Utilization of IHS and tribal direct and contract general hospitals, fiscal year 1996 and U.S non-federal short-stay hospitals, calendar year 1996.

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TABLE OF CONTENTS

INTRODUCTION ........................................................................................................... 1

SOURCES OF DATA .................................................................................................... 2

ALL DISCHARGES ....................................................................................................... 2

CAUSES OF HOSPITALIZATION ............................................................................. 3

AGE DISTRIBUTION ................................................................................................. 4

DISCHARGES FOR PATIENTS UNDER 15 YEARS OLD ........................................... 5

DISCHARGES FOR PATIENTS 15-44 YEARS OLD .................................................. 6

DISCHARGES FOR PATIENTS 45-64 YEARS OLD .................................................. 7

DISCHARGES FOR PATIENTS 65 YEARS OLD AND OVER ...................................... 8

AGE AND SEX DISTRIBUTION ................................................................................ 9

DISCHARGES FOR MALE PATIENTS ....................................................................... 9

DISCHARGES FOR FEMALE PATIENTS ................................................................ 10

UTILIZATION BY PROCEDURES .......................................................................... 11

PROCEDURES BY AGE GROUP .............................................................................. 12

CONCLUSIONS ....................................................................................................... 14

FIGURES

1. Number of Discharges by Leading Causes, FY 1996
   IHS and Tribal Direct and Contract General Hospitals
   Patients of All Ages ..................................................................................................... 19

2. Ratio of Age-Adjusted IHS to U.S. All Races
   Discharge Rates for Leading Causes, FY 1996
   Patients of All Ages ..................................................................................................... 19

3. Ratio of Age-Adjusted IHS to U.S. White
   Discharge Rates for Leading Causes, FY 1996
   Patients of All Ages ..................................................................................................... 19

4. Number of Discharges by Leading Causes, FY 1996
   IHS and Tribal Direct and Contract General Hospitals
   Patients Under 15 Years Old .......................................................................................... 20

5. Ratio of IHS to U.S. All Races Discharge Rates
   for Leading Causes, FY 1996
   Patients Under 15 Years Old .......................................................................................... 20
6. Number of Discharges by Leading Causes, FY 1996  
IHS and Tribal Direct and Contract General Hospitals  
Patients 15-44 Years Old ........................................... 20

7. Ratio of IHS to U.S. All Races Discharge Rates  
for Leading Causes, FY 1996  
Patients 15-44 Years Old ........................................... 20

8. Number of Discharges by Leading Causes, FY 1996  
IHS and Tribal Direct and Contract General Hospitals  
Patients 45-64 Years Old ........................................... 21

9. Ratio of IHS to U.S. All Races Discharge Rates  
for Leading Causes, FY 1996  
Patients 45-64 Years Old ........................................... 21

10. Number of Discharges by Leading Causes, FY 1996  
IHS and Tribal Direct and Contract General Hospitals  
Patients 65 Years Old and Over ................................... 21

11. Ratio of IHS to U.S. All Races Discharge Rates  
for Leading Causes, FY 1996  
Patients 65 Years Old and Over ................................... 21

12. Number of Discharges by Leading Causes, FY 1996  
IHS and Tribal Direct and Contract General Hospitals  
Male Patients All Ages ............................................... 22

13. Ratio of Age-Adjusted IHS to U.S. All Races  
Discharge Rates for Leading Causes, FY 1996  
Male Patients All Ages ............................................... 22

14. Number of Discharges by Leading Causes, FY 1996  
IHS and Tribal Direct and Contract General Hospitals  
Female Patients All Ages ............................................ 22

15. Ratio of Age-Adjusted IHS to U.S. All Races  
Discharge Rates for Leading Causes, FY 1996  
Female Patients All Ages ............................................ 22

16. Number of Procedures by Leading Types, FY 1996  
IHS and Tribal Direct and Contract General Hospitals  
Patients All Ages ..................................................... 23
17. Ratio of IHS to U.S. All Races Rates for Leading Types of Procedures, FY 1996
Patients of All Ages .................................................................23

18. Ratio of IHS to U.S. White Rates for Leading Types of Procedures, FY 1996
Patients of All Ages .................................................................23

TABLES
A. Ten Leading Causes of Hospitalization for Patients of All Ages
IHS and Tribal Direct and Contract General Hospitals, FY 1996
U.S. Non-Federal Short-Stay Hospitals, CY 1996 ..................24

B. Ten Leading Causes of Hospitalization for Patients Under 15 Years Old
IHS and Tribal Direct and Contract General Hospitals, FY 1996
U.S. Non-Federal Short-Stay Hospitals, CY 1996 ..................25

C. Ten Leading Causes of Hospitalization for Patients 15-44 Years Old
IHS and Tribal Direct and Contract General Hospitals, FY 1996
U.S. Non-Federal Short-Stay Hospitals, CY 1996 ..................26

D. Ten Leading Causes of Hospitalization for Patients 45-64 Years Old
IHS and Tribal Direct and Contract General Hospitals, FY 1996
U.S. Non-Federal Short-Stay Hospitals, CY 1996 ..................27

E. Ten Leading Causes of Hospitalization for Patients 65 Years and Older
IHS and Tribal Direct and Contract General Hospitals, FY 1996
U.S. Non-Federal Short-Stay Hospitals, CY 1996 ..................28

F. Ten Leading Causes of Hospitalization for Males, All Ages
IHS and Tribal Direct and Contract General Hospitals, FY 1996
U.S. Non-Federal Short-Stay Hospitals, CY 1996 ..................29

G. Ten Leading Causes of Hospitalization for Females, All Ages
IHS and Tribal Direct and Contract General Hospitals, FY 1996
U.S. Non-Federal Short-Stay Hospitals, CY 1996 ..................30

H. Number and Rate of All-Listed Procedures by Type
IHS and Tribal Direct and Contract General Hospitals, FY 1996
U.S. Non-Federal Short-Stay Hospitals, CY 1996 ..................31
I. Number and Rate of Leading Types of Procedures for Patients Under 15 Years Old
IHS and Tribal Direct and Contract General Hospitals, FY 1996
U.S. Non-Federal Short-Stay Hospitals, CY 1996 ......................................... 32

J. Number and Rate of Leading Types of Procedures for Patients 15-44 Years Old
IHS and Tribal Direct and Contract General Hospitals, FY 1996
U.S. Non-Federal Short-Stay Hospitals, CY 1996 ......................................... 33

K. Number and Rate of Leading Types of Procedures for Patients 45-64 Years Old
IHS and Tribal Direct and Contract General Hospitals, FY 1996
U.S. Non-Federal Short-Stay Hospitals, CY 1996 ......................................... 34

L. Number and Rate of Leading Types of Procedures for Patients 65 Years Old and Older
IHS and Tribal Direct and Contract General Hospitals, FY 1996
U.S. Non-Federal Short-Stay Hospitals, CY 1996 ......................................... 35
INTRODUCTION

This report discusses the utilization of hospital inpatient services provided by the Indian Health Service (IHS) and the tribes in fiscal year (FY) 1996. Information is tabulated by the age, sex, and principal (first-listed) diagnosis¹ of the patients. To correspond to the usual practice of presenting hospital discharge data, discharges from the newborn section of the hospital have been excluded from this report.

Inpatient care was available at 37 general hospitals operated by the IHS, 12 tribally-operated hospitals, and hundreds of community hospitals with which the IHS and tribes negotiate contracts or informal agreements on a reimbursable basis. Inpatient care is generally available to persons of Indian descent who reside on or near the reservation of their federally-recognized tribe, or on or near a reservation where social and economic ties are closely maintained.

The data in this report were collected from IHS-operated hospitals, tribally-operated hospitals, and community hospitals that are contracted by IHS or the tribes². IHS is organized into 12 administrative regions or Areas. This report covers 11 of the 12 Areas, because the California Area does not have any IHS or tribally-operated hospitals and did not report any IHS or tribal contract hospital workload into the IHS statistical data system.

Detailed tables at the end of this report include the population and number of hospital discharges by sex and age (Detailed Table 1); the number of discharges (direct and contract hospitals) by principal diagnosis, age, and sex (Detailed Tables 2-6); the number of all listed procedures by hospital ownership and type of procedure (Detailed Table 7); the number of all listed procedures by age group and type of procedure (Detailed Table 8); and the number of discharges, days, and average length of stay by principal diagnosis for each IHS Area (Detailed Tables 9 and 10).

Included in this report is a comparison of the IHS and tribal hospital experience to the use of non-Federal short-stay hospitals by the U.S. civilian all races, and where possible white populations, in calendar year (CY) 1996. Comparisons are made by the use of discharge rates (the number of discharges per 10,000 population) and procedure rates (the number of procedures per 10,000 population). When applicable, age-adjusted³ IHS hospital discharge and procedure rates are used. This allows for a more meaningful comparison of the IHS discharge rates to the U.S. rates, because of the different age compositions of the two populations.

¹ The principal diagnosis is the condition established after study to be chiefly responsible for occasioning the admission of the patient to the hospital care.

² The data on tribal direct and contract hospitals may not be complete because not all facilities are reporting through the IHS statistical data system.

³ IHS age-specific discharge rates were weighted by the U.S. age distribution for 1996.
SOURCES OF DATA

IHS and tribal data are derived from the medical records of patients discharged from IHS and tribal direct and contract hospitals. The source documents are the Clinical Record Brief (Form IHS-44-1) and the Contract Health Service (CHS) Purchase Order for Hospital Services Rendered (Form IHS-43-1A). These forms are received from direct and contract hospitals, respectively.

Data from the Clinical Record Brief are entered into the Admission/Discharge Transfer package, which is linked to the Patient Care Component (PCC) of the Resource and Patient Management System (RPMS). RPMS is an integrated group of automated data systems designed to operate on mini-computers located in IHS and tribal health facilities.

The export process begins at the facility. An export file is electronically transmitted from the facility to the IHS Area Office. The data are converted and merged at the Area Office and then transmitted to the IHS Division of Information Resources (DIR) for editing, collating, and processing.

Data from the CHS form are entered into the CHS package which is also linked to the PCC. A separate export is done for the CHS package and sent to the IHS Area Office. At the Area Office the data are merged from the facilities and sent to the CHS fiscal intermediary where the statistical data are edited and extracted. Subsequently, the data are sent to DIR for further editing, collating, and processing. Tribal contract data are processed by the IHS Areas and submitted to DIR.

The U.S. data were based on unpublished and published data from the Health Care Statistics Division, National Center for Health Statistics (NCHS), Department of Health and Human Services. Data by race were available for total discharges, but not by age or sex.

The diagnostic coding was based upon the ICD-9-CM classification system. In order to make the IHS and U.S. data comparable, deliveries were included in the obstetric deliveries and complications of pregnancy and the puerperium diagnostic category.

ALL DISCHARGES

In FY 1996, there were 81,161 discharges from IHS and tribal direct and contract general hospitals (hereafter referred to as IHS hospitals). These hospitals served an estimated Indian user population\(^4\) of 1,190,817. This yields an unadjusted rate of 681.6 discharges per 10,000 population.

\(^4\) The count of American Indians and Alaska Natives registered in the IHS Patient Registration System who have had a direct or contract inpatient, ambulatory, or dental visit within the last three years.
The IHS age-adjusted rate was 836.8 discharges per 10,000 population; this compared to 1,157.0 discharges per 10,000 for the civilian U.S. all races population and 902.3 for the civilian white population in calendar year (CY) 1996 (Figure 1). The IHS rate was 28 percent less than the U.S. all races rate, but only 7 percent less than the U.S. white rate. However, it should be noted that race was "not stated" on 20 percent of the U.S. discharges. Since such discharges were excluded from the calculations, the white rate may have been much higher, and, if so, the difference between the IHS rate and the white rate would be much more.

Since 1992, the IHS, U.S. all races, and U.S. white rates have all declined. The age-adjusted IHS rate has dropped 8.7 percent, while the U.S. all races and while rates fell about 5 percent. The FY 1992 IHS hospital age-adjusted discharge rate was 916.6; this was 25 percent below the CY 1992 U.S. all races rate (1221.0) and 3 percent below the U.S. white rate (945.6). The FY 1994 age-adjusted IHS rate (889.5) was below the CY 1994 U.S. all races and white rates by similar percentages. However, as noted above, the FY 1996 IHS rate was 28 percent below the U.S. all-races rate and 7 percent below the U.S. white rate.

CAUSES OF HOSPITALIZATION

Table A lists the ten leading causes of hospitalization for the IHS hospitals by major diagnostic category. These ten leading causes represented 87.3 percent of all the IHS discharges in FY 1996. Table A also provides discharge rates for these categories for the U.S. all races and the U.S. white populations in CY 1996. The five leading causes for IHS hospitals are shown graphically in Figure 1. The ratio between the IHS and U.S. all races discharge rates for these five leading causes are shown in Figure 2, while the ratios between IHS and U.S. white rates are shown in Figure 3.

Obstetric deliveries and complications of pregnancy and the puerperium was the leading diagnostic category at IHS hospitals. This category accounted for 14,570 discharges, which was 18.0 percent of the total discharges. In other words, more than one out of every six discharges from IHS hospitals was related to deliveries and complications of pregnancy and the puerperium. Even so, the age-adjusted rate of 116.8 discharges per 10,000 IHS user population for this category was 29 percent below the U.S. all races rate (165.4), but was 4 percent higher than the U.S. white rate of 112.6.

The second leading cause of hospitalization at IHS hospitals was respiratory system diseases, accounting for 11,448 discharges or 14.1 percent of the total. The age-adjusted rate was 110.7 per 10,000 discharges. In comparison, the age-adjusted rates for U.S. all races and U.S. white were 122.6 and 93.5, respectively. Thus, the IHS discharge rate was 10 percent below the U.S. all races rate, but was 18 percent higher than the U.S. white rate.
Digestive system diseases was the third leading cause of hospitalization at IHS hospitals (10,181 discharges, 12.5 percent of the total). No other disease category accounted for more than 10 percent of the IHS discharges.

