and a nurse practitioner. This facility, located in Sallisaw, is one of six rural ambulatory clinics operated by the Cherokee Nation. Other services offered at this facility include dental, radiology, public health nursing, in-depth diabetes program, pharmacy, and laboratory. Cherokee Nation offers competitive salaries, excellent benefits, loan repayment options, no weekends, no call, and relocation expenses are available.

If interested in any of these exciting opportunities, please submit a completed Cherokee Nation application along with copies of degrees and/or certificates to Cherokee Nation Health Administration Office, Attn: Kathy Kilpatrick or Angie Cone, PO Box 948, Tahlequah, Oklahoma 74465; telephone

(918) 453-5000; fax (918) 458-6174; or e-mail kathy-kilpatrick@cherokee.org or angie-cone@cherokee.org. We would also like to extend an invitation to come and visit our clinic – we feel confident you'll love our charming southern hospitality!

For more detailed information regarding job listings or for an application, log onto our website at www.cherokee.org. Applicants with Indian preference must submit a copy of their Certificate Degree of Indian Blood (CDIB) along with their application. All applicants will be required to pass a pre-employment drug screen and complete a background check.





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THE IHS PRIMARY CARE PROVIDER



A journal for health professionals working with American Indians and Alaska Natives

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