

9. What would the implications of having a greater level of bandwidth be?

Clarity of picture with no jerkiness

10. Do you have e-mail? No Yes _____

11. Do you have Internet access? No Yes _____

If yes, do you incur long-distance charges by using it?

No Yes _____

Please estimate your number of hours of internet use per month:

12. If you have access to the Internet, please list any purposes other than e-mail (such as accessing databases such as Lexis/Nexis)? for which you use it:

#18

UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE FACSIMILE TRANSMISSION COVER SHEET		1. DATE 12-12-96	3. NUMBER OF PAGES <small>(including this cover sheet)</small> 7
		2. TIME	
4. DELIVER TO		5. TRANSMISSION FROM	
a. FACSIMILE TELEPHONE NUMBER (include area code) (501) 223-7044		a. FACSIMILE TELEPHONE NUMBER (202) 205-2921	
b. NAME MS. LINDA FINLEY		b. NAME PAM BENNETT	
c. ORGANIZATION/FIRM BAPTIST MEDICAL CENTER ARKADELPHIA		RURAL UTILITIES SERVICE	
		c. TELEPHONE (202) 720-0803	
6. SUBJECT Telemedicine User Survey <i>To: Jack Dighty P 1077</i> <i>From: Linda Finley</i>			
7. MESSAGE The contents of this fax are very important. It concerns the FCC's proposed rulings concerning telemedicine Users receiving discounted rates on telecommunication services. Your participation is voluntary but very beneficial. The FCC needs to know the types of transmission facilities being used and the costs of the facilities. Please respond as quickly as possible. I will be contacting you in a few days to follow up on this fax. Thank you for your consideration. Please feel free to call if you have any questions. <i>To: Pam Bennett</i> <i>From: Linda Finley P 1077</i>			
IF YOU HAVE ANY PROBLEMS RECEIVING THIS MESSAGE, PLEASE CONTACT _____ (202) 720-_____. THIS MESSAGE IS BEING SENT ON A LANIER 2275 _____ DIGITAL FACSIMILE TRANSCIVER.			

DEC-19-96 THU 11:49 AM LINDA FINLEY
DEC-17-96 TUE 12:35 PM LINDA FINLEY

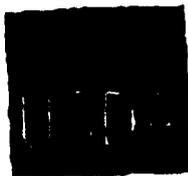
FAX NO. 5012237044
FAX NO. 5012237044

P. 2
P. 2

FROM : USDA RUS

2022052321

1996.12-12 11:31 #412 P.02/07



December 12, 1996

United States
Department of
Agriculture

Rural Utilities Service

Washington, DC 20250-1800

SUBJECT: Federal Communications Commission Inquiry
Support of Rural Telemedicine

TO: All RUS Telemedicine Grant Recipients

FROM: ROBERT PETERS
Assistant Administrator

As you may know, the Telecommunications Act of 1996 requires that certain rural telemedicine users be provided telemedicine-related communications services at the same rates as urban users. The Federal Communications Commission (FCC) is currently writing rules to assure that this portion of the Act is carried out fairly.

As an RUS telemedicine grant recipient, you are one of the pioneers in rural telemedicine. Your experience with telemedicine could be invaluable to the FCC as it prescribes the levels of support for rural telemedicine users.

The FCC has requested RUS and other agencies with Federal telemedicine grant programs to ask you to complete the enclosed survey. There are fewer than 100 rural telemedicine grant recipients nationally who could answer the survey questions. Although participating in the survey is voluntary, we believe this is a convenient way for you to influence a proceeding that will affect the communications rates you pay for telemedicine.

The primary targets of this survey are to learn the cost differentials between communications services in urban areas and rural areas, to learn the data rate or bandwidth of the most used communications services (i.e. 144 kb/s ISDN, T1, fractional T1, voice), and to study Internet usage.

Some RUS grant recipients receiving this survey may not have implemented proposed telemedicine networks or systems. If this is your situation, please complete the survey to the best of your ability. You may already know the costs and fees for your telemedicine services, and probably considered other technologies prior to applying for your grant.

The enclosed draft letter was also provided by the FCC to help explain the inquiry. Please note that RUS realizes you cannot respond by their target date of December 13, 1996. Nevertheless, your input is considered vital by the FCC, and we understand that surveys received in the near future will be an important factor as they make their determinations.

