

ISCC Innovative Approaches Working Group (IAWG) Update: Universal Module Development

ISCC Face-to-Face Meeting 1/14/16

IAWG Co-Chairs: Rich Haspel, Teri Manolio

Membership of Working Group

Member	Organization	Member	Organization
Rich Haspel	TRIG	Flora Lum	AAO
Anjene Addington	NIMH	Teri Manolio	NHGRI
Anna Berry	AMP	Francis McMahon	IPSG, NIMH
John Clarkson	ABO	Kiran Musunuru	AHA
Sean David	ABFM	John Nurnberger	IPSG
Michael Dougherty	ASHG	Benjamin Raby	ATS
Katrina Gwinn	NINDS	Kate Reed	Jackson Labs
Michael Hagen	ABFM	Timothy Stout	Baylor
Jennifer Hall	AHA	Gail H Vance	ACP
Emily Harris	NIDCR	Jeffrey Vance	U Miami
Ann Karty	Kansas Univ	Elizabeth Varga	NSGC
Cheryl Kassed	AACC	Kristen Weitzel	Univ Florida
Monica Kraft	ATS	Suzanne Ziemnik	ASCP
Melvin Limson	AMP	Your Name Here?	
Tina Lockwood	AACC		



Working Group Tasks

- Develop novel ways to teach genomics, building on the “Training Residents in Genomics (TRIG)” approach
- Create a "universal module" that utilizes the team-based learning and flipped classroom models adopted in TRIG
 - Target health care professionals who are not experts in genetics (e.g., cardiologists, neurologists)
 - Leverage the expertise of as many ISCC organizations as possible in adapting common core curriculum
- Develop other innovative methods proposed by the group



Working together!