Eight of the ten leading causes of hospitalization at IHS hospitals were also among the ten leading causes for the U.S. all races: (1) obstetric deliveries, and complications of pregnancy and the puerperium (ranked first in IHS hospitals and second in U.S. hospitals); (2) respiratory system diseases (second, third); (3) digestive system diseases (third, fourth); (4) injury and poisoning (fourth, fifth); (5) circulatory system diseases (fifth, first); (6) genitourinary system diseases (seventh, eighth); (7) endocrine, nutritional and metabolic diseases, and immunity disorders (eighth, tenth); and (8) mental disorders (ninth, sixth).

The remaining two leading causes at IHS hospitals had considerably higher discharge rates than those at U.S. hospitals. The discharge rate for symptoms, signs, and ill-defined conditions, the sixth leading cause at IHS hospitals with an age-adjusted rate of 60.5 discharges per 10,000 population, was only 11.4 for U.S. all races and 9.0 for U.S. whites. Thus, the IHS rate was 5.3 times the U.S. all races rate and 6.7 times the U.S. white rate. Diseases of the skin and subcutaneous tissue was the tenth leading cause at IHS hospitals with a rate of 33.7. This was nearly twice the U.S. all races rate (17.1) and 2.6 times the U.S. white rate (12.9).

AGE DISTRIBUTION

Detailed Table 1 shows the distribution of hospital discharges by age and sex for both the IHS hospitals and U.S. all races. As shown in the table, there was a considerable difference in the percentage of total discharges by age group between IHS hospitals and U.S. all races.

For instance, 16 percent of the total discharges were for the under-15-year-old age group at IHS hospitals; this percentage was more than twice that of the U.S. all races (7 percent). This can partly be explained by the difference in the distribution of the IHS user population and the U.S. all races population; the IHS population is much younger than the U.S. all races population. Nearly 35 percent of the IHS user population was under 15 years old, compared to only 22 percent for the U.S. all races.

Conversely, the 65-years-and-over age group accounted for 16 percent of the total IHS discharges, while this age group represented 38 percent of the U.S. all races discharges. However, this age group accounted for only 6 percent of the IHS user population, while it represented 13 percent of the U.S. all races population. With 38 percent of the total U.S. all races discharges, this age group had the largest number of discharges of the four age groups. However, with only 16 percent of the IHS discharges, it had the smallest number of IHS discharges among the four age groups.
Comparing discharge rates by the four specified age groups, the IHS rate was somewhat lower than the U.S. all races in the under 15 years (15 percent lower), 15-44 years (22 percent lower), and 45-64 years (8 percent lower) categories. However, in the 65-years-and-over age group, the IHS discharge rate was considerably (46 percent) lower than the U.S. all races rate.

**DISCHARGES FOR PATIENTS UNDER 15 YEARS OLD**

There were 13,148 discharges for patients under 15 years old. This represented 16.2 percent of the total IHS discharges in FY 1996. This continues a steady decline in the percentage of total for this age group. In FY 1994, under 15 year olds accounted for 16.6 percent and in FY 1992 17.4 of the total IHS discharges.

The FY 1996 IHS discharge rate was 326.0 per 10,000 population under 15 years old; this was 15 percent less than the U.S. all races "under-15" discharge rate of 382.4.

The ten leading causes of IHS hospitalizations are shown in Table B. In addition, discharge rates for the IHS and U.S. all races for these causes are also displayed. The number of discharges for each of the five leading causes at IHS hospitals is shown graphically in Figure 4, while the ratios between the IHS and U.S. races discharge rates for these five causes are shown in Figure 5.

Diseases of the respiratory system was by far the leading diagnostic category of hospitalization for both the IHS hospitals and the U.S. all races for this age group. This category represented 42 percent of the IHS and 30 percent of the U.S. all races discharges. The IHS discharge rate of 138.1 was 22 percent higher than the U.S. all races rate of 113.2.

Discharges for respiratory system diseases have been increasing. In FY 1996, there were 5,570 discharges from IHS hospitals; this was an increase of 3.3 percent from FY 1994 (while the total number of discharges for this age group decreased 6.4 percent). The percent of total increased to 42 percent from 38 percent in FY 1994 and 39 percent in FY 1992.

In the IHS hospitals and for the U.S. all races, digestive system diseases (IHS rate = 32.0, U.S. all races rate = 35.6) and injury and poisoning (29.9, 38.6) were the second and third leading causes of discharges. Prior to 1996, injury and poisoning was the second leading cause at IHS hospitals; however, its discharge rate dropped from 33.1 in FY 1994, while the discharge rate for digestive system diseases rose slightly (FY 1994 rate was 31.6).

American Indian children were hospitalized for symptoms, signs, and ill-defined conditions much more than the children in the U.S. all races population. This was the fourth leading cause at IHS hospitals but was not among the top ten causes for U.S. all races. The IHS rate (24.4) was nearly three times the U.S. all races rate (9.0).
The only other leading cause at IHS hospitals that was not in the ten leading causes of U.S. all races discharges for this age group was diseases of the skin and subcutaneous tissue (IHS rate = 11.0, U.S. all races rate = 7.7). The IHS rate was 43 percent higher than the U.S. all races rate.

**DISCHARGES FOR PATIENTS 15-44 YEARS OLD**

Patients 15-44 years old had 38,258 discharges at IHS hospitals in FY 1996. This was nearly one-half (47 percent) of all of the IHS discharges. However, this age group has been declining in terms of number and percent of total. In FY 1994, there were 40,780 discharges (48 percent of the total), and in FY 1992 there were 43,316 discharges (50 percent).

The FY 1996 IHS rate for 15-44 year olds was 682.2 discharges per 10,000 population (Table C). This was 22 percent below the CY 1996 U.S. all races rate (869.6). The IHS rate has been declining faster than the U.S. all races rate. In FY 1992, the IHS rate was 847.4 (24 percent higher than the FY 1996 rate), while the U.S. all races rate was 960.0; at that time the IHS was only 11 percent below the U.S. all races rate. In FY 1994, the IHS rate was 20 percent below the U.S. rate.

Figure 6 shows the number of discharges for the five leading causes at IHS hospitals in FY 1994, while Figure 7 displays the ratios between the IHS and U.S. all races discharge rates.

Obstetric deliveries and complications of pregnancy and the puerperium was the leading cause of hospitalization for both the IHS and U.S. all races. However, the IHS discharge rate (258.7) was 29 percent less than the U.S. all races rate (366.4). In 1992, the difference was only 9 percent. The FY 1996 IHS discharge rate was significantly less than the rate of 354.0 in FY 1992. The CY 1996 U.S. all races rate decreased only slightly from the CY 1992 rate (389.4). The number of discharges at IHS hospitals for this category decreased from 18,098 in FY 1992 to 14,509 in FY 1996.

Digestive system diseases was the second leading cause of hospitalization at IHS hospitals in FY 1996, but it was the fourth leading cause for the U.S. all races. The IHS rate (85.2) was 36 percent higher than the U.S. all races rate (62.8).

Injury and poisoning was the third leading cause at IHS hospitals and for the U.S. all races. The IHS discharge rate (77.3) was 6 percent more than the U.S. all races rate (72.8).

As with patients under 15 years old, injury and poisoning was previously the second leading cause at IHS hospitals, but its discharge rate declined from FY 1994 (90.5), while the discharge rate for digestive system diseases rose slightly (84.9 in FY 1994).
Mental disorders was the fourth leading cause at IHS hospitals; it was the second for the U.S. all races. The IHS rate of 44.9 was much lower (53 percent lower) than the U.S. all races rate of 96.5. This result was very surprising, given the well-documented problems American Indians have with alcoholism.

The 15-44-year-old American Indians had a much higher discharge rate for symptoms, signs, and ill-defined conditions than the same age group in the U.S. all races. The IHS rate (27.6) was nearly three times the U.S. all races rate (9.6).

**DISCHARGES FOR PATIENTS 45-64 YEARS OLD**

There were 17,169 discharges for the 45-64 year old age group in FY 1996; this represented 21 percent of the total IHS discharges. While the number declined slightly from FY 1994 (17,349), the percent of total increased slightly (from 20.5 to 21.2). It was a considerable increase in both number and percent of total from FY 1992 (16,348, 18.8).

The FY 1996 discharge rate for patients between 45 and 64 years old at IHS hospitals (1,080.2) was 8 percent below the U.S. all races rate (1,172.2) (Table D). Both decreased from 1994 when the IHS rate was 1,171.0 and the U.S. all races rate was 1,241.1, a 6 percent difference.

The number of discharges for the five leading causes is shown graphically in Figure 8. The ratios of the IHS and U.S. discharge rates for these five leading causes are shown in Figure 9.

Circulatory system diseases and digestive system diseases were the first and second leading causes of hospitalization in IHS hospitals. They were also the leading causes for the U.S. all races. The IHS rates for these two diseases were similar; however, for the U.S. all races, the circulatory system rate was more than twice as high as the digestive system rate. The IHS rate for circulatory system diseases (171.0) was 46 percent lower than the U.S. all races rate (317.7), while the IHS rate for digestive system diseases (169.4) was 20 percent higher than the U.S. all races rate (141.1).

In FY 1994, digestive system diseases (189.2) had a higher discharge rate at IHS hospitals than circulatory system diseases (178.7). However, the digestive system disease rate dropped considerably more than the circulatory system disease rate.

Respiratory system diseases and symptoms, signs, and ill-defined conditions were the third and fourth leading causes of IHS hospitalizations. Respiratory system diseases was the fourth leading cause for the U.S. all races. The IHS rate of 111.9 was 3 percent higher than the U.S. all races rate (108.8).

Although the symptoms, signs, and ill-defined conditions category was the fourth leading cause of IHS hospitalizations, it was not among the ten leading causes for the
U.S. all races. The IHS rate (105.6) was over seven times the U.S. all races rate (14.0).

Diseases of the skin and subcutaneous tissue, the eighth leading cause among IHS discharges but not in the leading ten for U.S. all races, also had a much higher rate at IHS hospitals than for the U.S. all races. The IHS rate (61.3) for this category was nearly three times the U.S. all races rate (22.3).

Neoplasms was the third leading cause of hospitalization for the U.S. all races, but was only eighth at IHS hospitals. The U.S. all races rate (113.9) and more than double the IHS rate (53.5). Diseases of the musculoskeletal system and connective tissue also had a much higher U.S. all races rate (80.1) than the IHS rate (44.8).

**DISCHARGES FOR PATIENTS 65 YEARS OLD AND OVER**

Discharges for patients 65 years old and over totaled 12,586, or 15.5 percent of the IHS total in FY 1996. This was an increase in both number and percentage of total from FY 1994 (12,261, 14.5) and FY 1992 (12,029, 13.9).

The IHS rate for patients 65 years and over was 1,863.7 discharges per 10,000 population. This was 46 percent lower than the U.S. all races rate of 3,460.7 (Table E). The IHS rate declined slightly from FY 1994 (1,890.3), while the U.S. all races rate increased slightly from CY 1994 (3,415.9), widening the spread between the IHS and U.S. rates slightly.

Figure 10 shows the number of discharges for the five leading causes, while Figure 11 displays graphically the ratios between the IHS and U.S. all races discharge rates for these causes.

Circulatory system diseases was the leading cause of hospitalization for both the IHS and the U.S. all races populations. However, the IHS rate (401.7) was 66 percent lower than the U.S. all races rate (1,170.4); in other words, the IHS rate was only about one-third as much as the U.S. all races rate.

Respiratory system diseases and digestive system diseases were the second and third leading causes of hospitalization in IHS hospitals and for U.S. all races. However, the IHS rates were well below those for the U.S. all races rates. The IHS rate for respiratory system diseases (335.2) was 27 percent lower than the U.S. all races rate (457.8), while the IHS rate for digestive system diseases (210.0) was 41 percent lower than the U.S. all races rate (353.7).

These three diseases accounted for over one-half (51 percent) of all of the IHS hospital discharges for this age group.
The fourth leading IHS hospitalization cause was symptoms, signs, and ill-defined conditions. The IHS rate (166.0) was more than nine times the U.S. all races rate (18.0). This category accounted for 8.9 percent of the IHS discharges, but only 0.5 percent of the U.S. all races discharges for this age group.

**AGE AND SEX DISTRIBUTION**

The distribution of discharges for IHS hospital patients by age and sex varied considerably when compared to the U.S. all races patients. As noted previously, this is partially explained by the difference in the age distribution of the American Indian and U.S. all races populations.

As shown in Detailed Table 1, male patients in the under-15-year-old category represented 8.8 percent of the total IHS discharges; this was more than twice that of the U.S. all races (4.1 percent). In the American Indian population, males under 15 years old accounted for 17.2 percent of the total; this was one and one-half times the percentage (11.2) for males under 15 years old in the U.S. all races population.

Males 65 years old and over represented just 6.9 percent of the IHS discharges while comprising 16.0 percent of the U.S. all races discharges. In the IHS and U.S. all races populations, this age-sex group accounted for only 2.4 and 5.3 percent of the total, respectively.

Females represented a large percentage of all discharges from IHS hospitals (60.2) and for U.S. all races (60.4). Females under 15 years old accounted for 7.4 percent of the total IHS hospital discharges, but only 3.2 percent for U.S. all races. Nearly one-third (32.7 percent) of the total IHS discharges were for females 15-44 years old, but only one-quarter (24.5 percent) of the U.S. all races discharges were in this category. Conversely, the females in the 65-years-and-over category accounted for just 8.6 percent of all the IHS discharges, while this category represented 22.3 percent of the U.S. all races discharges.

**DISCHARGES FOR MALE PATIENTS**

Males were responsible for 32,329 discharges from IHS hospitals in FY 1996. This was 40 percent of the total IHS discharges. This percentage has not changed more than 1 percent since FY 1992, and also is the same as the U.S. all races percentage for these years.

The IHS age-adjusted discharge rate for males in FY 1996 was 716.6 per 10,000 population, 24 percent lower than the U.S. all races rate of 941.0 (Table F). In 1992, the IHS rate was also 24 percent below the U.S. all races rate.
Figure 12 shows graphically the number of discharges for the five leading causes of IHS male hospitalizations; Figure 13 shows the ratios between the IHS and U.S. all races rates for these causes.