To expedite the process, we are sending you the survey by facsimile and we ask that you respond by facsimile as soon as possible. Please return this survey to:

Orren E. Cameron III
Rural Utilities Service
Phone: 202-720-8663
FAX: 202-720-4099

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DEC-19-96 THU 11:50 AM LINDA FINLEY
DEC-17-96 TUE 12:35 PM LINDA FINLEY

FAX NO. 5012237044
FAX NO. 5012237044

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P. 3

FROM : USDA RUS

2022052921

1996.12-12

11:32

#412 P.03/07

TELEMEDICINE USER SURVEY

1. Name of project:

BMC H Tele radiology

2. Please list each of the project's sites:

Name of Site:

State in which it is located:

Baptist Med. Ctr., Arkadelphia, ARKANSAS

Please answer the following questions for each of your sites. Use additional sheets if necessary.

3. What is the nearest city of population equal to or greater than 50,000 in your state, and approximately how far are you from its boundary?

City: Little Rock Distance from city boundary: 70 miles

4. Name of the project's telecommunications service provider:

?

5. Level of telecommunications service the project is currently using: (For example: voice grade, 144 Kbps (ISDN), 384 Kbps, T-1 or equivalent, or higher rate)

144

6. Charges for telecommunications service:

Is there a monthly charge? No X Yes _____

If yes, how much is the charge? _____

Is there a usage-based charge? No X Yes _____
If yes, how much is the charge? _____

Is there a distance component (such as a per-mile fee) of the charge?
No X Yes _____
If yes, how much is the charge? _____

Was there an installation fee? No X Yes _____
If yes, how much is the charge? _____

Is the charge the regular/tariffed rate, or is there a discount from the telecommunications provider? Tariffed X Discount _____
If there is a discount, how much is it? _____

7. How does the project use telecommunications in the delivery of health care? (For example -- to send x-rays, distribute public health information, or perform video consultations. Please identify any occasional or episodic uses, such as might result from an outbreak of disease.)

SEND X-RAYS

8. Could the project provide the services it is currently providing with less bandwidth? What effect would a lesser level of bandwidth have? (The implications of using greater or lesser levels of telecommunications services are related to image transmission time. What would be the impact if the health care activities for which you now use telecommunications took twice as long, or if they could be completed in half the time?)

① Yes ② But, The time the patient has to wait for a consult or result would be longer due to slower sending time. Would this improve their care? I don't think so. HALF the time would be good.

DEC-19-96 THU 11:51 AM LINDA FINLEY

FAX NO. 5012237044

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DEC-17-96 TUE 12:36 PM LINDA FINLEY

FAX NO. 5012237044

P. 5

FROM: USBA RUS

2022052921

1996.12.12 11:33 #412 P.05/07

9. What would the implications of having a greater level of bandwidth be?

Speed of sending messages - faster than
around time on reports
But, we don't send that many emergency faxes.

10. Do you have e-mail? No Yes

11. Do you have Internet access? No Yes

If yes, do you incur long-distance charges by using it?

No Yes

Please estimate your number of hours of internet use per month:

12. If you have access to the Internet, please list any purposes other than e-mail (such as accessing databases such as Lexis/Nexis)? for which you use it:

N/A



MARQUETTE
General Hospital

REGIONAL MEDICAL CENTER

420 W. Magnetic Street Marquette, MI 49855
906-228-9440 1-800-562-9753

#19

EDUCATION DEPARTMENT

FAX (906)225-3037

PHONE: (906)225-3470

TO: Oren Cameron
202 720 4099

PAGES: ~~48~~ 24 of 48 (1-24)
(INCLUDING COVER SHEET).

FROM: Sanielle Waggoner

PLEASE CALL THE ABOVE NUMBER IF YOU HAVE ANY QUESTIONS/CONCERNS REGARDING THIS TRANSMISSION.



MARQUETTE

General Hospital

REGIONAL MEDICAL CENTER

420 W. Magnetic Street Marquette, MI 49855
906-228-9440 1-800-562-9753

EDUCATION DEPARTMENT

FAX (906)225-3037

PHONE: (906)225-3470

TO: Oren Cameron
202 720 4099

PAGES: ~~48~~ 24 of 48 (2-24)
(INCLUDING COVER SHEET).