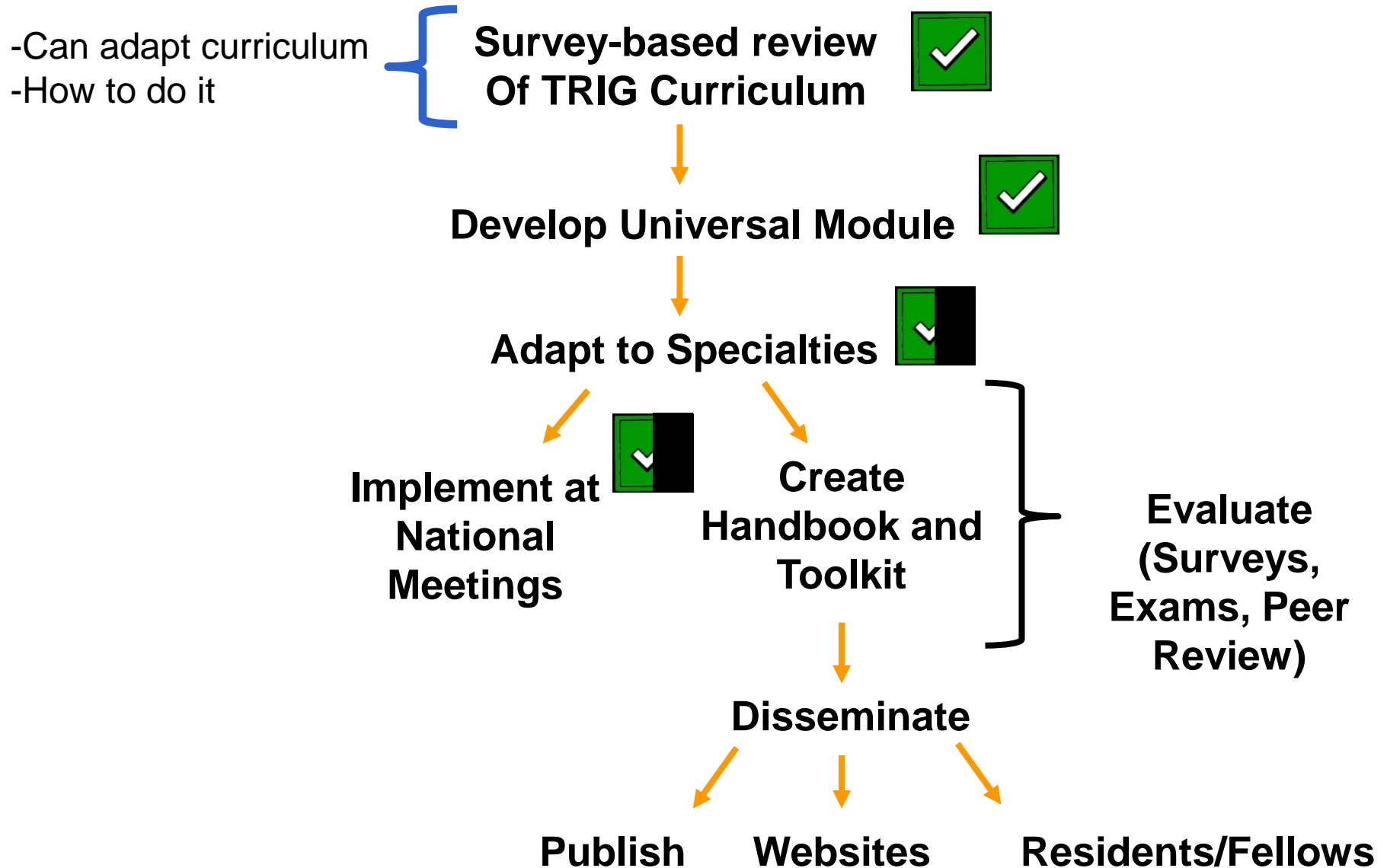


What is a “Universal Module?”

- Target: Health care professionals not experts in genetics but may have to deal with genetic issues.
- The needs of these individuals are likely the same regardless of specialty.
 - Each specialty to then "plug in" the relevant genes of interest.



A Structured Approach to a Universal Module



Modules are being adapted!

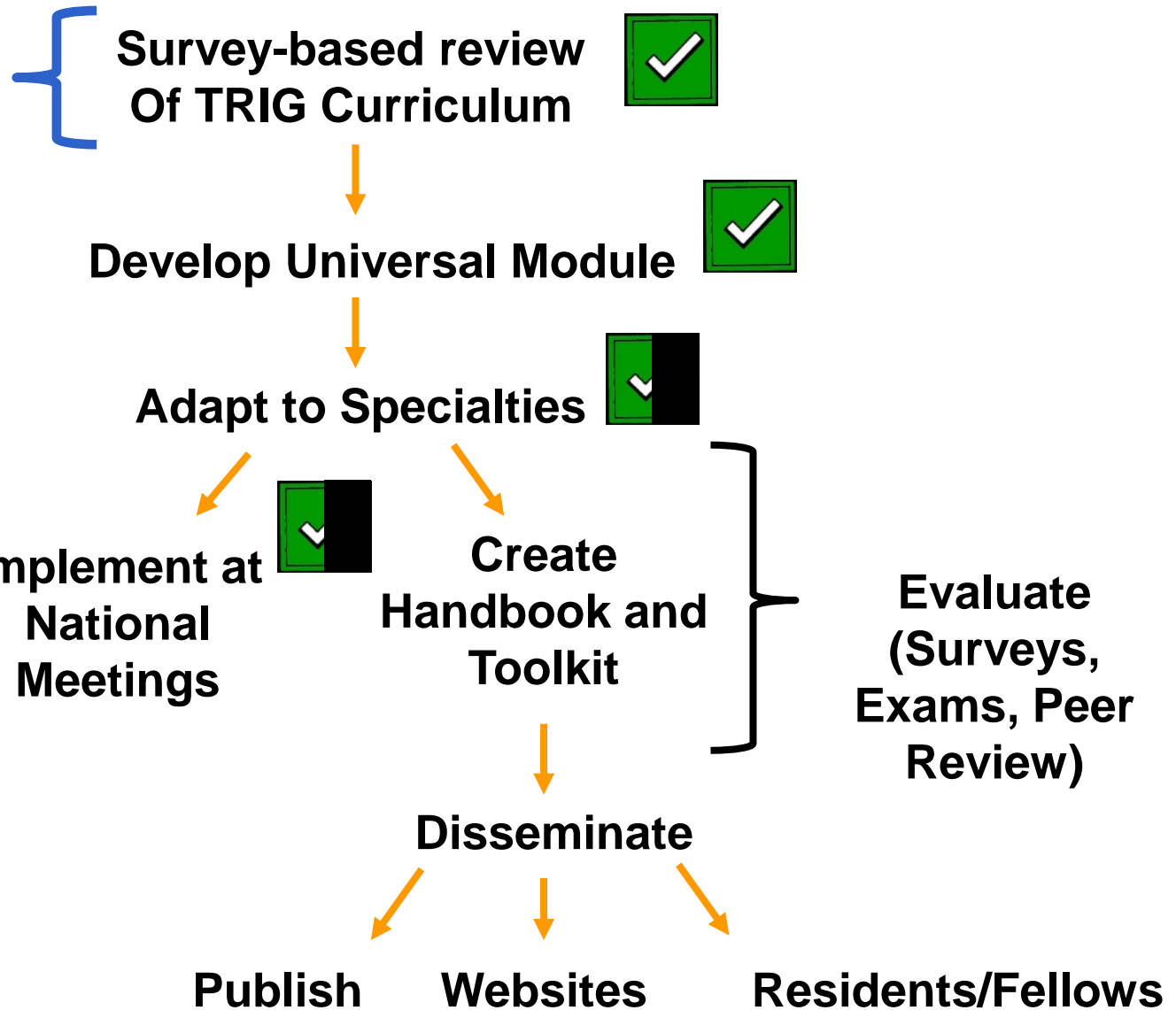
Specialty	Representative	Society/Meeting Status
Cardiology	Kiran Musunuru*	AHA/2015 Meeting Presentation/ 2016 Meeting Confirmed
Clinical Chemistry	Tina Lockwood	AACC/Meeting Confirmed
Family Medicine	Ann Karty Sean David	ISCC co-chair ABFM
Hematology	Liz Varga	NSGC
Neurology	Jeff Vance*	AAN/Meeting Confirmed
Ophthalmology	Veeral Shah, Tim Stout*	AAO/Developing Proposal
Psychiatry	John Nurnberger Francis McMahon	IPSG IPSG/NIMH