The leading cause of hospitalization of males in IHS hospitals was respiratory system diseases (5,648 discharges); this category was second for the U.S. all races. However, the IHS age adjusted rate (107.7) was 10 percent lower than the U.S. all races rate (120.0). The second leading cause of IHS hospitalization was injury and poisoning (4,663 discharges); it ranked fourth for the U.S. all races. The IHS rate (92.0) was 7 percent below the U.S. all races rate (99.2).

Digestive system diseases (4,487 discharges) and circulatory system diseases (3,438) ranked third and fourth, respectively, as the leading causes of discharges for males from IHS hospitals. The IHS rate for digestive system diseases (98.7) was only 2 percent lower than the U.S. all races rate (100.6). The IHS rate for circulatory system diseases (102.7) was much lower (57 percent lower) than the U.S. all races rate (241.0). Circulatory system diseases was the leading cause for the U.S. all races; digestive system diseases was the fourth leading cause.

These four diagnostic categories accounted for over one-half of the IHS (56.4 percent) and U.S. all races (59.6) discharges for males.

American Indian males were hospitalized for symptoms, signs, and ill-defined conditions much more than the males in the general U.S. population. This diagnostic category was the fifth leading cause of male discharges at IHS hospitals. It accounted for 7.8 percent of the IHS male discharges, but only 1.2 percent of the U.S. all races total for males. The IHS rate (58.7) for this category was five times the U.S. all races rate (10.9). Also, IHS male patients were hospitalized for diseases of the skin and subcutaneous tissue at more than twice the rate of males of all races in U.S. hospitals (38.8 versus 18.3).

**DISCHARGES FOR FEMALE PATIENTS**

There were 48,429 discharges for females from IHS hospitals in FY 1996. They accounted for 60 percent of the total IHS discharges. For the U.S. all races, female discharges also represented 60 percent of the total.

The IHS age-adjusted discharge rate for females was 924.8 per 10,000 population; this was 32 percent below the U.S. all races rate of 1,362.5 (Table G). The difference between the IHS and U.S. all races rates has been widening; the IHS rate has been declining faster than the U.S. all races rate. In 1994 the difference between the two rates was 29 percent, and in 1992 it was 26 percent. Since 1992 the IHS rate has declined 12 percent, while the U.S. all races rate has fallen only 4 percent.
The number of discharges for each of the five leading causes of IHS hospitalizations for females is shown in Figure 14, while the ratios between the IHS and U.S. all races rates for these causes are displayed in Figure 15.

The leading cause of hospitalization of females for both the IHS (14,567 discharges) and U.S. all races was obstetric deliveries and complications of pregnancy and the puerperium. The IHS discharge rate (214.9) was 33 percent lower than the U.S. all races rate (322.6).

Since FY 1992, the IHS discharge rate for obstetric deliveries and complications of pregnancy and the puerperium has declined 24 percent, accounting for virtually all of the drop in the overall female discharge rate.

The second leading cause for female patients in the IHS hospitals was respiratory system diseases (5,800 discharges). This category ranked third for females of all races. The IHS rate (113.1) was 10 percent below the U.S. all races rate (125.2).

Digestive system diseases was the third leading cause of hospitalization of females at IHS hospitals (5,694 discharges) and the fourth leading cause for the U.S. all races. The IHS rate (113.9) was 4 percent below the U.S. all races rate (119.1).

American Indian females were hospitalized for symptoms, signs, and ill-defined conditions much more than the females in the general population. The IHS rate (62.3) was five times the U.S. all races rate (12.0). Also, IHS female patients were hospitalized for skin and subcutaneous tissue diseases (IHS rate=29.3) at 1.8 times the U.S. all races rate (16.0).

On the other hand, females of all races were hospitalized two and one-half times more often than females in IHS hospitals for circulatory system diseases (U.S. all races rate = 222.2; IHS rate = 85.9) and nearly three times more often for mental disorders (69.4; 24.3).

**UTILIZATION BY PROCEDURES**

Health professionals in IHS and tribal direct and contract general hospitals performed 115,224 operations and non-surgical procedures in FY 1996 (Table H). The IHS rate was 1,170.1 procedures per 10,000 population. This was 24 percent less than the U.S. all races rate (1,530.2) and 4 percent less than the U.S. white rate (1,213.2).

Figure 16 shows the number of procedures for the five leading categories. Figure 17 displays the ratios of the IHS and U.S. all races rates for these categories, while Figure 18 graphically shows the ratios between the IHS and U.S. white rates.

The IHS procedure rate has increased 4.7 percent since FY 1994, while the U.S. all races rate declined 2.7 percent and the U.S. white rate decreased 3.1 percent since CY
1994. The FY 1994 IHS rate was 29 percent below the CY 1994 U.S. all races rate and 11 percent below the U.S. white rate.

Over one-half (51.8 percent, 59,701) of the IHS procedures in FY 1996 were for miscellaneous diagnostic and therapeutic procedures. This was the leading procedure category in IHS hospitals, as well as for the U.S. all races and the U.S. white populations. At IHS hospitals, there were 629.3 procedures performed per 10,000 people (age-adjusted). This rate was 32 percent higher than the U.S. all-races rate of 477.4 and 64 percent higher than the U.S. white rate of 384.5.

The IHS rate for all procedures other than "miscellaneous diagnostic and therapeutic procedures" was 540.8. This was only about one-half the U.S. all races rate (1052.8) and two-thirds the U.S. white rate (628.7). Many of these procedures are surgical procedures; thus, surgery was performed much less often on Indians than on the rest of the U.S. population.

The obstetrical procedures category was the second leading category at IHS hospitals and also for the U.S. all races and U.S. white populations. For IHS hospitals, the rate was 163.5. This was 34 percent lower than the U.S. all races rate of 247.7 and 6 percent lower than the U.S. white rate of 176.8. The third most often procedure performed in IHS hospitals, and for U.S. all races and U.S. whites, was for the digestive system. The IHS rate (110.0) was 42 percent below the U.S. all races rate (188.5) and 28 percent below the U.S. white rate (152.5).

Together the three leading procedure categories accounted for nearly four out of five (78.2 percent) of all the IHS procedures. However, these three categories represented only three out of five of the U.S. all races procedures (59.7 percent) and the U.S. white procedures (58.6 percent).

The U.S. general population had proportionately larger numbers—and much higher rates—for cardiovascular and musculoskeletal system procedures, among others, than did patients in IHS hospitals. Many of the IHS procedure category rates were less than one-half the rates for the U.S. all races. Among the ten leading categories of IHS procedures, only miscellaneous diagnostic and therapeutic procedures and nose, mouth, and pharynx procedures had higher IHS rates than the U.S. all races and white rates.

**PROCEDURES BY AGE GROUP**

Physicians and other health professionals in IHS hospitals performed 21,055 procedures on patients under 15 years old (Table I). This age group accounted for 18 percent of all of the IHS procedures. This percentage was more than three times higher than that for the U.S. all races, where this age group accounted for only 5 percent of the total procedures. The IHS rate of 522.1 procedures per 10,000 patients in this age group was 55 percent higher than the U.S. all races rate (337.9). This is
especially significant since the overall IHS rate was 24 percent lower than the overall U.S. all races rate.

By far, the leading category for this age group was miscellaneous diagnostic and therapeutic procedures (16,783, 79.7 percent of the total). The IHS rate of 416.2 was nearly three times the U.S. all races rate of 145.8.

Of note is the fact that the IHS rate for under 15 year olds for the remaining procedures was 105.9. The comparable U.S. all races rate was 192.2. Thus, for procedures other than "miscellaneous," the IHS rate was 45 percent below the U.S. all races rate.

The next two leading IHS categories for patients under 15 years old were male genital organ (812, 3.9 percent) and nervous system (742, 3.5) procedures. Their rates (20.1 and 18.4) were quite different from the U.S. all races rates (5.1 and 34.5). The IHS rate for male genital organ procedures was four times the U.S. all races rate, while the IHS nervous system rate was only one-half the U.S. all races rate. For the U.S. all races, digestive system (37.8) and nervous system procedures were the second and third leading categories.

Patients 15-44 years old had 53,723 procedures performed at IHS hospitals in FY 1994 (Table J). This age group accounted for nearly one-half (47 percent) of the total IHS procedures. However, in the U.S. all races population, this age group accounted for only about one-third (36 percent) of the total procedures. (In both populations, this age group represented nearly one-half of the population.) The IHS procedure rate for this age group was 957.9; this was 22 percent less than the U.S. all races rate of 1,229.9.

The leading procedure categories in IHS hospitals for 15-44 year old patients were obstetrical (20,315, 37.8 percent of the total) and miscellaneous diagnostic and therapeutic (17,807, 33.1). The IHS rates were 362.2 and 317.5, respectively. These two categories were also the leading categories for the U.S. all races; those rates were 549.0 and 226.3, respectively. Thus, the IHS obstetrical procedure rate for 15-44 year olds was 34 percent lower and the IHS "miscellaneous" rate was 40 higher than the comparable U.S. all races rates.

At IHS hospitals, there were 23,083 procedures performed on patients 45-64 years old (Table K). This was a rate of 1,452.3 procedures per 10,000 population in that age group. The U.S. all races rate was 1,732.4. Thus, the IHS rate was 16 percent less than the U.S. all races rate.

Nearly three-fifths (57 percent) of the procedures performed on patients between 45 and 64 years old at IHS hospitals were miscellaneous diagnostic and therapeutic procedures (13,133). The IHS rate for this category, 826.3, was 36 percent higher than the comparable U.S. all races rate (607.8).

Excluding the "miscellaneous" procedures, the IHS rate for 45-64 year olds was 626.0. This was 44 percent less than the U.S. all races rate of 1,124.6.
The next two most frequent categories for 45-64 year old patients were digestive system (2,867, 12.4 percent), and cardiovascular system (2,035, 8.8). Their rates, 180.4 and 128.0, were considerably below the U.S. all races rates of 232.3 and 350.6. In fact, the IHS cardiovascular procedure rate was only about one-third of the U.S. all races rate.

Of the 17,363 IHS procedures performed on patients 65 years old and older, over two-thirds (11,978, 69 percent) were miscellaneous diagnostic and therapeutic procedures (Table L). For the U.S. all races, this category represented only 40 percent.

Patients in this age group accounted for 15 percent of the IHS total number of procedures. This compared to 36 percent of the total for the U.S. all races. For the U.S. all races, the number of procedures for this age group was virtually the same as the number for the 15-44 year old age group. However, at IHS hospitals this age group accounted for only one-third (32 percent) as many procedures as the 15-44 year olds.

The IHS procedure rate for patients 65 years and older was 2,571.0. This was 40 percent less than the U.S. all races rate (4,294.6). Excluding the "miscellaneous" procedures, the IHS rate of 797.4 was only one-third (31 percent) of the U.S. all races rate of 2,577.8.

The second and third largest IHS categories for this age group were digestive system (1,612, 9.3 percent of the total) and cardiovascular system (1,258, 7.2). The IHS rates for these two categories were 238.7 and 186.3, respectively. These were much lower than the U.S. all races rates. The IHS digestive system rate was only 35 percent as much as the U.S. races rate of 680.6. There was even more of a disparity between the IHS and U.S. all races cardiovascular system rates; the IHS rate (186.3) was less than one-quarter (22 percent) as much as the U.S. all races rate (842.6). In fact, the U.S. all races cardiovascular system rate was more than the total IHS rate for this age group for all causes combined excluding miscellaneous diagnostic and therapeutic procedures.

CONCLUSIONS

The patients seen at the IHS and contract general hospitals are on the average younger, but suffer generally from the same categories of illnesses as do patients of all races seen at U.S. non-Federal short-stay hospitals.

Overall, the IHS hospitals had an age-adjusted discharge rate in FY 1996 that was 28 percent below the CY 1996 U.S. all races rate, primarily because of a much lower rate for patients 65 years and over. The IHS discharge rate was only 7 percent lower than the U.S. white rate. However, the difference in IHS and U.S. rates has widened slightly. In 1992 and again in 1994, the IHS rate was 25 percent below the U.S. all races rate and 4 percent below the U.S. white rate.
While IHS discharge rates were lower than the U.S. rates for most diseases, the IHS rates for symptoms, signs, and ill-defined conditions and diseases of the skin and subcutaneous tissue were considerably higher than the U.S. all races rates. Overall, the IHS rate for symptoms, signs, and ill-defined conditions was five times the U.S. all races rate. In each of the age groups, it ranged from nearly three times to over nine times the U.S. rate. The IHS rate for diseases of the skin and subcutaneous tissue was nearly twice the U.S. all races rate, and ranged from 38 percent to 175 higher in each age group.

For persons under 15 years old, the IHS discharge rate of 326.0 was 15 percent below the U.S. all races rate of 382.4. The category of respiratory system diseases was by far the largest cause of hospitalization, accounting for over 40 percent of the discharges for both IHS and the U.S. all races.

The 15-44 year old age group accounted for nearly half (47 percent) of the discharges from IHS hospitals, while only about one-third (34 percent) of the U.S. all races patient discharges were in this age group. This age group represented a similar percentage of the two populations (IHS, 47 percent; U.S. all races, 45 percent). The IHS rate of 682.2 was 22 percent below the U.S. all races rate of 869.6. Obstetric deliveries and complications of pregnancy and the puerperium accounted for about 40 percent of the discharges for both the IHS and U.S. all races.

The IHS discharge rate for 45-64 year old patients (1,080.2) was only 8 percent below the U.S. all races rate (1,172.2). However, the rates for some diagnostic categories varied considerably. Although circulatory system diseases was the leading category for both IHS and the U.S. all races, the U.S. all races rate was nearly double the IHS rate. The U.S. all races rates for neoplasms and diseases of the musculoskeletal system and connective tissue were also about twice the IHS rates. On the other hand, the IHS rate for symptoms, signs, and ill-defined conditions was more than seven times the U.S. all races rate, and the IHS rate for diseases of the skin and subcutaneous tissue was nearly three times the U.S. all races rate.