FROM: Sarielle Waggoner

PLEASE CALL THE ABOVE NUMBER IF YOU HAVE ANY QUESTIONS/CONCERNS REGARDING THIS TRANSMISSION.

TELEMEDICINE USER SURVEY

1. Name of project:

Upper Peninsula Telemedicine Network

2. Please list each of the project's sites:

Name of Site:

State in which it is located:

Marquette General Hospital Michigan

Please answer the following questions for each of your sites. Use additional sheets if necessary.

3. What is the nearest city of population equal to or greater than 50,000 in your state, and approximately how far are you from its boundary?

City: Saginaw, MI Distance from city boundary: 355 mi

4. Name of the project's telecommunications service provider:

Ameritech - local AT&T - long distance

5. Level of telecommunications service the project is currently using: (For example: voice grade, 144 Kbps (ISDN), 384 Kbps, T-1 or equivalent, or higher rate)

128 Kbps - 384 Kbps ISDN POTs for teleradiology

6. Charges for telecommunications service:

Is there a monthly charge? No

Yes X

If yes, how much is the charge?

332 ISDN

\$ 16 / mo

384 Kbps

mg+

Is there a usage-based charge? No X Yes _____
If yes, how much is the charge? _____

Is there a distance component (such as a per-mile fee) of the charge?
No _____ Yes X

If yes, how much is the charge? 3 BRKSDN ~ \$5/mi - hospital is 1 mi from the switch
384 Kbps

Was there an installation fee? No _____ Yes X

If yes, how much is the charge? ISDN #117 * X3 = \$351+

Is the charge the regular tariffed rate, or is there a discount from the telecommunications provider? Tariffed X Discount _____

If there is a discount, how much is it? _____

7. How does the project use telecommunications in the delivery of health care? (For example -- to send x-rays, distribute public health information, or perform video consultations. Please identify any occasional or episodic uses, such as might result from an outbreak of disease.)

Video Conference - telepsychiatry
physician allied provider
education - telepathology
Category I MRI - accredited
discharge planning
pediatric sleep study (1)
Upper Michigan Public Health Dept
Tumor Board
tele-radiology - ultrasound x-rays CT MRI

8. ① Could the project provide the services it is currently providing with less bandwidth? What effect would a lesser level of bandwidth have? (The implications of using greater or lesser levels of telecommunications services are related to image transmission time. What would be the impact if the health care activities for which you now use telecommunications took twice as long, or if ② they could be completed in half the time?)

① We currently use the lowest bandwidth available for our applications. The video conference system uses 128-384 Kbps and tele-radiology POTS. This transmission and bandwidth was chosen due to high cost for alternatives and wide bandwidth

② We already go as slow as we can! Decreasing the amount of time to accomplish our applications would be looked on favorably. We may even discover new applications with improved video.

Mgt

9. What would the implications of having a greater level of bandwidth be?

Greater physician comfort with the technology in all medical specialties/applications

10. Do you have e-mail? No _____ Yes X

11. Do you have Internet access? No _____ Yes X

If yes, do you incur long-distance charges by using it?

No X Yes _____

Please estimate your number of hours of internet use per month:

~ 2 hrs / mo

12. If you have access to the Internet, please list any purposes other than e-mail (such as accessing databases such as Lexis/Nexis)? for which you use it:

Telemedicine Information Exchange

TELEMEDICINE USER SURVEY

1. Name of project:

Upper Peninsula Telemedicine Network

2. Please list each of the project's sites:

Name of Site:

State in which it is located:

Munising Memorial Hospital Michigan

Please answer the following questions for each of your sites. Use additional sheets if necessary.

3. What is the nearest city of population equal to or greater than 50,000 in your state, and approximately how far are you from its boundary?

City: Saginaw MI Distance from city boundary: 312 mi.

4. Name of the project's telecommunications service provider:

Ameritech, Hiawatha Telephone Co. AT&T long distance

5. Level of telecommunications service the project is currently using: (For example: voice grade, 144 Kbps (ISDN), 384 Kbps, T-1 or equivalent, or higher rate)

128 Kbps - ~~384 Kbps~~ POTS for telemedicine

6. Charges for telecommunications service:

Is there a monthly charge? No _____ Yes X
If yes, how much is the charge? 1 BR ISDN \$170/mo 128Kbps

TELEMEDICINE USER SURVEY

1. Name of project:

Upper Peninsula Telemedicine Network

2. Please list each of the project's sites:

Name of Site:

State in which it is located:

Helen Newberry Joy Hospital Michigan

Please answer the following questions for each of your sites. Use additional sheets if necessary.

