

5 L V N 6 W U D W L I L F D W L R Q I R U + & &

< X M L Q + R V K L G D 0' 3 K'

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TeCH Annual Symposium, Oct 17, 2020

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.\RZD +DNNR .LULQ

ORUSK~~K~~HUDSHXWLFV

5RFKH

&RQVXOWDQF\

)HUULQJ 3KDUPDFHXWLFDOV

.\RZD +DNNR .LULQ

/DERUDWRU\ IRU \$GYDQFHG OHGLFLQH

2ZQHUVKLS

\$OHQ~~WHU~~HUDSHXWLFV

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:K\ +&& ULVN VWUDWLILFDWLRQ"

&OLQLFDO +&& ULVN LQGLFDWRUV

OROHFXODU +&& ULVN LQGLFDWRUV

%HQHILW ~~WUDMLNLHG~~ +&& ~~ost-effective?~~ L O O D Q



+ H W H U R J H Q H R X V + & & U U L V N N D F S U D R W L V H Q D

+ L J K U L V N



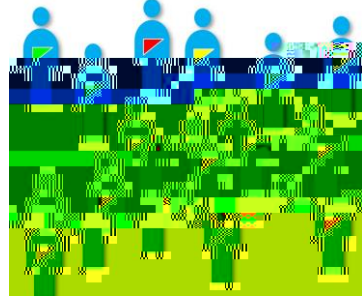
0 H G L X P U L V N



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3 2 Q W L J H V O O ' + & & V X U Y H L O O D Q F H



6 H P Q Q X D O + & & V X U Y

+ L J K U L V N 8 O W U D V R X Q G H Y H U \ P R Q W



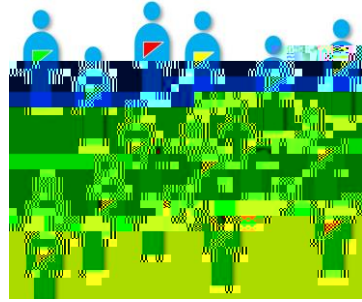
0 H G L X P U L V N



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5 L V W W U D W L I L H G + & & V X U Y H L O O D Q F H



‡+LJ&HUIRUPDQFH FR
LPDJLQJ ELRPDUNHU
‡0RUH IUHTXHQW H[DP

8 Q G M U Y H L O O D Q F H J K U L V N

/DWH +&& GLDJQRVLV

0 H G L X P U L V N

2 Y H W X U Y H L O O D Q F H

3K\VLFD0 SV\FKRORJLFD0
ILQDQFLDO KDUPV

/RZ U L V N



‡/RZSHUIRUPDQFH FK
‡/HVVIUHTXHQW H[DP

3 K \ V L F L D Q V D U H U H F E H D S W M I G Y W D L P R U M Q J

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&OLQLFDO +&& ULVN LQGLFDWRUV

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& O L Q L F D O + & & U L V N L Q G L F D W R U) , %