The IHS and U.S. all races results for the 65 years and older age group were quite different from each other. This age group accounted for 38 percent of the U.S. all races discharges, making it the largest age group in terms of the number of discharges. However, this age group accounted for only 16 percent of the IHS discharges; this was the smallest number among the four age groups. For this age group, the IHS discharge rate was 46 percent lower than the U.S. all races rate; the difference was less than 25 percent in the other age groups. Although circulatory system diseases was the leading category for both the IHS and U.S. all races, the IHS rate was only about one-third the U.S. all races rate. The neoplasms and injury and poisoning categories also had IHS rates that were less than one-half the U.S. all races rates. On the other hand, the IHS rate for symptoms, signs, and ill-defined conditions was over nine times the U.S. all races rate.
The IHS age-adjusted discharge rate (770.7 per 10,000 population) for males was 21 percent lower than the U.S. all races male discharge rate (976.9). The leading causes of IHS hospitalizations, accounting for just over one-half of the total, were respiratory system diseases, injury and poisoning, digestive system diseases, and circulatory system diseases. They were also the four leading causes for the U.S. all races, but in a different order.

For females, the IHS discharge rate (989.4) was 29 percent below the U.S. all races rate (1,393.7). Obstetric deliveries and complications of pregnancy and the puerperium was by far the leading cause of hospitalization, accounting for 30 percent of the IHS and 23 percent of U.S. all races discharges for females.

A comparison of operations and non-surgical procedures for IHS hospitals and the U.S. general population shows the IHS rate was 24 percent less than the U.S. all races rate and 4 percent less than the U.S. white rate. The differences between the IHS rate and the U.S. rates narrowed somewhat from 1994. In 1994, the IHS rate was 29 percent less than the U.S. all races rate and 11 percent less than the U.S. white rate. (As noted above, the differences between the IHS and U.S. discharge rates widened somewhat.)

Miscellaneous diagnostic and therapeutic procedures was by far the leading category. It accounted for 52 percent of the IHS, 31 percent of the U.S. all races, and 32 percent of the U.S. white race procedures. The IHS rate for this category was 32 percent higher than the U.S. all races rate and 64 higher than the U.S. white rate.

The IHS rates were lower for all other leading categories, except for the category of nose, mouth, and pharynx procedures; the IHS rate was 7 percent higher than the U.S. all races rate and 35 percent higher than the U.S. white rate. The U.S. all races rates were more than twice the IHS rates for musculoskeletal system, cardiovascular system, nervous system, and urinary system procedures.
Figure 12.
Number of Discharges by Leading Causes, FY 1996
IHS and Tribal Direct and Contract General Hospitals
Male Patients All Ages

<table>
<thead>
<tr>
<th>Category</th>
<th>Number of Discharges (Thousands)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory System Diseases</td>
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</tr>
<tr>
<td>Injury &amp; Poisoning</td>
<td></td>
</tr>
<tr>
<td>Digestive System Diseases</td>
<td></td>
</tr>
<tr>
<td>Circulatory System Diseases</td>
<td></td>
</tr>
<tr>
<td>Symptoms, Signs, &amp; Ill-Defined Conditions</td>
<td></td>
</tr>
</tbody>
</table>

Figure 13.
Ratio of Age-Adjusted IHS to U.S. All Races
Discharge Rates for Leading Causes, FY 1996
Male Patients All Ages

<table>
<thead>
<tr>
<th>Category</th>
<th>Ratio to U.S. Rates</th>
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<tbody>
<tr>
<td>Respiratory System Diseases</td>
<td>0.90</td>
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<tr>
<td>Injury &amp; Poisoning</td>
<td>0.93</td>
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<tr>
<td>Digestive System Diseases</td>
<td>0.98</td>
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<td>Circulatory System Diseases</td>
<td>0.43</td>
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<tr>
<td>Symptoms, Signs, &amp; Ill-Defined Conditions</td>
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</table>

Figure 14.
Number of Discharges by Leading Causes, FY 1996
IHS and Tribal Direct and Contract General Hospitals
Female Patients All Ages

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<thead>
<tr>
<th>Category</th>
<th>Number of Discharges (Thousands)</th>
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<tbody>
<tr>
<td>Obstetric Deliveries &amp; Complications of Pregnancy &amp; the Puerperium</td>
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</tr>
<tr>
<td>Respiratory System Diseases</td>
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</tr>
<tr>
<td>Digestive System Diseases</td>
<td></td>
</tr>
<tr>
<td>Genitourinary System Diseases</td>
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</tr>
<tr>
<td>Injury &amp; Poisoning</td>
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</tbody>
</table>

Figure 15.
Ratio of Age-Adjusted IHS to U.S. All Races
Discharge Rates for Leading Causes, FY 1996
Female Patients All Ages

<table>
<thead>
<tr>
<th>Category</th>
<th>Ratio to U.S. Rates</th>
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<tr>
<td>Obstetric Deliveries &amp; Complications of Pregnancy &amp; the Puerperium</td>
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<td>Digestive System Diseases</td>
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<td>Genitourinary System Diseases</td>
<td>0.88</td>
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<tr>
<td>Injury &amp; Poisoning</td>
<td>0.64</td>
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</table>
Figure 16.
Number of Procedures by Leading Types, FY 1996
IHS and Tribal Direct and Contract General Hospitals
Patients All Ages

Figure 17.
Ratio of IHS to U.S. All Races Rates
for Leading Types of Procedures, FY 1996
Patients All Ages

Figure 18.
Ratio of IHS to U.S. White Rates
for Leading Types of Procedures, FY 1996
Patients All Ages
<table>
<thead>
<tr>
<th>Diagnostic Category and ICD-9-CM Code</th>
<th>IHS Number of Discharges</th>
<th>IHS Rate (Age-Adjusted)</th>
<th>U.S. Rate: All Races</th>
<th>U.S. Rate: White</th>
<th>IHS to U.S. Rate: All Races</th>
<th>IHS to U.S. Rate: White</th>
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<tbody>
<tr>
<td>All Categories</td>
<td>81,161</td>
<td>836.8</td>
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<td>Obstetric Deliveries &amp; Complications of Pregnancy &amp; the Puerperium (630-676)</td>
<td>14,570</td>
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<td>165.4</td>
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<tr>
<td>Respiratory System Diseases (460-519)</td>
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<td>Digestive System Diseases (520-579)</td>
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<td>Injury &amp; Poisoning (800-899)</td>
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<td>Endocrine, Nutritional &amp; Metabolic Diseases &amp; Immunity Disorders (240-279)</td>
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<td>Mental Disorders (290-319)</td>
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<td>73.6</td>
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<td>Diseases of the Skin &amp; Subcutaneous Tissue (680-709)</td>
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<td>Ratio: IHS to U.S. All Races</td>
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<td>32.0</td>
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<td>Conditions (780-799)</td>
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<td>Infectious &amp; Parasitic Diseases (001-139)</td>
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<td>Certain Conditions Originating in the Perinatal Period (760-779)</td>
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<td>16.3</td>
<td>26.4</td>
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<td>Diseases of the Nervous System &amp; Sense Organs (320-389)</td>
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<td>Diseases of the Skin &amp; Subcutaneous Tissue (680-709)</td>
<td>443</td>
<td>11.0</td>
<td>7.7</td>
<td>1.43</td>
<td></td>
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</tr>
<tr>
<td>Endocrine, Nutritional &amp; Metabolic Diseases &amp; Immunity Disorders (240-279)</td>
<td>419</td>
<td>10.4</td>
<td>26.9</td>
<td>0.39</td>
<td></td>
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</tr>
<tr>
<td>All Other</td>
<td>963</td>
<td>23.9</td>
<td>71.2</td>
<td>0.34</td>
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</table>
TABLE C.
Ten Leading Causes of Hospitalization for Patients 15-44 Years Old
IHS and Tribal Direct and Contract General Hospitals, FY 1996
U.S. Non-Federal Short-Stay Hospitals, CY 1996

*IHS and Tribal Direct and Contract Hospitals Compared with U.S. Hospitals (Excludes Newborns)*

<table>
<thead>
<tr>
<th>Diagnostic Category and ICD-9-CM Code</th>
<th>IHS Number of Discharges</th>
<th>Rate per 10,000 Population</th>
<th>Ratio: IHS to U.S. All Races</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Categories</td>
<td>38,258</td>
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<td>869.6</td>
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<tr>
<td>Obstetric Deliveries &amp; Complications of Pregnancy &amp; the Puerperium (630-676)</td>
<td>14,509</td>
<td>258.7</td>
<td>366.4</td>
</tr>
<tr>
<td>Digestive System Diseases (520-579)</td>
<td>4,778</td>
<td>85.2</td>
<td>62.8</td>
</tr>
<tr>
<td>Injury &amp; Poisoning (800-899)</td>
<td>4,337</td>
<td>77.3</td>
<td>72.8</td>
</tr>
<tr>
<td>Mental Disorders (290-319)</td>
<td>2,519</td>
<td>44.9</td>
<td>96.5</td>
</tr>
<tr>
<td>Genitourinary System Diseases (580-629)</td>
<td>2,201</td>
<td>39.2</td>
<td>49.7</td>
</tr>
<tr>
<td>Respiratory System Diseases (460-519)</td>
<td>1,835</td>
<td>32.7</td>
<td>37.9</td>
</tr>
<tr>
<td>Symptoms, Signs, &amp; Ill-Defined Conditions (780-799)</td>
<td>1,546</td>
<td>27.6</td>
<td>9.6</td>
</tr>
<tr>
<td>Diseases of the Skin &amp; Subcutaneous Tissue (680-709)</td>
<td>1,288</td>
<td>23.0</td>
<td>10.6</td>
</tr>
<tr>
<td>Endocrine, Nutritional &amp; Metabolic Diseases &amp; Immunity Disorders (240-279)</td>
<td>1,068</td>
<td>19.0</td>
<td>21.0</td>
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<td>Circulatory System Diseases (390-459)</td>
<td>866</td>
<td>15.4</td>
<td>34.8</td>
</tr>
<tr>
<td>All Other</td>
<td>3,311</td>
<td>59.0</td>
<td>107.5</td>
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</table>
TABLE D.
Ten Leading Causes of Hospitalization for Patients 45-64 Years Old
IHS and Tribal Direct and Contract General Hospitals, FY 1996
U.S. Non-Federal Short-Stay Hospitals, CY 1996

IHS and Tribal Direct and Contract Hospitals Compared with U.S. Hospitals
(Excludes Newborns)

<table>
<thead>
<tr>
<th>Diagnostic Category and ICD-9-CM Code</th>
<th>Rate per 10,000 Population</th>
<th>Ratio: IHS to U.S.</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Categories</td>
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<td>U.S. All Races</td>
</tr>
<tr>
<td>All Categories</td>
<td>17,169</td>
<td>1,080.2</td>
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<td>Circulatory System Diseases (390-459)</td>
<td>2,718</td>
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<tr>
<td>Digestive System Diseases (520-579)</td>
<td>2,693</td>
<td>169.4</td>
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<tr>
<td>Respiratory System Diseases (460-519)</td>
<td>1,779</td>
<td>111.9</td>
</tr>
<tr>
<td>Symptoms, Signs, &amp; Ill-Defined Conditions (780-799)</td>
<td>1,679</td>
<td>105.6</td>
</tr>
<tr>
<td>Injury &amp; Poisoning (800-899)</td>
<td>1,347</td>
<td>84.7</td>
</tr>
<tr>
<td>Endocrine, Nutritional &amp; Metabolic Diseases &amp; Immunity Disorders (240-279)</td>
<td>1,292</td>
<td>81.3</td>
</tr>
<tr>
<td>Genitourinary System Diseases (580-629)</td>
<td>1,291</td>
<td>81.2</td>
</tr>
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<td>Diseases of the Skin &amp; Subcutaneous Tissue (680-709)</td>
<td>974</td>
<td>61.3</td>
</tr>
<tr>
<td>Neoplasms (140-239)</td>
<td>850</td>
<td>53.5</td>
</tr>
<tr>
<td>Diseases of the Musculoskeletal System &amp; Connective Tissue (710-739)</td>
<td>712</td>
<td>44.8</td>
</tr>
<tr>
<td>All Other</td>
<td>1,834</td>
<td>115.4</td>
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</table>
TABLE E.
Ten Leading Causes of Hospitalization for Patients 65 Years and Older
IHS and Tribal Direct and Contract General Hospitals, FY 1996
U.S. Non-Federal Short-Stay Hospitals, CY 1996

*IHS and Tribal Direct and Contract Hospitals Compared with U.S. Hospitals
(Excludes Newborns)*

<table>
<thead>
<tr>
<th>Diagnostic Category and ICD-9-CM Code</th>
<th>IHS Number of</th>
<th>IHS Rate per 10,000 Population</th>
<th>U.S. All Races</th>
<th>Ratio: IHS to U.S. All Races</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Categories</td>
<td>12,586</td>
<td>1,863.7</td>
<td>3,460.7</td>
<td>0.54</td>
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<tr>
<td>Circulatory System Diseases (390-459)</td>
<td>2,713</td>
<td>401.7</td>
<td>1,170.4</td>
<td>0.34</td>
</tr>
<tr>
<td>Respiratory System Diseases (460-519)</td>
<td>2,264</td>
<td>335.2</td>
<td>457.8</td>
<td>0.73</td>
</tr>
<tr>
<td>Digestive System Diseases (520-579)</td>
<td>1,418</td>
<td>210.0</td>
<td>353.7</td>
<td>0.59</td>
</tr>
<tr>
<td>Symptoms, Signs, &amp; Ill-Defined</td>
<td>1,121</td>
<td>166.0</td>
<td>18.0</td>
<td>9.22</td>
</tr>
<tr>
<td>Conditions (780-799)</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Endocrine, Nutritional &amp; Metabolic</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diseases &amp; Immunity Disorders (240-279)</td>
<td>918</td>
<td>135.9</td>
<td>166.3</td>
<td>0.82</td>
</tr>
<tr>
<td>Genitourinary System Diseases (580-629)</td>
<td>871</td>
<td>129.0</td>
<td>177.3</td>
<td>0.73</td>
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<tr>
<td>Injury &amp; Poisoning (800-899)</td>
<td>852</td>
<td>126.2</td>
<td>288.7</td>
<td>0.44</td>
</tr>
<tr>
<td>Neoplasms (140-239)</td>
<td>599</td>
<td>88.7</td>
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<td>Diseases of the Skin &amp; Subcutaneous</td>
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<tr>
<td>Tissue (680-709)</td>
<td>446</td>
<td>66.0</td>
<td>47.8</td>
<td>1.38</td>
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<tr>
<td>Diseases of the Musculoskeletal System</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&amp; Connective Tissue (710-739)</td>
<td>363</td>
<td>53.8</td>
<td>197.4</td>
<td>0.27</td>
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<td>All Other</td>
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<td>151.2</td>
<td>339.3</td>
<td>0.45</td>
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</table>
### TABLE F.