3. What is the nearest city of population equal to or greater than 50,000 in your state, and approximately how far are you from its boundary?

City: Saginaw, MI Distance from city boundary: 262 mi

4. Name of the project's telecommunications service provider:

Ameritech - local ; AT&T long distance

5. Level of telecommunications service the project is currently using: (For example: voice grade, 144 Kbps (ISDN), 384 Kbps, T-1 or equivalent, or higher rate)

128 Kbps - 384 Kbps POTS for Telemedicine

6. Charges for telecommunications service:

Is there a monthly charge? No Yes X
If yes, how much is the charge? 3 ISDN \$640/mo 384 Kbps

New

Is there a usage-based charge? No X Yes _____
If yes, how much is the charge? _____

Is there a distance component (such as a per-mile fee) of the charge?
No _____ Yes X

If yes, how much is the charge? 1 BRISDN ~ \$2/mi 128Kbps leg - New 105

Was there an installation fee? No _____ Yes X

If yes, how much is the charge? 3 BR ISDN \$817 x 3 = \$2,451

Is the charge the regular tariffed rate, or is there a discount from the telecommunications provider? Tariffed X Discount _____

If there is a discount, how much is it? _____

7. How does the project use telecommunications in the delivery of health care? (For example -- to send x-rays, distribute public health information, or perform video consultations. Please identify any occasional or episodic uses, such as might result from an outbreak of disease.)

Video Conference - physician and allied provider education
Rural Health Project, Dept of Public Hlth
Regional HIV/AIDS group

Tele-radiology - ultrasound, x-rays, CT, MRI

①
8. Could the project provide the services it is currently providing with less bandwidth? What effect would a lesser level of bandwidth have? (The implications of using greater or lesser levels of telecommunications services are related to image transmission time. What would be the impact if the health care activities for which you now use telecommunications took twice as long, or if they could be completed in half the time?)

① We currently use the lowest bandwidth available for our applications. This transmission bandwidth was chosen due to high cost for alternatives and wider bandwidth

② We began with the lowest bandwidth!

③ Decreasing the amount of time to accomplish our application would be looked on favorably. We may even discover new applications with improved video.

New

9. What would the implications of having a greater level of bandwidth be?

Greater physician comfort with the technology
in all medical specialties/applications

10. Do you have e-mail? No _____ Yes _____

Don't know

11. Do you have Internet access? No _____ Yes _____

If yes, do you incur long-distance charges by using it?

No _____ Yes _____

Please estimate your number of hours of internet use per month:

12. If you have access to the Internet, please list any purposes other than e-mail (such as accessing databases such as Lexis/Nexis)? for which you use it:

TELEMEDICINE USER SURVEY

1. Name of project:

Upper Peninsula Telemedicine Network

2. Please list each of the project's sites:

Name of Site:

State in which it is located:

Community Medical Center - MGH Home Health & Hospice Michigan

Please answer the following questions for each of your sites. Use additional sheets if necessary.

3. What is the nearest city of population equal to or greater than 50,000 in your state, and approximately how far are you from its boundary?

City: Saginaw, MI Distance from city boundary: 246 mi

4. Name of the project's telecommunications service provider:

Ameritech - local AT&T long distance

5. Level of telecommunications service the project is currently using: (For example: voice grade, 144 Kbps (ISDN), 384 Kbps, T-1 or equivalent, or higher rate)

128 Kbps - 384 Kbps POTs for telemedicine

6. Charges for telecommunications service:

Is there a monthly charge? No Yes X
If yes, how much is the charge? 1 BR ISDN \$342/mo 128 Kbps

SSM I

Is there a usage-based charge? No X Yes _____
If yes, how much is the charge? _____

Is there a distance component (such as a per-mile fee) of the charge?
No _____ Yes X

If yes, how much is the charge? 1 BR ISDN ~ 2/mi 128 Kbps Met -> SSM 165 mi

Was there an installation fee? No _____ Yes X
If yes, how much is the charge? \$817+

Is the charge the regular tariffed rate, or is there a discount from the telecommunications provider? Tariffed X Discount _____
If there is a discount, how much is it? _____

7. How does the project use telecommunications in the delivery of health care? (For example -- to send x-rays, distribute public health information, or perform video consultations. Please identify any occasional or episodic uses, such as might result from an outbreak of disease.)