Note: Also ASHG Train-the-Trainer Session in 2015; re-applying for 2016

***Some funding obtained**
NHGRI Supplement (~\$100,000) to NCI (TRIG) R25; ASCP to help develop handbook and toolkit


A Structured Approach to a Universal Module

-Can adapt curriculum
-How to do it



Making progress...

- Next steps
 - Tweak current specialty-specific modules
 - Get additional member society participation
 - Create handbook/toolkit
 - Dissemination/Publish
- Barriers
 - Getting member society participation
 - More funding
 - Further dissemination
 - Online tools




Core Workshop Educational Methods

Flipped Classroom

The workshop utilizes the *flipped classroom* model, as illustrated below

The Flipped Classroom



Preparation Checklist

This section describes what you will need (materials, computer requirements, room set-up, etc.) to implement the workshop. Additional materials are available in the accompanying Toolkit.

Materials Needed

- Toolkit consisting of:
 - Pre-exercise preparation handouts for the residents. At least 24 hours before each exercise, the handout for that exercise should be given to residents to assist them in completing the out-of-class assignments. These handouts include the preparation questions and links to the online genomic tools that will be used during each exercise.

What we are asking from members:

- **Universal Module**
 - Adapt to your specialty (not too onerous)
 - A workshop/course at your annual meeting
- **Consider:**
 - Access to trainees/directors
 - Use of in-house trainee in-service exam

Some useful info

ASCP Pathologists Laboratory Professionals Students Board of Certification Search site

TRIG Training Residents In Genomics

Preparing Pathologists for a Leading Role in Genomics
[TRIG Resident Workshop Instructor Materials Now Available!](#)

ABOUT COURSE/WORKSHOPS RESOURCES EVALUATION LINKS/LITERATURE

Resources

Workshop Instructor Material
The TRIG Working Group Resident Genomic Pathology Workshop Instructor Handbook and Toolkit provides the materials and guidance needed to implement a structured and field-tested introductory resident genomic pathology curriculum. Released in 2014, the curriculum consists of approximately seven hours of instruction and uses a flipped classroom and team-based learning approach. The instructor leading this workshop does not need to be an expert in genomic pathology, however, a strong background in molecular pathology is recommended.

To obtain the materials free-of-charge, please fill out the form below.

Please note that these materials are not specifically endorsed by any of the cooperating organizations listed on the website.

Register to download the Workshop Instructor Handbook and Toolkit

Haspel RL, Ali AM, Huang GC.
Using a Team-Based Learning Approach at National Meetings to Teach Residents Genomic Pathology.

Journal of Graduate Medical Education
Online ahead of print (releases 2/16 issue)
Available at JGME website

<http://www.pathologylearning.org/trig/resources>

Future Workshops/Courses (Opportunity to observe)

- USCAP Annual Meeting: Seattle 3/12/2016
- CPD World Congress, San Diego 3/17/2016
- AAN Annual Meeting: Vancouver 4/20/16 (Jeff Vance)
- ACLPS Annual Meeting: Birmingham 6/2/2016
- AACC Annual Meeting: Philadelphia 8/3/2016 (Tina Lockwood)
- ASCP Annual Meeting Workshop: Las Vegas 10/2016
- CAP '16 Course: Las Vegas 10/2016
- AHA Annual Meeting: New Orleans 11/2016 (Kiran Musunuru)

