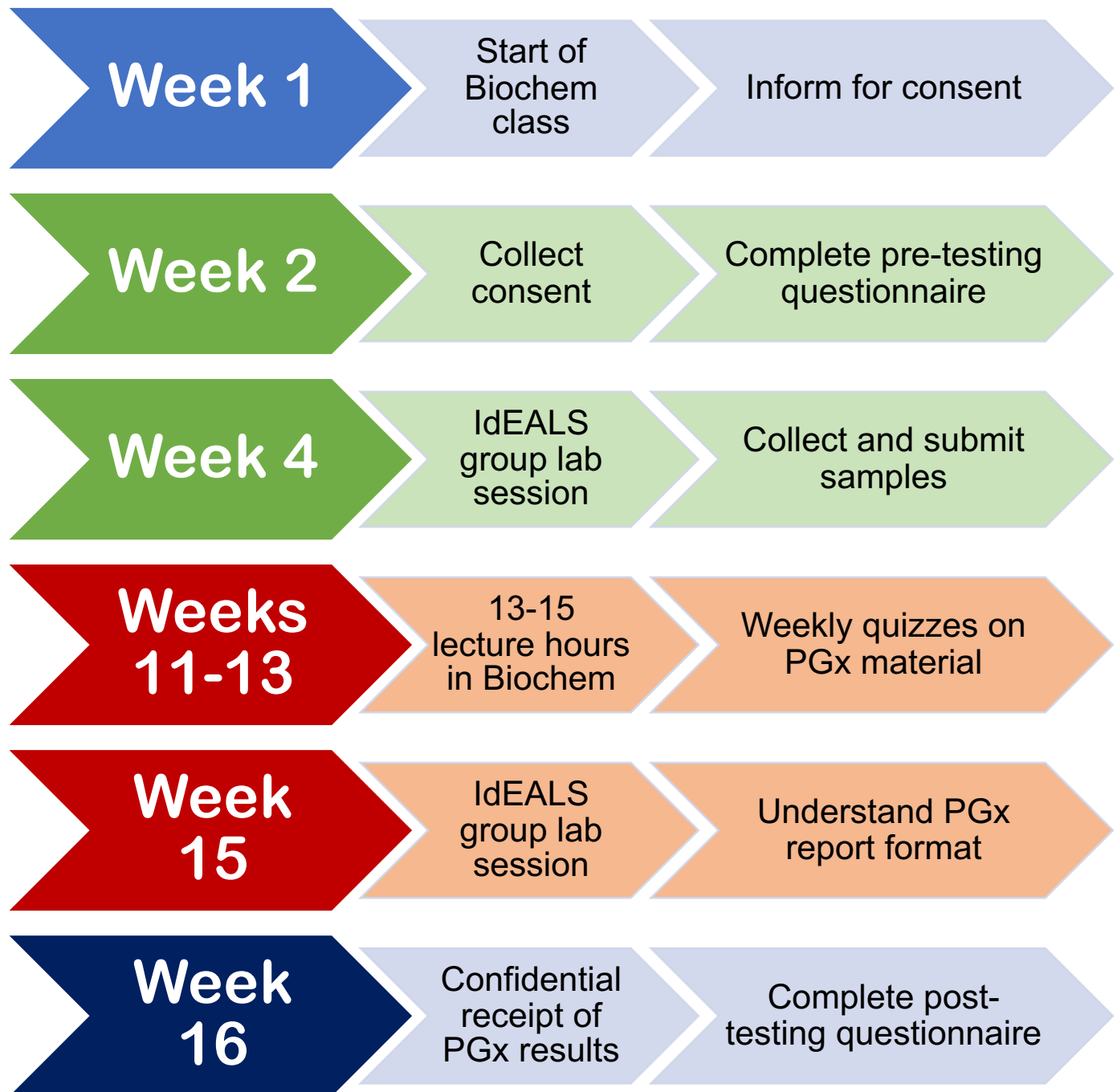


PRESENTER: **David L. Hurley**
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INTRODUCTION

ALL Pharmacy students should know
their PGx profile from the moment they
enter the pharmacy school curriculum.

METHODS



All procedures were approved by the East Tennessee State University/VA Campus IRB.

PGx tests used were:
Fall 2018: DNA2Rx test for 18 genes; Dr. Tim Wiltshire, UNC Eshelman School of Pharmacy; and
Fall 2019: RightMed® test for 24 genes; OneOme Co, Minneapolis, MN).
Tests were given FREE of charge to ALL consenting students.