Video Conference - physician & allied provider education
- home health and hospice
Regional HIV/AIDS group
Trial or Board

8. ¹ Could the project provide the services it is currently providing with less bandwidth? What effect would a lesser level of bandwidth have? (The implications of using greater or lesser levels of telecommunications services are related to image transmission time. ² What would be the impact if the health care activities for which you now use telecommunications took twice as long, or if ³ they could be completed in half the time?)

¹ We currently use the lowest bandwidth available for our applications. ISDN transmission, 128 Kbps, was chosen due to high cost for alternatives and wide bandwidth.

² We function at the lowest bandwidth!

³ Decreasing the amount of time to accomplish our applications would be looked on favorably. We may even discover new cost saving applications with improved video.

SSMI

9. What would the implications of having a greater level of bandwidth be?

Greater physician comfort with the technology
in all medical specialties/applications

10. Do you have e-mail? No _____ Yes _____

Don't Know

11. Do you have Internet access? No _____ Yes _____

If yes, do you incur long-distance charges by using it?

No _____ Yes _____

Please estimate your number of hours of internet use per month:

12. If you have access to the Internet, please list any purposes other than e-mail (such as accessing databases such as Lexis/Nexis)? for which you use it:

TELEMEDICINE USER SURVEY

1. Name of project:

Upper Peninsula Telemedicine Network

2. Please list each of the project's sites:

Name of Site:

State in which it is located:

Superior Health Alliance Michigan

Please answer the following questions for each of your sites. Use additional sheets if necessary.

3. What is the nearest city of population equal to or greater than 50,000 in your state, and approximately how far are you from its boundary?

City: Saginaw, MI Distance from city boundary: 246 mi

4. Name of the project's telecommunications service provider:

Ameritech - local AT&T long distance

5. Level of telecommunications service the project is currently using: (For example: voice grade, 144 Kbps (ISDN), 384 Kbps, T-1 or equivalent, or higher rate)

128 Kbps - 384 Kbps POTs for ~~tele~~radiology

6. Charges for telecommunications service:

Is there a monthly charge? No _____ Yes X
If yes, how much is the charge? _____ 1 BR ISDN \$342/mo 128Kbps

**System not yet installed, based on existing line in the same town.*

SSM D

Is there a usage-based charge? No X Yes _____
If yes, how much is the charge? _____

Is there a distance component (such as a per-mile fee) of the charge?
No _____ Yes X

If yes, how much is the charge? 1 BR ISDN ~ \$2/mi 128Kbps Mt -> SSM 165m

Was there an installation fee? No _____ Yes X
If yes, how much is the charge? 1 BR ISDN \$ 817+

Is the charge the regular tariffed rate, or is there a discount from the telecommunications provider? Tariffed X Discount _____
If there is a discount, how much is it? _____

7. How does the project use telecommunications in the delivery of health care? (For example -- to send x-rays, distribute public health information, or perform video consultations. Please identify any occasional or episodic uses, such as might result from an outbreak of disease.)

Video Conference - This system has not yet been installed.

①
8. Could the project provide the services it is currently providing with less bandwidth? What effect would a lesser level of bandwidth have? (The implications of using greater or lesser levels of telecommunications services are related to image transmission time. ② What would be the impact if the health care activities for which you now use telecommunications took twice as long, or if ③ they could be completed in half the time?)

- ① We will be using the lowest bandwidth available for our applications. ISDN transmission, 128 Kbps, was chosen due to high cost for alternatives and wide bandwidth.
- ② This will be the lowest bandwidth!
- ③ Decreasing the amount of time to accomplish our applications would be looked on favorably.

SM II

9. What would the implications of having a greater level of bandwidth be?

Greater physician comfort with the technology in all medical specialties/applications

10. Do you have e-mail? No _____ Yes _____

Don't know

11. Do you have Internet access? No _____ Yes _____

If yes, do you incur long-distance charges by using it?