Ten Leading Causes of Hospitalization for Males, All Ages

IHS and Tribal Direct and Contract General Hospitals, FY 1996

U.S. Non-Federal Short-Stay Hospitals, CY 1996

IHS and Tribal Direct and Contract Hospitals Compared with U.S. Hospitals

(Excludes Newborns)

<table>
<thead>
<tr>
<th>Diagnostic Category and ICD-9-CM Code</th>
<th>Rate per 10,000 Population</th>
<th>IHS Number of Discharges</th>
<th>IHS (Age-Adjusted)</th>
<th>U.S. All Races</th>
<th>Ratio: IHS to U.S. All Races</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Categories</td>
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<td>32,329</td>
<td>716.5</td>
<td>941.0</td>
<td>0.76</td>
</tr>
<tr>
<td>Respiratory System Diseases (460-519)</td>
<td></td>
<td>5,648</td>
<td>107.7</td>
<td>120.0</td>
<td>0.90</td>
</tr>
<tr>
<td>Injury &amp; Poisoning (800-899)</td>
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<td>4,663</td>
<td>92.0</td>
<td>99.2</td>
<td>0.93</td>
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<tr>
<td>Digestive System Diseases (520-579)</td>
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<td>4,487</td>
<td>98.7</td>
<td>100.6</td>
<td>0.98</td>
</tr>
<tr>
<td>Circulatory System Diseases (390-459)</td>
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<td>3,438</td>
<td>102.7</td>
<td>241.0</td>
<td>0.43</td>
</tr>
<tr>
<td>Symptoms, Signs, &amp; Ill-Defined</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conditions (780-799)</td>
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<td>2,530</td>
<td>58.7</td>
<td>10.9</td>
<td>5.39</td>
</tr>
<tr>
<td>Mental Disorders (290-319)</td>
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<td>45.0</td>
<td>78.0</td>
<td>0.58</td>
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<tr>
<td>Diseases of the Skin &amp; Subcutaneous</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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<td>Tissue (680-709)</td>
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<td>1,772</td>
<td>38.8</td>
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<td>Endocrine, Nutritional &amp; Metabolic</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Diseases &amp; Immunity Disorders (240-279)</td>
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<td>1,729</td>
<td>41.8</td>
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<td>1.03</td>
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<tr>
<td>Genitourinary System Diseases (580-629)</td>
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<td>1,113</td>
<td>28.9</td>
<td>40.9</td>
<td>0.71</td>
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<tr>
<td>Musculoskeletal System &amp; Connective</td>
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<td>989</td>
<td>23.2</td>
<td>49.6</td>
<td>0.47</td>
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<td>Tissue Diseases (710-739)</td>
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<tr>
<td>All Other</td>
<td></td>
<td>3,766</td>
<td>79.0</td>
<td>142.1</td>
<td>0.56</td>
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TABLE G.
Ten Leading Causes of Hospitalization for Females, All Ages
IHS and Tribal Direct and Contract General Hospitals, FY 1996
U.S. Non-Federal Short-Stay Hospitals, CY 1996

IHS and Tribal Direct and Contract Hospitals Compared with U.S. Hospitals
(Excludes Newborns)

<table>
<thead>
<tr>
<th>Diagnostic Category and ICD-9-CM Code</th>
<th>Rate per 10,000 Population</th>
<th>Rate per 10,000 Population</th>
<th>Ratio: IHS to U.S. All Races</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>IHS Number of Discharges</td>
<td>IHS Age-Adjusted</td>
<td>U.S. All Races</td>
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<tr>
<td>All Categories</td>
<td>48,429</td>
<td>924.7</td>
<td>1,362.7</td>
</tr>
<tr>
<td>Obstetric Deliveries &amp; Complications</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>of Pregnancy &amp; the Puerperium (630-676)</td>
<td>14,567</td>
<td>214.9</td>
<td>322.6</td>
</tr>
<tr>
<td>Respiratory System Diseases (460-519)</td>
<td>5,800</td>
<td>113.1</td>
<td>125.2</td>
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<td>Digestive System Diseases (520-579)</td>
<td>5,694</td>
<td>113.9</td>
<td>119.1</td>
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<td>3,722</td>
<td>74.2</td>
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<td>Injury &amp; Poisoning (800-899)</td>
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<td>94.1</td>
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<td>Circulatory System Diseases (390-459)</td>
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<td>85.9</td>
<td>222.2</td>
</tr>
<tr>
<td>Symptoms, Signs, &amp; Ill-Defined</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Conditions (780-799)</td>
<td>2,801</td>
<td>62.3</td>
<td>12.0</td>
</tr>
<tr>
<td>Endocrine, Nutritional &amp; Metabolic</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Diseases &amp; Immunity Disorders (240-279)</td>
<td>1,968</td>
<td>47.8</td>
<td>55.7</td>
</tr>
<tr>
<td>Diseases of the Skin &amp; Subcutaneous</td>
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<td></td>
</tr>
<tr>
<td>Tissues (680-709)</td>
<td>1,379</td>
<td>29.3</td>
<td>16.0</td>
</tr>
<tr>
<td>Mental Disorders (290-319)</td>
<td>1,353</td>
<td>24.3</td>
<td>69.4</td>
</tr>
<tr>
<td>All Other</td>
<td>5,141</td>
<td>98.8</td>
<td>241.7</td>
</tr>
<tr>
<td>Procedure Category and ICD-9-CM Code</td>
<td>IHS Number of Procedures</td>
<td>IHS Rate (Age-Adjusted)</td>
<td>U.S. All Races</td>
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<tr>
<td>-------------------------------------</td>
<td>--------------------------</td>
<td>------------------------</td>
<td>---------------</td>
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<tr>
<td>All Procedures</td>
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<td>Misc. Diagnostic &amp; Therapeutic</td>
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<td>Musculoskeletal System (76-84)</td>
<td>4,789</td>
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<td>Cardiovascular System (35-39)</td>
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<td>Female Genital Organs (65-71)</td>
<td>4,195</td>
<td>40.1</td>
<td>79.4</td>
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<td>Integumentary System (85-86)</td>
<td>3,574</td>
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<td>Nervous System (01-05)</td>
<td>1,599</td>
<td>13.7</td>
<td>35.5</td>
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<td>Nose, Mouth, Pharynx (21-29)</td>
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<td>Urinary System (55-59)</td>
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<td>16.7</td>
<td>38.5</td>
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<td>All Other</td>
<td>3,620</td>
<td>37.4</td>
<td>77.2</td>
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<td>Procedure Category and ICD-9-CM Code</td>
<td>IHS Number of Procedures</td>
<td>Rate per 10,000 Population IHS</td>
<td>Ratio: IHS to U.S. All Races</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>--------------------------</td>
<td>--------------------------------</td>
<td>----------------------------</td>
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<td>All Procedures</td>
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<td>337.9</td>
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<td>18.4</td>
<td>34.5</td>
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<td>37.8</td>
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<tr>
<td>Nose, Mouth, Pharynx (21-29)</td>
<td>574</td>
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<td>12.0</td>
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<td>Musculoskeletal System (76-84)</td>
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<td>28.6</td>
</tr>
<tr>
<td>Integumentary System (85-86)</td>
<td>290</td>
<td>7.2</td>
<td>13.6</td>
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<tr>
<td>All Other</td>
<td>804</td>
<td>20.0</td>
<td>60.5</td>
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### TABLE J.
Number and Rate of Leading Types of Procedures for Patients 15-44 Years Old
IHS and Tribal Direct and Contract General Hospitals, FY 1996
U.S. Non-Federal Short-Stay Hospitals, CY 1996

<table>
<thead>
<tr>
<th>Procedure Category and ICD-9-CM Code</th>
<th>IHS Number of Procedures</th>
<th>Rate per 10,000 Population</th>
<th>Ratio: IHS to U.S. All Races</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Procedures</td>
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<td>957.9</td>
<td>1,229.9</td>
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<td>362.2</td>
<td>549.0</td>
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<td>Misc. Diagnostic &amp; Therapeutic</td>
<td>17,807</td>
<td>317.5</td>
<td>226.3</td>
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<td>Procedures (87-99)</td>
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</tr>
<tr>
<td>Digestive System (42-54)</td>
<td>4,907</td>
<td>87.5</td>
<td>101.6</td>
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<tr>
<td>Female Genital Organs (65-71)</td>
<td>3,062</td>
<td>54.6</td>
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<td>Musculoskeletal System (76-84)</td>
<td>2,454</td>
<td>43.8</td>
<td>80.9</td>
</tr>
<tr>
<td>Integumentary System (85-86)</td>
<td>1,778</td>
<td>31.7</td>
<td>33.8</td>
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<td>Cardiovascular System (35-39)</td>
<td>887</td>
<td>15.8</td>
<td>45.8</td>
</tr>
<tr>
<td>All Other</td>
<td>2,513</td>
<td>44.8</td>
<td>85.3</td>
</tr>
<tr>
<td>Procedure Category and ICD-9-CM Code</td>
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<td>Rate per 10,000 Population</td>
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Detailed Tables

1. Population and Discharges, Number and Percent Distribution
   IHS and Tribal Direct and Contract General Hospitals, FY 1996
   U.S. Non-Federal Short-Stay Hospitals, CY 1996 .......................... 38

2. Number of Discharges, Hospital Days, and Average Length of Stay,
   By Age and Sex, IHS and Tribal Direct and Contract General
   Hospitals, FY 1996 .......................................................... 39

3. Number of Discharges, Hospital Days, and Average Length of Stay,
   By Principal Diagnosis: IHS and Tribal Direct and Contract General
   Hospitals, FY 1996 .......................................................... 40

4. Number of Discharges by Principal Diagnosis and Age Group:
   IHS and Tribal Direct and Contract General Hospitals, FY 1996 .......... 42

5. Number of Pediatric Discharges by Principal Diagnosis,
   Age Group and Sex: IHS and Tribal Direct and Contract
   General Hospitals, FY 1996 ................................................ 44

6. Number of Adult Discharges by Principal Diagnosis,
   Age Group and Sex: IHS and Tribal Direct and Contract
   General Hospitals, FY 1996 ................................................ 46

7. Number and Percent of All-Listed Procedures by Type
   and Hospital Ownership, IHS and Tribal Direct and Contract
   General Hospitals, FY 1996 ................................................. 48

8. Number of All-Listed Procedures by Type and Age
   IHS and Tribal Direct and Contract General Hospitals, FY 1996 .......... 49

9. Number of Discharges, Hospital Days and Average Length
   of Stay (ALOS) by Area, IHS and Tribal Direct and Contract
   General Hospitals, FY 1996 ................................................. 51

10. Number of Discharges, Hospital Days and Average Length
    of Stay by Area and Principal Diagnosis: IHS and Tribal Direct
    and Contract General Hospitals, FY 1996 .............................. 52
TABLE 1.
Population and Discharges, Number and Percent Distribution
IHS and Tribal Direct and Contract General Hospitals, FY 1996
U.S. Non-Federal Short-Stay Hospitals, CY 1996

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Note: IHS data excludes the California Area, the Eastern Michigan Service Unit and unassigned counties in the Bemidji Area, the Catawba, Jena Band of Choctaw, and Mohegan Service Units in the Nashville Area, the Warm Springs Service Unit in the Portland Area.
| TABLE 2 . NUMBER OF DISCHARGES, HOSPITAL DAYS, AND AVERAGE LENGTH OF STAY, BY AGE AND SEX |
| INDIAN HEALTH SERVICE AND TRIBAL DIRECT AND CONTRACT GENERAL HOSPITALS, FISCAL YEAR 1996 |

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TABLE 5. NUMBER OF PEDIATRIC DISCHARGES BY PRINCIPAL DIAGNOSIS, AGE GROUP AND SEX  
INDIAN HEALTH SERVICE AND TRIBAL DIRECT AND CONTRACT GENERAL HOSPITALS, FISCAL YEAR 1996 (CONTINUED)

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### TABLE 6. NUMBER OF ADULT DISCHARGES BY PRINCIPAL DIAGNOSIS, AGE GROUP AND SEX