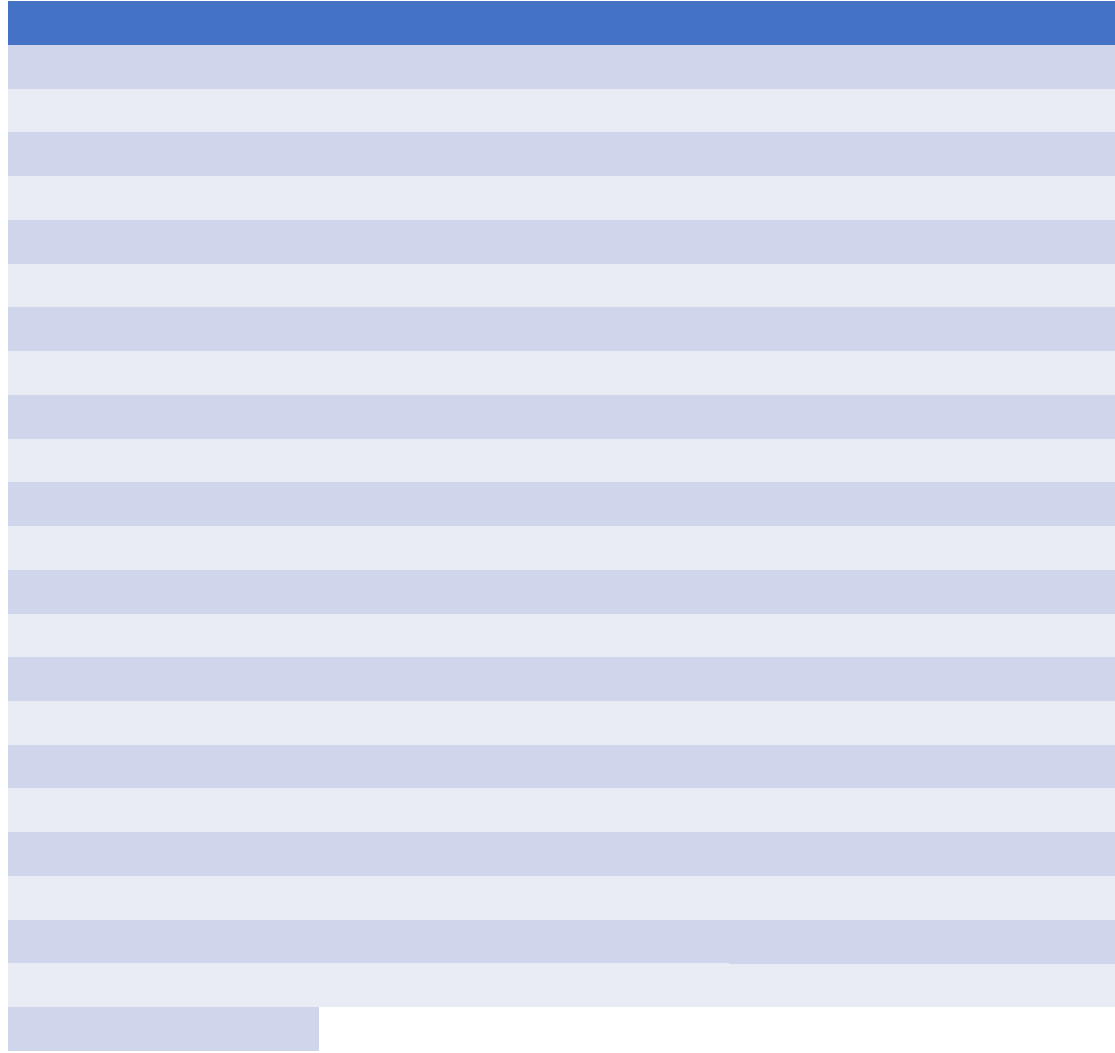
\$ Q Q X D O + & & L Q F L G H Q F H



< H D U V D I W H U + & 9 F X U H

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& O L Q L F D O + & & U L V N V F R U H V



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0 R O H F X O D U + & & U L V N L Q G L F D W R U V P D

\$ V S L U L Q

(6 L P R I E J M
0 D O H K I A T M e d)

/ L S R S K L O L F V W D

(6 L P A Q I n t e r n M e d)

) X M L Z I D e p t o l

0ROHF XODU + && ULVN LQGLFDWRUV

2PLFV WHFKQRORJ\	%LRPDUNHU	%LRVSHFLPHQV
*HUPOLQH '1\$ YDU	IFNL3 UV &x!x7 UV	%ORRG EXFFDO VZDE
	MICA UV &x!x7	%ORRG EXFFDO VZDE
	DEPDC5 UV 7x!x*	%ORRG EXFFDO VZDE
	TLL1 UV \$x!x7	%ORRG EXFFDO VZDE
	1p36.22 UV \$x!x*	%ORRG EXFFDO VZDE
	STAT4 UV *x!x7	%ORRG EXFFDO VZDE
	HLA DQB1/HLA DBA2 UV \$x!x*	%ORRG EXFFDO VZDE
	PNPLA3 , 0 UV &x!x*	%ORRG EXFFDO VZDE
	TM6SF2 (. UV &x!x7	%ORRG EXFFDO VZDE
	MBOAT7 UV &x!x7	%ORRG EXFFDO VZDE
	HSD17B13 UV 7\$	%ORRG EXFFDO VZDE
*HQH[SUHVVLRRQ VLBODVQBMWLF OLYHU VLJQDW)	/LYHU WLVVXH	
	+,5 JHQH VLJQDWXUH	/LYHU WLVVXH
	\$FWLYDWHG +6& JHQH VLJQD	/LYHU WLVVXH
	+6& VLJQDWXUH	/LYHU WLVVXH
	(FWRS LF O\PSKRLG VWUXFWX	/LYHU WLVVXH
	,PPXQHGLDWHG FDQFHU ILHO	/LYHU WLVVXH
&LUF XODWLQJ QXF	FI'1\$ PXWDWLRQ	3ODVPD
	FG/FRUH	3ODVPD

), % K L J K



2XWOLQH

:K\ +&& ULVN VWUDWLILFDWLRQ"

&OLQLFDO +&& ULVN LQGLFDWRUV

OROHFXODU +&& ULVN LQGLFDWRUV

%HQHILW **WIUDMLNLHG** + && **cost-effective?** L O O D Q

% H Q H I L W V R W W D W N I L H G + & & V X U Y H L O O

3 R W H Q W L D O V W W D W D W L H L V H G I + U L & N X U Y H

0 D J Q L W X G H R H F W L W H Q H V V "

' H V L U H G S H U I R U P D Q F H F R V W R I U L V N V

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, P D J L Q J 8 6 [
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\$ 0 5 , D E E U H Y L D W H G 0 5 ,