No _____ Yes _____

Please estimate your number of hours of internet use per month:

12. If you have access to the Internet, please list any purposes other than e-mail (such as accessing databases such as Lexis/Nexis)? for which you use it:

TELEMEDICINE USER SURVEY

1. Name of project:

Upper Peninsula Telemedicine Network

2. Please list each of the project's sites:

Name of Site:

State in which it is located:

Schoolcraft Memorial Hospital Michigan

Please answer the following questions for each of your sites. Use additional sheets if necessary.

3. What is the nearest city of population equal to or greater than 50,000 in your state, and approximately how far are you from its boundary?

City: Saginaw MI Distance from city boundary: 282 mi

4. Name of the project's telecommunications service provider:

Ameritech - coordinated with GTE, the local independent telco. AT: T - long distance.

5. Level of telecommunications service the project is currently using: (For example: voice grade, 144 Kbps (ISDN), 384 Kbps, T-1 or equivalent, or higher rate)

~~128 Kbps~~ - 384 Kbps POTs for teleradiology

6. Charges for telecommunications service:

Is there a monthly charge? No _____ Yes X
If yes, how much is the charge? 3 BR ISDN \$ 654 / mo 384 Kbps

Man

Is there a usage-based charge? No X Yes _____
If yes, how much is the charge? _____

Is there a distance component (such as a per-mile fee) of the charge?
No _____ Yes X

If yes, how much is the charge? 3 BR ISDN ~ \$2.50 / mi 384 Kbps Met - Man 87m:

Was there an installation fee? No _____ Yes X

If yes, how much is the charge? 3 BR ISDN = \$817 * 3 = \$2,451

Is the charge the regular tariffed rate, or is there a discount from the telecommunications provider? Tariffed X Discount _____

If there is a discount, how much is it? _____

7. How does the project use telecommunications in the delivery of health care? (For example - to send x-rays, distribute public health information, or perform video consultations. Please identify any occasional or episodic uses, such as might result from an outbreak of disease.)

Video Conference - physician & allied care provider education
telepsychiatry
tumor board Upper Michigan Public Health Depts.

Teleradiology - ultrasound, X-ray, CT & MRI

8. ¹ Could the project provide the services it is currently providing with less bandwidth? What effect would a lesser level of bandwidth have? (The implications of using greater or lesser levels of telecommunications services are related to image transmission time. ² What would be the impact if the health care activities for which you now use telecommunications took twice as long, or if ³ they could be completed in half the time?)

¹ We currently use the lowest bandwidth available for our applications. ISDN transmission, 128 Kbps, was chosen due to high cost for alternatives and wide bandwidth.

² We function at the lowest bandwidth.

³ Decreasing the amount of time to accomplish our applications would be looked on favorably. We may even discover new cost saving applications with improved video.

Man

9. What would the implications of having a greater level of bandwidth be?

Greater physician comfort with the technology in all medical specialties/applications

10. Do you have e-mail? No _____ Yes _____

Don't know

11. Do you have Internet access? No _____ Yes _____

↓

If yes, do you incur long-distance charges by using it?

No _____ Yes _____

Please estimate your number of hours of internet use per month:

12. If you have access to the Internet, please list any purposes other than e-mail (such as accessing databases such as Lexis/Nexis)? for which you use it:

TELEMEDICINE USER SURVEY

1. Name of project:

Upper Peninsula Telemedicine Network

2. Please list each of the project's sites:

Name of Site:

State in which it is located:

Marquette Medical Clinic (MMC) - Escanaba Michigan

Please answer the following questions for each of your sites. Use additional sheets if necessary.

3. What is the nearest city of population equal to or greater than 50,000 in your state, and approximately how far are you from its boundary?

City: Saginaw MI Distance from city boundary: 175 mi

4. Name of the project's telecommunications service provider:

Ameritech - local AT&T - long distance

5. Level of telecommunications service the project is currently using: (For example: voice grade, 144 Kbps (ISDN), 384 Kbps, T-1 or equivalent, or higher rate)

128 Kbps - 384 Kbps POTs for ~~Telemedicine~~

6. Charges for telecommunications service:

Is there a monthly charge? No _____ Yes X
If yes, how much is the charge? 1 BR ISDN \$228/mo 128Kbps