**INDIAN HEALTH SERVICE AND TRIBAL DIRECT AND CONTRACT GENERAL HOSPITALS, FISCAL YEAR 1996 (CONTINUED)**

| PRINCIPAL DIAGNOSIS                              | ICD-9-CM CODE | TOTAL | ADULT MALE | 15-24 YEARS MALE | 15-24 YEARS FEMALE | 25-34 YEARS MALE | 25-34 YEARS FEMALE | 35-44 YEARS MALE | 35-44 YEARS FEMALE | 45-54 YEARS MALE | 45-54 YEARS FEMALE | 55-64 YEARS MALE | 55-64 YEARS FEMALE | 65-64 YEARS MALE | 65-64 YEARS FEMALE | 65 AND OVER MALE | 65 AND OVER FEMALE |
|------------------------------------------------|---------------|-------|------------|------------------|--------------------|------------------|--------------------|------------------|--------------------|------------------|--------------------|------------------|--------------------|--------------------|------------------|--------------------|------------------|------------------|
| **COMPLICATIONS-PREGNANCY/CHILDBIRTH/PUERPERIUM** | 630-676       | 1     | 14515      | 7145             | 25931              | 11430            | 9                  | 0                | 0                  | 0                | 0                  | 0                | 0                  | 0                | 0                  | 0                | 0                |
| Spontaneous Abortion                            | 634           | 0     | 264        | 111              | 114                | 38               | 0                  | 0                | 0                  | 0                | 0                  | 0                | 0                  | 0                | 0                  | 0                | 0                |
| False Labor                                      | 644.10, 644.13| 0    | 161        | 90               | 61                | 10               | 0                  | 0                | 0                  | 0                | 0                  | 0                | 0                  | 0                | 0                  | 0                | 0                |
| Other Complications of pregnancy                | 650           | 1     | 2423       | 1155             | 942               | 325              | 1                  | 0                | 0                  | 0                | 0                  | 0                | 0                  | 0                | 0                  | 0                | 0                |
| Normal delivery                                  | 664.00-664.41 | 1    | 2743       | 1520             | 1002              | 220              | 1                  | 0                | 0                  | 0                | 0                  | 0                | 0                  | 0                | 0                  | 0                | 0                |
| Other Complications of delivery                 | 6581          | 1     | 3120       | 2808             | 119               | 144              | 86                 | 56               | 11                 | 2                | 9                  | 4                | 4                  | 5                | 4                  | 0                | 0                |
| **DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE**  | 680-709       | 1521  | 1187       | 179              | 86                | 301              | 162                | 239              | 221                | 298              | 252                | 199              | 225                | 205              | 241                | 0                | 0                |
| Cellulitis and Abscess                          | 682           | 1116  | 802        | 144              | .56               | 233              | 113                | 254              | 156                | 209              | 188                | 144              | 132                | 132              | 157                | 0                | 0                |
| **DISEASES-MUSCULOSKELETAL**                    | 710-739       | 902   | 959        | 101              | 53                | 121              | 130                | 218              | 165                | 162              | 209                | 140              | 201                | 160              | 203                | 0                | 0                |
| Congenital anomalies                             | 740-759       | 37    | 54         | 7                | 11                | 10               | 15                 | 9                | 11                 | 2                | 9                  | 4                | 4                  | 5                | 4                  | 0                | 0                |
| **CONDITIONS ORIGINATING IN PERINATAL PERIOD**   | 760-779       | 0     | 0          | 0                | 0                 | 0                | 0                  | 0                | 0                  | 0                | 0                  | 0                | 0                  | 0                | 0                  | 0                | 0                |
| Short gestation, low birthweight disorders       | 765           | 0     | 0          | 0                | 0                 | 0                | 0                  | 0                | 0                  | 0                | 0                  | 0                | 0                  | 0                | 0                  | 0                | 0                |
| **SYMPTOMS, SIGNS AND ILL-DEFINED CONDITIONS**   | 780-789       | 1995  | 2351       | 129              | 160               | 246              | 247                | 371              | 393                | 406              | 485                | 361              | 427                | 482              | 639                | 0                | 0                |
| Convulsions                                     | 780.3         | 290   | 156        | 27               | 22                | 74               | 76                 | 31               | 42                 | 24               | 32                 | 16               | 39                 | 33               | 0                  | 0                | 0                |
| Abdominal Pain                                   | 789.0         | 217   | 499        | 52               | 84                | 42               | 115                | 44               | 118                | 34               | 76                 | 22               | 47                 | 23               | 59                 | 0                | 0                |
| **INJURIES AND POISONINGS**                      | 800-899       | 3952  | 2584       | 994              | 471               | 1051             | 522                | 823              | 476                | 420              | 333                | 304              | 290                | 360              | 492                | 0                | 0                |
| Fractures, all sites                             | 800-828       | 1268  | 782        | 321              | 75                | 324              | 137                | 273              | 116                | 131              | 100                | 89               | 95                 | 128              | 259                | 0                | 0                |
| Dislocations, sprains                            | 830-846       | 144   | 98         | 43               | 27                | 39               | 18                 | 31               | 19                 | 14               | 12                 | 12               | 9                  | 5                | 13                 | 0                | 0                |
| Lacerations, open wounds                         | 870-887       | 599   | 162        | 192              | 47                | 194              | 42                 | 124              | 33                 | 51               | 17                 | 23               | 11                 | 15               | 12                 | 0                | 0                |
| Superficial injury, contusions                   | 910-929       | 234   | 158        | 45               | 36                | 73               | 35                 | 60               | 28                 | 25               | 23                 | 12               | 11                 | 19               | 25                 | 0                | 0                |
| Burns                                            | 940-949       | 117   | 40         | 20               | 3                | 31               | 7                 | 24               | 9                  | 18               | 6                  | 12               | 8                  | 12               | 8                  | 0                | 0                |
| Poisonings                                       | 960-979       | 249   | 481        | 75               | 172               | 72               | 113                | 56               | 92                 | 20               | 41                 | 10               | 24                 | 16               | 19                 | 0                | 0                |
| **SUPPLEMENTARY CLASSIFICATION**                 | V01-V82       | 515   | 679        | 70               | 120               | 156              | 202                | 99               | 146                | 75               | 87                 | 48               | 71                 | 69               | 73                 | 0                | 0                |
| Healthy infant child care                        | V20.1         | 0     | 0          | 0                | 0                 | 0                | 0                  | 0                | 0                  | 0                | 0                  | 0                | 0                  | 0                | 0                  | 0                | 0                |
| Prenatal, postpartum supervision                 | V22-V24       | 0     | 101        | 0                | 51                | 0                | 42                 | 0                | 8                  | 0                | 0                  | 0                | 0                  | 0                | 0                  | 0                | 0                |
| Sterilization                                    | V25.2         | 18    | 111        | 2                | 17                | 9                | 60                 | 7                | 33                 | 0                | 1                  | 0                | 0                  | 0                | 0                  | 0                | 0                |
| Aftercare                                        | V51, V54, V56-V58, V66 | 275  | 271        | 23               | 22                | 65               | 34                 | 38               | 49                 | 59               | 49                 | 40               | 82                 | 50               | 55                 | 0                | 0                |
Table 7.
Number and Percent of All-Listed Procedures by Type and Hospital Ownership
IHS and Tribal Direct and Contract General Hospitals, FY 1996

<table>
<thead>
<tr>
<th>Procedure Category and ICD-9-CM Code</th>
<th>Number of Procedures</th>
<th>Percent Distribution</th>
</tr>
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<tbody>
<tr>
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<td>Total</td>
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<tr>
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<td>115,224</td>
<td>96,465</td>
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<tr>
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<td>1,599</td>
<td>1,097</td>
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<tr>
<td>Endocrine System, 06-07</td>
<td>110</td>
<td>69</td>
</tr>
<tr>
<td>Eye, 08-16</td>
<td>566</td>
<td>411</td>
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<tr>
<td>Ear, 18-20</td>
<td>554</td>
<td>519</td>
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<tr>
<td>Nose, Mouth, Pharynx, 21-29</td>
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<td>1,380</td>
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<tr>
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<tr>
<td>Cardiovascular System, 35-39</td>
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<td>4,789</td>
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<td>Procedures, 87-99</td>
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<td>Procedure Category and ICD-9-CM Code</td>
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<td>Number of Procedures</td>
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## TABLE 9.
Number of Discharges, Hospital Days and Average Length of Stay (ALOS) by Area
IHS and Tribal Direct and Contract General Hospitals, FY 1996
U.S. Non-Federal Short Stay Hospitals, CY 1996

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<th>Hospital Days</th>
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<td>PERCENTAGE DISTRIBUTION</td>
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<td>CONTRACT</td>
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<td>36</td>
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<td>6</td>
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<td>424</td>
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<td>59</td>
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<td>290-299</td>
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<td>173</td>
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<td>206</td>
<td>173</td>
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<td>ASTHMA</td>
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<td>146</td>
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<td>597</td>
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<td>165</td>
<td>140</td>
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<td>GALL BLADDER DISEASE</td>
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<td>GENITOURINARY SYSTEM DISEASES</td>
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<td>URINARY SYSTEM DISEASES</td>
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<td>306</td>
<td>229</td>
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<td>FEMALE GENITAL TRACT DISEASES</td>
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<td>69</td>
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### Table 10. Number of Discharges, Hospital Days, and Average Length of Stay, by Principal Diagnosis

<table>
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<tr>
<th>Principal Diagnosis</th>
<th>ICD-9-CM Code</th>
<th>Number of Discharges</th>
<th>Percentage Distribution</th>
<th>Hospital Days</th>
<th>Average Stay</th>
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<td></td>
<td>Total</td>
<td>Direct Contract</td>
<td>Total</td>
<td>Direct Contract</td>
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<td>1082</td>
<td>801</td>
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<td>Spontaneous Abortion</td>
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<td>Other Complications of Delivery</td>
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<td>244</td>
<td>171</td>
<td>4.5</td>
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</table>

| Diseases of the Skin and Subcutaneous Tissue, 680-709   |               | 432   | 343          | 89    | 4.7           | 5.8   | 2.7           | 2238  | 1735           | 503   | 5.2          | 5.1  | 5.7 |
| Cellulitis and Abscess, Except Digit                     | 682           | 303   | 241          | 62    | 3.3           | 4.1   | 1.9           | 1459  | 1168           | 291   | 4.8          | 4.8  | 4.7 |

| Diseases-Musculoskeletal System and Connect Tissue       | 710-739       | 234   | 123          | 111   | 2.6           | 2.1   | 3.4           | 1230  | 886            | 544   | 5.3          | 5.6  | 4.9 |

| Congenital Anomalies                                     | 740-759       | 28    | 14           | 14    | 0.3           | 0.2   | 0.4           | 122   | 47             | 75    | 4.4          | 3.4  | 5.4 |

| Conditions Originating in Perinatal Period, 760-779      |               | 63    | 48           | 17    | 0.7           | 0.8   | 0.5           | 257   | 101            | 156   | 4.1          | 2.2  | 9.2 |
| Short Gestation, Low Birthweight Disorders, 765          |               | 2     | 0            | 0     | 0.0           | 0.0   | 0.1           | 49    | 0              | 49    | 24.5         | 0.0  | 24.5 |

| Symptoms, Signs and Ill-Defined Conditions, 780-799      |               | 592   | 493          | 199   | 7.6           | 8.3   | 6.1           | 1633  | 1100           | 533   | 2.4          | 2.2  | 2.7 |
| Convulsions                                             | 780.3         | 111   | 85           | 26    | 1.2           | 1.4   | 0.8           | 268   | 200            | 68    | 2.4          | 2.4  | 2.5 |
| Abdominal Pain                                           | 789.0         | 99    | 61           | 38    | 1.1           | 1.0   | 1.2           | 230   | 125            | 105   | 2.3          | 2.0  | 2.8 |

| Injuries and Poisonings                                  |               | 800-999 | 1035 | 461 | 574 | 11.3 | 7.8 | 17.7 | 4284 | 1287 | 2997 | 4.1 | 2.8 | 5.2 |
| Fractures, All Sites                                     | 800-828       | 284    | 72           | 212   | 3.1           | 1.2   | 6.5           | 1550  | 254            | 1296  | 5.5          | 3.5  | 6.1 |
| Dislocations, Sprains                                   | 830-848       | 37     | 13           | 24    | 0.4           | 0.2   | 0.7           | 111   | 42             | 69    | 3.0          | 3.2  | 2.9 |
| Lacerations, Open Wounds                                | 870-897       | 106    | 45           | 61    | 1.2           | 0.8   | 1.9           | 370   | 147            | 223   | 3.5          | 3.3  | 3.7 |
| Superficial Injury, Contusions                           | 910-929       | 86     | 77           | 9     | 0.9           | 1.3   | 0.3           | 174   | 160            | 14    | 2.0          | 2.1  | 1.6 |
| Burns                                                    | 940-949       | 32     | 24           | 8     | 0.3           | 0.4   | 0.2           | 190   | 131            | 59    | 5.9          | 5.5  | 7.4 |
| Poisonings                                               | 960-979       | 167    | 105          | 62    | 1.8           | 1.8   | 1.9           | 317   | 149            | 168   | 1.9          | 1.4  | 2.7 |

<p>| Supplementary Classification                             | V01-V82       | 124    | 92           | 32    | 1.4           | 1.6   | 1.0           | 720   | 449            | 271   | 5.8          | 4.9  | 8.5 |
| Healthy Infant Child Care                                | V20.1         | 1      | 1            | 0     | 0.0           | 0.0   | 0.0           | 3     | 3              | 0     | 3.0          | 3.0  | 0.0 |
| Prenatal, Postpartum Supervision                         | V22-V24       | 9      | 0            | 9     | 0.1           | 0.2   | 0.0           | 9     | 9              | 0     | 1.0          | 1.0  | 0.0 |
| Sterilization                                            | V25.2         | 28     | 26           | 0     | 0.3           | 0.4   | 0.0           | 28    | 28             | 0     | 1.1          | 1.1  | 0.0 |
| Aftercare                                                | V51, V54, V56-V58, V66 | 46     | 29           | 17    | 0.5           | 0.8   | 0.5           | 428   | 234            | 192   | 9.3          | 8.1  | 11.3 |</p>
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<th>AVERAGE STAY</th>
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<td>CONTRACT</td>
<td>TOTAL</td>
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### Table 10. Number of Discharges, Hospital Days, and Average Length of Stay, by Principal Diagnosis

**Indian Health Service and Tribal Direct and Contract General Hospitals, Fiscal Year 1998, for Alaska Area (Continued)**

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**Supplementary Classification**

- Healthy Infant Child Care
- Prenatal, Postpartum Supervision
- Sterilization
- Aftercare
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<th>ICD-9-CM CODE</th>
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<th>PERCENTAGE DISTRIBUTION</th>
<th>HOSPITAL DAYS</th>
<th>AVERAGE STAY</th>
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### Table 10. Number of Discharges, Hospital Days, and Average Length of Stay, by Principal Diagnosis