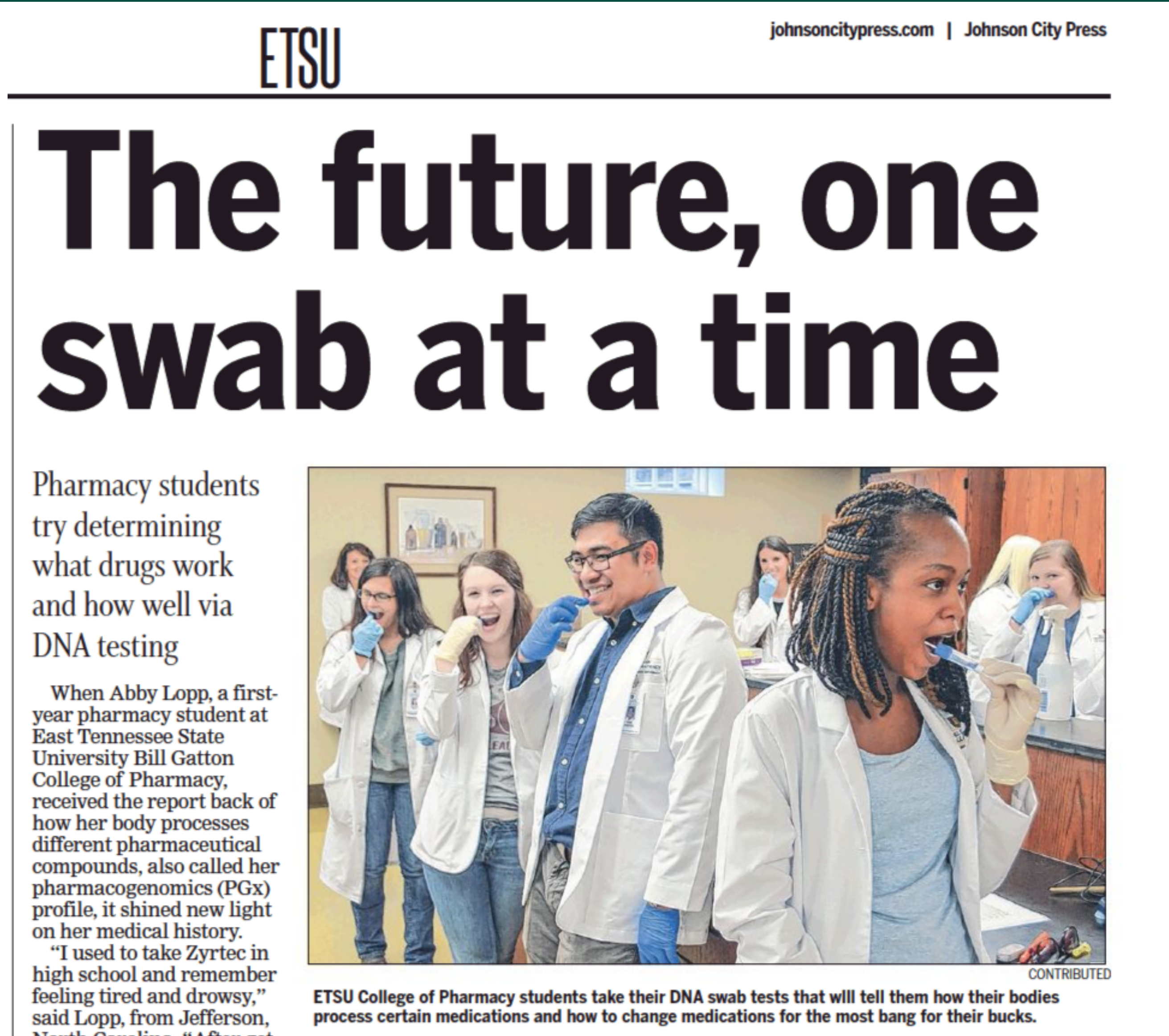
RESULTS



DISCUSSION

Early immersion provides a useful template for PGx education. Student interest for PGx in the clinical curriculum was raised. PGx testing can be a foundation for pharmacy education.

Individual PGx testing for ALL incoming PharmD students promotes PGx learning through the ENTIRE curriculum.



Take a picture to download the full paper

Personal PGx analysis for all first-year PharmD students: A foundation for guided implementation

DL Hurley, S Harirforoosh, V Palau, LV Rolfe*, T Ensley*‡, SE Lawson*, M Lockhart*,AK Lowe*‡, J Sondergaard*‡ and M Tucker*
• Student participant during APPE training;
‡ Student participant in the Concentration in Pharmacy Research Program;

Department of Pharmaceutical Sciences, Bill Gatton College of Pharmacy (BGCOP)

	F2018		F2019		ALL
Median Age (yrs.)	21		22		22
Age range	19 - 31		20 - 39		19 - 39
Ethnicity	#	%	#	%	%
White or Caucasian (not Hispanic or Latino)	72	85.7	49	69.0	79.1
Asian	6	7.1	9	12.7	9.8
Black or African American	2	2.4	9	12.7	7.2
Hispanic or Latino	2	2.4	4	5.6	3.9
American Indian or Alaska Native	1	1.2	0	0.0	0.7
Native Hawaiian or Pacific Islander	0	0.0	0	0.0	0.0
Other: Egyptian	1	1.2	0	0.0	0.7
TOTAL	84		71		

	F2018		F2019		Sum	
	#	%	#	%	#	%
Taking any medications?						
Yes	25	30.9	46	64.8	71	46.7
No	56	69.1	25	35.2	81	53.3
Medications ineffective?						
Yes	26	32.1	30	42.3	56	36.8
No	55	67.9	41	57.8	96	63.2
Medication side effects?						
Yes	54	66.7	38	53.5	92	60.5
No	27	33.3	33	46.5	60	39.5

Gene name	DNA 2 Rx test (UNC)	RightMed® test (OneOme)
CYP1A2	--	++
CYP2B6	++	++
CYP2C9	++	++
CYP2C19	++	++
CYP2C Cluster*	--	++
CYP2D6	++	++
CYP3A4	++	++
CYP3A5	++	++
CYP4F2	++	++
ABCB1	++	--
BCHE	++	--
COMT	--	++
DPYD	++	++
DRD2	--	++
G6PD	++	--
HLA-A	--	++
HLA-B	--	++
HTR2A	--	++
HTR2C	--	++
IFNL4	--	++
NAT2	++	--
NUDT15	++	++
OPRM1	--	++
RYR1	++	--
SLC6A4	--	++
SLCO1B1	++	++
TPMT	++	++
UGT1A1	++	++
VKORC1	++	++
Total genes	18	24