* R R V V I C @ Transl Gastro



) D F W R U V L Q I O X H Q I F L F Q V L F R I Q W V V

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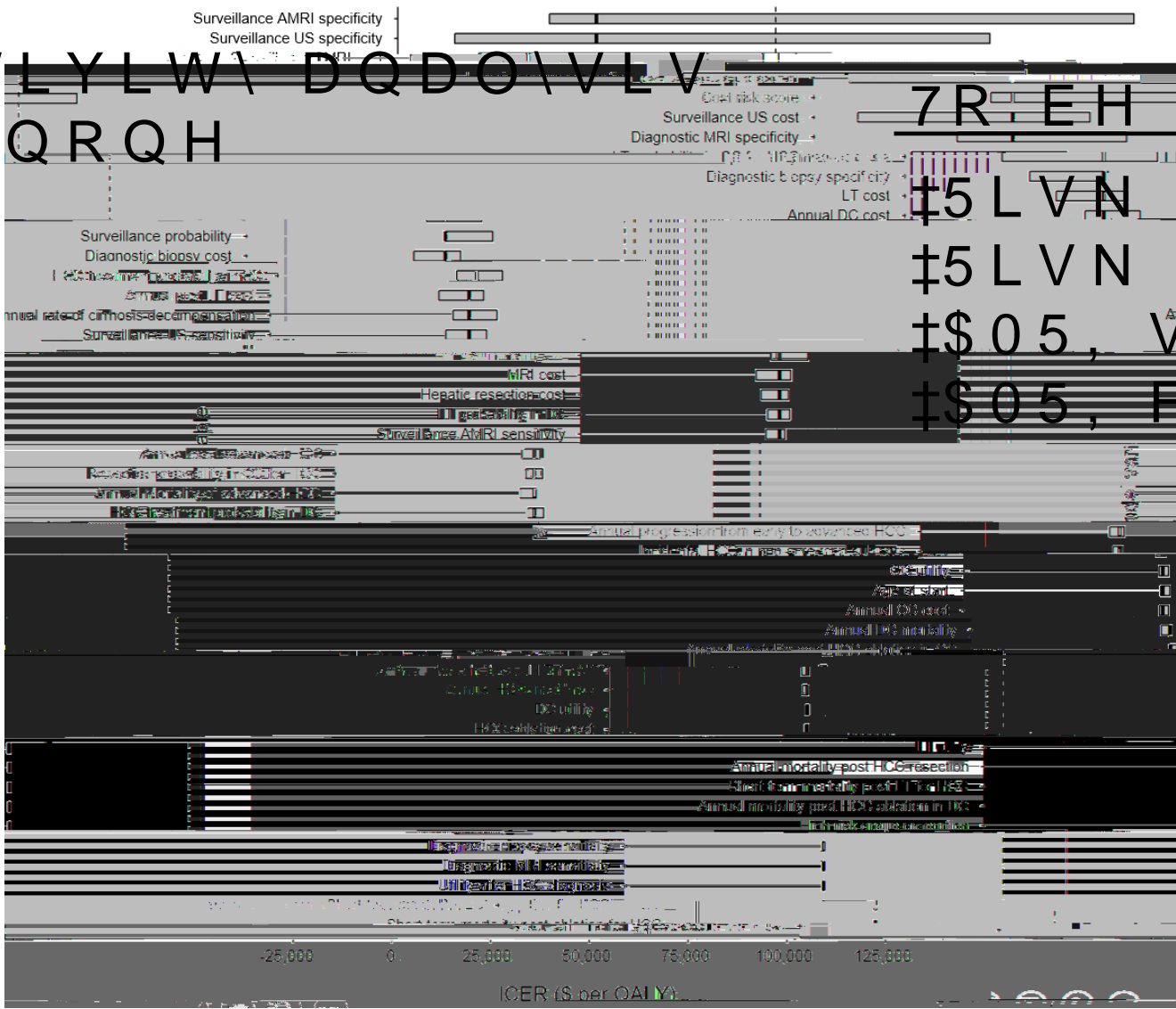
7 R E H F R I V W W L Y H

\$ 5 L V N U D W L R ! [

\$ 5 L V N D V V H V V P H Q W F R

\$ 0 5 , V S H F L I L F L W \ !

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* R R V V @ Transl Gastro

6XPPDU\

‡ 5LVN VWUDWLILFDWLRQ ZLOO HQDEOH UD

+ & & VXUYHLOODQFH

‡ &OLQLFDO DQG PROHFXODU + & & ULVN LQC

KLJUKLVN LQGLYLGXDOV

‡ 5LVN