Indian Health Service and Tribal Direct and Contract General Hospitals, Fiscal Year 1996, For Benidji Area (Continued)

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| DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE             | 680-709           | 91                   | 69                      | 22            | 4.7 7.2 2.3             | 340 263    | 77 3.7 3.8 3.5 |
| CELLULITIS AND ABSCESS, EXCEPT DIGIT                     | 682               | 65                   | 50                      | 15            | 3.4 5.2 1.5             | 210 163    | 47 3.2 3.3 3.1 |

| DISEASES-MUSCULOSKELE SYS AND CONNECT TISSUE             | 710-739           | 42                   | 13                      | 29            | 2.2 1.4 3.0             | 194 84     | 110 4.6 6.5 3.8 |

| CONGENITAL ANOMALIES                                     | 740-759           | 3                    | 1                       | 2             | 0.2 0.1 0.2             | 8 2 6      | 2.7 2.0 3.0 |

| CONDITIONS ORIGINATING IN PERINATAL PERIOD               | 760-779           | 5                    | 2                       | 3             | 0.3 0.2 0.3             | 15 2 13    | 3.0 1.0 4.3 |
| SHORT GESTATION, LOW BIRTHWEIGHT DISORDERS              | 765               | 1                   | 0                       | 1             | 0.1 0.0 0.1             | 10 0 10    | 10.0 0.0 10.0 |

| SYMPTOMS, SIGNS AND ILL-DEFINED CONDITIONS               | 780-799           | 196                  | 122                     | 74            | 10.2 12.8 7.6           | 361 212    | 149 1.8 1.7 2.0 |
| CONVULSIONS                                             | 780.3             | 24                   | 22                      | 2             | 1.2 2.3 0.2             | 36 32      | 4 1.5 1.5 2.0 |
| ABDOMINAL PAIN                                           | 789.0             | 22                   | 7                       | 15            | 1.1 0.7 1.5             | 53 15 38   | 2.4 2.1 2.5 |

| INJURIES AND POISONINGS                                  | 800-999           | 164                  | 83                      | 81            | 8.5 8.7 8.3             | 511 212    | 299 3.1 2.6 3.7 |
| FRACTURES, ALL SITES                                     | 800-828           | 32                   | 5                       | 27            | 1.7 0.5 2.8             | 112 25 87  | 3.5 5.0 3.2 |
| DISLOCATIONS, SPRAINS                                    | 830-848           | 13                   | 8                       | 5             | 0.7 0.8 0.5             | 24 15 9    | 1.8 1.9 1.8 |
| LACERATIONS, OPEN WOUNDS                                 | 870-897           | 19                   | 9                       | 6             | 0.8 0.9 0.6             | 25 14 11   | 1.7 1.6 1.8 |
| SUPERFICIAL INJURY, CONTUSIONS                           | 910-929           | 11                   | 9                       | 2             | 0.6 0.9 0.2             | 19 16 3    | 1.7 1.8 1.5 |
| BURNS                                                    | 940-949           | 1                    | 1                       | 0             | 0.1 0.1 0.0             | 2 2 0      | 2.0 2.0 0.0 |
| POISONINGS                                               | 960-979           | 46                   | 33                      | 13            | 2.4 3.5 1.3             | 88 60 28   | 1.9 1.8 2.2 |

<p>| SUPPLEMENTARY CLASSIFICATION                             | V01-V82           | 7                    | 1                       | 6             | 0.4 0.1 0.6             | 127 1 126   | 18.1 1.0 21.0 |
| HEALTHY INFANT CHILD CARE                                | V20.1             | 0                    | 0                       | 0             | 0.0 0.0 0.0             | 0 0 0      | 0.0 0.0 0.0 |
| PRENATAL, POSTPARTUM SUPERVISION                         | V22-V24           | 1                    | 0                       | 1             | 0.1 0.0 0.1             | 2 0 2      | 2.0 0.0 2.0 |
| STERILIZATION                                           | V25.2             | 0                    | 0                       | 0             | 0.0 0.0 0.0             | 0 0 0      | 0.0 0.0 0.0 |
| AFTERCARE                                               | V51, V54, V56-V58, V66 | 5                  | 0                       | 5             | 0.3 0.0 0.5             | 124 0 124   | 24.8 0.0 24.8 |</p>
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### TABLE 10. NUMBER OF DISCHARGES, HOSPITAL DAYS, AND AVERAGE LENGTH OF STAY, BY PRINCIPAL DIAGNOSIS

**INDIAN HEALTH SERVICE AND TRIBAL DIRECT AND CONTRACT GENERAL HOSPITALS, FISCAL YEAR 1996, FOR NAVAJO AREA**

(Continued)

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<th>NUMBER OF DISCHARGES</th>
<th>PERCENTAGE DISTRIBUTION</th>
<th>HOSPITAL DAYS</th>
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**DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE** | 680-709 | 706 | 674 | 32 | 3.4 | 3.6 | 1.7 | 3735 | 3560 | 175 | 5.3 | 5.3 | 5.5 |

**CELLULITIS AND ABSCESSES, EXCEPT DIGIT** | 682 | 477 | 454 | 23 | 2.3 | 2.4 | 1.2 | 2465 | 2344 | 121 | 5.2 | 5.2 | 5.3 |

**DISEASES-MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE** | 710-739 | 448 | 377 | 71 | 2.2 | 2.0 | 3.8 | 2396 | 2043 | 353 | 5.3 | 5.2 | 5.3 |

**CONGENITAL ANOMALIES** | 740-759 | 76 | 65 | 11 | 0.4 | 0.3 | 0.6 | 250 | 196 | 54 | 3.3 | 3.0 | 5.0 |

**CONDITIONS ORIGINATING IN PERINATAL PERIOD** | 760-779 | 277 | 271 | 6 | 1.3 | 1.4 | 0.3 | 1135 | 1091 | 44 | 4.1 | 4.0 | 7.3 |

**SHORT GESTATION, LOW BIRTHWEIGHT DISORDERS** | 765 | 30 | 29 | 1 | 0.1 | 0.2 | 0.1 | 335 | 320 | 15 | 11.2 | 11.0 | 15.0 |

**SYMPTOMS, SIGNS AND ILL-DEFINED CONDITIONS** | 780-799 | 1339 | 1275 | 64 | 6.5 | 6.8 | 3.5 | 3638 | 3440 | 198 | 2.7 | 2.7 | 3.1 |

**CONVULSIONS** | 780.3 | 140 | 131 | 9 | 0.7 | 0.7 | 0.5 | 385 | 343 | 42 | 2.8 | 2.6 | 4.7 |

**ABDOMINAL PAIN** | 789.0 | 212 | 207 | 5 | 1.0 | 1.1 | 0.3 | 436 | 425 | 11 | 2.1 | 2.1 | 2.2 |

**INJURIES AND POISONINGS** | 800-999 | 2082 | 1572 | 510 | 10.1 | 8.4 | 27.5 | 8305 | 5872 | 2433 | 4.0 | 3.7 | 4.8 |

**FRACTURES, ALL SITES** | 800-828 | 675 | 464 | 211 | 3.3 | 2.5 | 11.4 | 3240 | 2024 | 1216 | 4.8 | 4.4 | 5.8 |

**DISLOCATIONS, SPRAINS** | 830-848 | 51 | 39 | 12 | 0.2 | 0.2 | 0.6 | 151 | 98 | 53 | 3.0 | 2.5 | 4.4 |

**LACERATIONS, OPEN WOUNDS** | 870-897 | 302 | 243 | 59 | 1.5 | 1.3 | 3.2 | 905 | 732 | 173 | 3.0 | 2.9 | 5.0 |

**SUPERFICIAL INJURY, CONTUSIONS** | 910-929 | 126 | 115 | 11 | 0.6 | 0.6 | 0.6 | 349 | 301 | 48 | 2.8 | 2.6 | 4.4 |

**BURNS** | 940-949 | 74 | 59 | 15 | 0.4 | 0.3 | 0.8 | 495 | 369 | 126 | 6.7 | 6.3 | 8.4 |

**POISONINGS** | 960-979 | 191 | 174 | 17 | 0.8 | 0.9 | 0.9 | 373 | 335 | 38 | 2.0 | 1.9 | 2.2 |

**SUPPLEMENTARY CLASSIFICATION**

| V01-V02 | 286 | 251 | 35 | 1.4 | 1.3 | 1.9 | 762 | 604 | 158 | 2.7 | 2.4 | 4.5 |

| V20.1 | 19 | 19 | 0 | 0.1 | 0.1 | 0.0 | 29 | 29 | 0 | 1.5 | 1.5 | 0.0 |

| V22-V24 | 36 | 35 | 1 | 0.2 | 0.2 | 0.1 | 56 | 53 | 3 | 1.6 | 1.5 | 3.0 |

| V25.2 | 41 | 41 | 0 | 0.2 | 0.2 | 0.0 | 45 | 45 | 0 | 1.1 | 1.1 | 0.0 |

| V51, V54, V56-V58, V68 | 72 | 53 | 19 | 0.3 | 0.3 | 1.0 | 360 | 246 | 114 | 5.0 | 4.6 | 6.0 |
TABLE 10. NUMBER OF DISCHARGES, HOSPITAL DAYS, AND AVERAGE LENGTH OF STAY, BY PRINCIPAL DIAGNOSIS INDIAN HEALTH SERVICE AND TRIBAL DIRECT AND CONTRACT GENERAL HOSPITALS, FISCAL YEAR 1996, FOR OKLAHOMA AREA

<p>| PRINCIPAL ICD-9-CM NUMBER OF DISCHARGES PERCENTAGE DISTRIBUTION HOSPITAL DAYS AVERAGE STAY |
| CODE | TOTAL DIRECT CONTRACT TOTAL DIRECT CONTRACT TOTAL DIRECT CONTRACT TOTAL DIRECT CONTRACT |
|------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| INFECTIOUS AND PARASITIC DISEASES 001-139 226 171 55 1.8 1.7 2.2 1248 817 431 5.5 4.8 7.8 |
| INTESTINAL INFECTIOUS DISEASES 001-009 43 35 8 0.3 0.3 0.3 176 154 22 4.1 4.4 2.8 |
| TUBERCULOSIS, ALL FORMS 010-018 15 14 1 0.1 0.1 0.0 247 218 29 16.5 15.6 29.0 |
| NEOPLASMS 140-239 429 320 109 3.3 3.1 4.3 2519 1627 892 5.9 5.3 4.8 |
| MALIGNANT NEOPLASMS 140-208 412 342 70 3.2 3.3 2.7 2426 2033 393 5.9 5.3 5.6 |
| ENDOCRINE, NUTRITIONAL &amp; METABOLIC DISEASES 240-279 631 518 113 4.9 5.0 4.4 3281 2742 539 5.2 5.3 4.8 |
| DIABETES MELLITUS 250 412 342 70 3.2 3.3 2.7 2426 2033 393 5.9 5.9 5.6 |
| DISEASES OF THE BLOOD &amp; BLOOD ORGANS 280-289 175 160 15 1.4 1.5 0.6 528 482 46 3.0 3.0 3.1 |
| MENTAL DISORDERS 290-319 226 173 53 1.8 1.5 3.6 948 490 458 4.2 3.7 4.9 |
| ALCOHOLIC PSYCHOSES 291 34 19 15 0.3 0.2 0.6 163 97 66 4.8 5.1 4.4 |
| OTHER PSYCHOSES 290-299 62 20 42 0.5 0.2 1.6 367 89 278 5.9 4.5 6.6 |
| ALCOHOL DEPENDENCE SYNDROME 303 75 58 17 0.6 0.6 0.7 251 195 56 3.3 3.4 3.3 |
| NON-DEPENDENT ALCOHOL ABUSE 305.0 17 14 3 0.1 0.1 0.1 50 45 5 2.9 3.2 1.7 |
| DISEASES OF THE NERVOUS SYS. &amp; SENSE ORGANS 320-389 111 73 38 0.9 0.7 1.5 453 304 149 4.1 4.2 3.9 |
| OTITIS MEDIA 381.0-381.4, 382 11 11 0 0.1 0.1 0.0 60 60 0 5.5 5.5 0.0 |
| CIRCULATORY SYSTEM DISEASES 390-459 1598 936 662 12.4 9.0 25.9 8138 3552 4586 5.1 3.8 6.9 |
| HYPERTENSIVE DISEASE 401-405 75 46 29 0.6 0.4 1.1 285 135 150 3.8 2.9 5.2 |
| ISCHEMIC HEART DISEASE 410-414 600 275 325 4.6 2.7 12.7 2269 655 1614 3.8 2.4 5.0 |
| OTHER HEART DISEASE 415-429 506 351 155 3.9 3.4 6.1 2878 1388 1490 5.7 4.0 9.6 |
| RESPIRATORY SYSTEM DISEASES 460-519 1194 996 198 9.2 9.6 7.8 5065 3944 1121 4.2 4.0 5.7 |
| UPPER RESPIRATORY DISEASES 460-478 236 212 24 1.8 2.0 0.9 659 585 74 2.8 2.8 3.1 |
| PNEUMONIA 480-486 459 374 85 3.6 3.6 3.3 2155 1702 453 4.7 4.6 5.3 |
| ASTHMA 493 209 179 30 1.6 1.7 1.2 613 537 76 2.9 3.0 2.5 |
| DIGESTIVE SYSTEM DISEASES 520-579 1642 1369 273 12.7 13.2 10.7 6513 5072 1441 4.0 3.7 5.3 |
| APPENDICITIS 540-543 194 159 35 1.5 1.5 1.4 852 727 125 4.4 4.6 3.6 |
| GASTROENTERITIS, COLITIS 558 186 178 10 1.5 1.7 0.4 462 431 31 2.5 2.4 3.1 |
| ALCOHOLIC LIVER DISEASE 571.0-571.3 46 24 22 0.4 0.2 0.3 486 173 193 8.0 7.2 8.8 |
| GALL BLADDER DISEASE 574.0-574.2, 575 420 380 40 3.3 3.7 1.8 1519 1299 220 3.8 3.4 5.5 |
| GENITOURINARY SYSTEM DISEASES 580-589 896 796 100 6.9 7.7 3.9 3152 2798 388 3.5 3.5 3.6 |
| URINARY SYSTEM DISEASES 580-599 373 307 66 2.9 3.0 2.6 1532 1289 243 4.1 4.2 3.7 |
| FEMALE GENITAL TRACT DISEASES 614-629 489 445 44 3.6 4.3 0.9 1452 1373 79 3.1 3.1 3.3 |</p>
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## TABLE 10. NUMBER OF DISCHARGES, HOSPITAL DAYS, AND AVERAGE LENGTH OF STAY, BY PRINCIPAL DIAGNOSIS

**Indian Health Service and Tribal Direct and Contract General Hospitals, Fiscal Year 1996, for Phoenix Area**  
(Continued)

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<tr>
<th>PRINCIPAL DIAGNOSIS</th>
<th>ICD-9-CM CODE</th>
<th>NUMBER OF DISCHARGES</th>
<th>PERCENTAGE DISTRIBUTION</th>
<th>HOSPITAL DAYS</th>
<th>AVERAGE STAY</th>
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TABLE 10. NUMBER OF DISCHARGES, HOSPITAL DAYS, AND AVERAGE LENGTH OF STAY, BY PRINCIPAL DIAGNOSIS
INDIAN HEALTH SERVICE AND TRIBAL DIRECT AND CONTRACT GENERAL HOSPITALS, FISCAL YEAR 1986, FOR PORTLAND AREA

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<th>AVERAGE STAY</th>
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<td>TOTAL</td>
<td>DIRECT CONTRACT</td>
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| DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE   | 680-709       | 169   | 154            | 15    | 14.8         | 16.3  | 7.4           | 1307 | 1178| 129 | 7.7 | 7.6 | 8.6 |
| CELLULITIS AND ABSCESSION, EXCEPT DIGIT        | 682           | 100   | 118            | 12    | 11.4         | 12.5  | 5.9           | 953  | 895 | 58  | 7.3 | 7.6 | 4.8 |

| DISEASES-MUSCULOSKELETAL TISSUE AND CONNECT TISSUE | 710-739    | 44    | 37             | 7     | 3.8          | 3.9   | 3.4           | 432  | 395 | 37  | 9.8 | 10.7 | 5.3 |

| CONGENITAL ANOMALIES                           | 740-759      | 1     | 1              | 0     | 0.1          | 0.1   | 0.0           | 7    | 7   | 0   | 7.0 | 7.0 | 0.0 |

| CONDITIONS ORIGINATING IN PERINATAL PERIOD     | 760-779      | 8     | 7              | 1     | 0.7          | 0.7   | 0.5           | 24   | 23  | 1   | 3.0 | 3.3 | 1.0 |

| SHORT GESTATION, LOW BIRTHWEIGHT DISORDERS     | 765          | 1     | 1              | 0     | 0.1          | 0.1   | 0.0           | 9    | 9   | 0   | 9.0 | 9.0 | 0.0 |

| SYMPTOMS, SIGNS AND ILL-DEFINED CONDITIONS     | 780-799      | 71    | 64             | 7     | 6.2          | 6.8   | 3.4           | 240  | 228 | 12  | 3.4 | 3.6 | 1.7 |

| CONVULSIONS                                    | 780.3        | 20    | 19             | 1     | 1.7          | 2.0   | 0.5           | 56   | 55  | 1   | 2.8 | 2.9 | 1.0 |

| ABDOMINAL PAIN                                 | 789.0        | 10    | 7              | 3     | 0.9          | 0.7   | 1.5           | 26   | 21  | 5   | 2.6 | 3.0 | 1.7 |

| INJURIES AND POISONINGS                        | 800-999      | 102   | 65             | 37    | 8.9          | 6.9   | 18.2          | 589  | 480 | 109 | 5.8 | 7.4 | 2.9 |

| FRACTURES, ALL SITES                           | 800-828      | 25    | 11             | 14    | 2.2          | 1.2   | 6.9           | 141  | 75  | 66  | 5.6 | 6.8 | 4.7 |

| DISLOCATIONS, SPRAINS                          | 830-848      | 4     | 3              | 1     | 0.3          | 0.1   | 1.5           | 11   | 5   | 5   | 2.8 | 6.0 | 1.7 |

| LACERATIONS, OPEN WOUNDS                       | 870-897      | 11    | 8              | 3     | 1.0          | 0.8   | 1.5           | 39   | 35  | 4   | 3.5 | 4.4 | 1.3 |

| SUPERFICIAL INJURY, CONTUSIONS                 | 910-929      | 8     | 6              | 2     | 0.7          | 0.6   | 1.0           | 92   | 89  | 3   | 11.5 | 14.8 | 1.5 |

| BURNS                                          | 940-949      | 13    | 12             | 1     | 1.1          | 1.3   | 0.5           | 136  | 133 | 3   | 10.5 | 11.1 | 3.0 |

| POISONINGS                                     | 960-979      | 3     | 2              | 1     | 0.3          | 0.2   | 0.5           | 9    | 8   | 1   | 3.0 | 4.0 | 1.0 |

| SUPPLEMENTARY CLASSIFICATION                   | V01-V82      | 23    | 22             | 1     | 2.0          | 2.3   | 0.5           | 177  | 176 | 1   | 7.7 | 8.0 | 1.0 |

| HEALTHY INFANT CHILD CARE                      | V20.1        | 4     | 4              | 0     | 0.3          | 0.4   | 0.0           | 13   | 13  | 0   | 3.3 | 3.3 | 0.0 |

| PREGNATAL, POSTPARTUM SUPERVISION              | V22-V24      | 0     | 0              | 0     | 0.0          | 0.0   | 0.0           | 0    | 0   | 0   | 0.0 | 0.0 | 0.0 |

| STERILIZATION                                  | V25.2        | 0     | 0              | 0     | 0.0          | 0.0   | 0.0           | 0    | 0   | 0   | 0.0 | 0.0 | 0.0 |

| AFTERCARE                                      | V51, V54, V56-V58, V66 | 15    | 15             | 0     | 1.3          | 1.6   | 0.0           | 158  | 158 | 0   | 10.5 | 10.5 | 0.0 |
APPENDIX

I. DATA FORMS ................................................................. 76

II. DEFINITIONS OF SELECT TERMS USED IN THIS REPORT ........... 78
## APPENDIX I - Data Forms

**CLINICAL RECORD BRIEF - IHS INPATIENT SERVICES**

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**DISPOSITION (check one)**

1. DISCHARGED
2. TRANSFERRED
3. IRRGULAR DISCHARGE

**CLINICAL SERVICE DISCHARGED FROM**

1. DIED WITHIN 48 HOURS
2. 5. WITHOUT AUTOPSY
3. 6. WITH AUTOPSY

**CLINICAL SERVICE CODE**

1. WITH AUTOPSY
2. DIED AFTER 48 HOURS
3. 7. WITHOUT AUTOPSY

**NAME OF FACILITY TRANSFERRED TO**

1. DIED AFTER 48 HOURS
2. IRRTGLAR DISCHARGE

**PLACE OF INJURY**

1. WITHIN 48 HOURS
2. TRANSFERRED
3. DIED AFTER 48 HOURS

**WARNING**

6. DUE TO
7. DUE TO (underlying cause)
8. UNDERLYING CAUSE

**DATE**

9. CAUSE OF DEATH (immediate)
10. DUE TO

**ATTENDING PHYSICIAN'S SIGNATURE**

11. DATE
12. ATTENDING PHYSICIAN CODE
13. REVIEWED BY

**MEDICAL RECORD**

14. MEDICAID ID #
15. MEDICARE ID #
16. VA ID #
17. OTHER ID #

**REVIEWED BY**

18. HRS. REC'D
19. REVIEWED BY

**REVIEWED BY**

1. ATTENDING PHYSICIAN’S SIGNATURE
2. ATTENDING PHYSICIAN CODE

**PREPARATION**

1. APPENDIX I - Data Forms
2. CLINICAL RECORD BRIEF - IHS INPATIENT SERVICES

**REV. 8-82**

**MRSA-44-1**
# Contract Health Service

**Purchase Order for Hospital Services Rendered**

**Patient Identification**
- Enter HHS Unit Number
- Social Security Number

**Ordering Facility and Provider**
- Name

**Date**

**Provider**
- If it is determined to be medically necessary to incur expenses in excess of the estimated charges, first contact the ordering official. Read instructions on reverse of original and 4th provider copy. Payment of excess charges are not authorized herein.

## Admissions and Discharge

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<th>Admission Date (Mo. Day, Yr.)</th>
<th>Discharge Date (Mo. Day, Yr.)</th>
<th>Total Days</th>
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<td>2. Discharge</td>
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<tr>
<td>3. Died 48 Hours</td>
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<td>4. Died 48 Hours</td>
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<tr>
<td>5. Transferred</td>
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</table>

## Type of Disposition (Check One)

- IRREGULAR
- Discharge
- Less than
- Died 48 Hours
- Over
- Transferred

## Diagnostic Code

- ICD-9-CM
- Diagnostic Code

## Established Diagnoses

- ICD-9-CM
- Diagnosis Code

## Operative and Selected Procedures

- ICD-9-CM
- Operation Code

## Diagnosis of Newborn on Discharge

- ICD-9-CM
- Code

## Admission to Discharge

- Check if NB Death
- Stillborn

## Attending Physician's Name

- ICD-9-CM
- Code

## Place

- Inspection

## Place Code

**Total Charges (Per Diem Rate X Total Days):**

1. If per diem used, complete the following and enter total in Box 36.
2. If billed charges, attach itemized bill showing all charges and enter total in Box 36.

**Signature of Provider**

**Signature of Ordering Officer**

**Date**

**Form Approved**

**Date**

**Department of Health and Human Services**

**Public Health Service**

**Health Resources and Services Administration**

**Indian Health Service**

**Promulgate Act Applies**

**See Conditions On Reverse of 4th Copy**

**Revised Copy**

**Original**

**Finance**
APPENDIX II - DEFINITIONS OF SELECT TERMS USED IN THIS REPORT

Hospitals and Hospital Characteristics

Direct Hospitals - Direct hospitals are general, short-stay hospitals operated by the Indian Health Service or by the tribes.

Contract Hospitals - Contract Hospitals are general short-stay community hospitals that provide inpatient services under contract to the IHS or to the tribes.

Short-Stay Hospitals - Short-stay hospitals are general community hospitals with 6 beds or more for inpatient use and an average length of stay of less than 30 days.

Patient - A person who is formally admitted to the inpatient service of a short-stay hospital for observation, care, diagnosis, or treatment is considered a patient. In this report the number of patients refers to the number of discharges during the year, including any multiple discharges of the same individual from one or more short-stay hospitals. Newborn infants, defined as those admitted by birth to the hospital, are excluded from the tables in this report. Infants admitted on the day of birth directly or by transfer from another medical facility, with or without mention of a disease, disorder, or immaturity are included. In IHS and contract hospitals, newborn infants remaining in the hospital for more than 5 days are automatically admitted and counted as a new patient as of that day.

Discharge - Discharge is the formal release of a patient by a hospital; that is, the termination of a period of hospitalization by death or disposition to place of residence, nursing home, or another hospital. The terms "discharges" and "patients discharged" are used synonymously.

Discharge Rate - The ratio of the number of hospital discharges during a year to the number of persons in the population of that year determines the discharge rate.

Age Adjusted Discharge Rate - The IHS and U.S. discharges rates are age adjusted, when appropriate, to the 1970 civilian non-institutionalized population using the following four age groups: under 15 years, 15-44 years, 45-64 years, and 65 years and over.

Days of Care or Hospital Days - The total number of patient days accumulated at the time of discharge by patients discharged from short-stay hospitals during a year constitutes days of care. A stay of less than 1 day (patient admission and discharge on the same day) is counted as 1 day in the summation of total days of care. For patients admitted and discharged on different days, the number of days of care is computed by counting all days from (and including) the date of admission to (but not including) the date of discharge.
**Average Length of Stay (ALOS)** - The average length of stay is the total number of hospital days accumulated at time of discharge by patients discharged during the year divided by the number of patients discharged.

**Diagnoses and Procedures**

**Discharge Diagnoses** - One or more diseases or injuries (or some factor that influences health status and contact with health services that is not itself a current illness or injury) diagnosed by the attending physician and listed on the Clinical Record Brief (Form IHS-44-1) for IHS hospitals and Purchase Order for Hospital Services Rendered (Form IHS-43-1) for contract hospitals for each patient. Each discharge is assigned a maximum of six 5-digit codes according to ICD-9-CM. The number of principal or first-listed diagnoses is equivalent to the number of discharges.

**Principal Diagnosis** - The condition established after study to be chiefly responsible for occasioning the admission of the patient to the hospital for care is called the principal diagnosis.

**First-Listed Diagnosis** - The coded diagnosis identified as the principal diagnosis which is listed first on Form IHS-43-1 (contract hospitals) and Form IHS-44-1 (direct hospitals) is the first-listed diagnosis.

**Procedure** - A procedure is one or more surgical or non-surgical operations, procedures, or special treatments performed by the physician and listed on Form IHS-43-1 (contract hospitals) and Form IHS-44-1 (direct hospitals) for each patient. A maximum of three 4-digit codes is assigned per discharge according to ICD-9-CM. This report covers all listed procedures for each patient.

**Demographics**

**Age** - Patient's age refers to age at time of admission to the hospital inpatient services.

**Area** - The IHS is comprised of 11 regional administrative units called Areas. In addition, an IHS headquarters Office located in Tucson is responsible for delivering health services in that area. For statistical purposes, the Tucson Office is also considered an Area Office, thereby making a total of 12 IHS Areas.

**Area Names:**

- Aberdeen Area
- Alaska Area
- Albuquerque Area
- Bemidji Area
- Billings Area
- California Area
- Nashville Area
- Navajo Area
- Oklahoma Area
- Phoenix Area
- Portland Area
- Tucson Area