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UC San Diego Health Institute’s Efforts on Student Tracking: Lessons Learned

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Agenda

- UCSD Health Science Institute (UHSI)
- Student Tracking
  1. Multilevel Program
  2. Community College
  3. Post-Baccalaureate Program
- Lessons Learned
THE HEALTH CAREERS OPPORTUNITIES PROGRAM
SAN DIEGO REGIONAL CONSORTIUM (HCOP/SDRC)

School of Medicine

Hispanic Center of Excellence

Post-Baccalaureate

Conditional Acceptance Program
- Med School Prep
- Study skills & Test Prep
- Service Learning
- Counseling

Cognitive Strategies Retention Program
- Study skills
- Standardized Test Prep

Post-Baccalaureate Program
- First Time & Reapplicant
- Med School Prep
- Interview Skills
- Application Prep

University Undergraduate

UCSD Health Sciences Institute (UHSI)

Community College

UniversityLink Medical Science Program (ULMSP)
- Residential Health Science Transfer Guarantee Program
- Reading and Learning Skills
- Peer Counseling and Mentoring

Research Methodology Training Lab (RMTL)
- Training in Basic and Advanced Biology laboratory skills
- Test Prep courses
- Success skills in Sciences Placement in other UCSD labs

Middle and High School

Community Outreach Partnership Center (COPC)
Science Enrichment Program
- Intercessions and Academic Year
- In-class and After School
- Teacher Training
- Science Fair Participation

Serves
- High School Juniors and Seniors
- Community College Students
- UCSD and SDSU Undergraduates

University of California, San Diego School of Medicine
First Tracking Project: Main Questions

1. Of those students eligible to move on to the next academic level (e.g. graduate, enroll in a new institution for undergraduate or graduate training, transfer to a 4-year institution, etc.), a.k.a advancement eligible students, how many did?

2. Of those students who made the successful transition in question 1, how many were retained in the Biomedical and Behavioral Sciences?
Tracking Methods: During Program Participation

- Standard Information Form +
  - 3 people who do not live with students and will know where students are
  - Cell phone numbers
  - E-mail address
- Curriculum Vitae (CV) (updated every year)
- Discussion of tracking and its importance for program sustainability and improvement
  - Consent Form
Supplementary Strategies

- Social Media
  - Facebook Accounts
- E-mail
- Newsletters
- Online Surveys
- Hire student trackers
1. Multi-Level Program

- Research Methodology Training Lab (RMTL)
  - High School
  - Community College
  - Undergraduate
Advancement in the Academic Pipeline for High School Students Participating in the UC San Diego Research Methodology Training Lab (RMTL) Science Enrichment Program
Advancement in the Academic Pipeline for Community College Students Participating in the UC San Diego Research Methodology Training Lab (RMTL) Science Enrichment Program
Advancement in the Academic Pipeline for Undergraduate Students Participating in the UC San Diego Research Methodology Training Lab (RMTL) Science Enrichment Program
RMTL Tracking and Outcome Data
## Steps to Track High School Students

First group students by age or grade level

<table>
<thead>
<tr>
<th>Step</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Target students who were high school seniors the previous year</strong></td>
</tr>
<tr>
<td><strong>If grade level is unknown target students 18 and older</strong></td>
</tr>
<tr>
<td><strong>Check students in National Student Clearinghouse database</strong></td>
</tr>
<tr>
<td><strong>If record not found, follow-up with email, phone call or Facebook message as appropriate</strong></td>
</tr>
</tbody>
</table>
104 high school students participated in RMTL between 2001 and 2009

**Entered Community College or University**
- 9/104 students status unknown
- 15/104 students are currently enrolled in high school
- 80/104 students entered a community college or university

**University**
- 16/80 students status unknown
- 51/80 students are still enrolled in school and have not yet received a degree
- 13/80 students received a bachelors degree
  - 9 Biomedical Science Degrees
  - 1 Social Science Degree
  - 3 Other Degrees

**Professional School Graduates**
- 7/13 students status unknown
- 5/13 students enrolled in professional school and have not yet received a degree
  - 3 Masters Level
  - 1 Doctorate/Other Professional Level
  - 1 MD Level
- 1/13 student received a professional degree
  - 1 Masters Level
Steps to Track Community College Students

- Check National Student Clearinghouse database
- If record not found follow-up with a phone call, email or Facebook message
- Ask program coordinator/ someone from the program for help contacting students lost to follow-up
25 community college students participated in RMTL between 2001 and 2009

**University Transfers**

- 1/25 student withdrew from community college
- 2/25 students received an AA degree and did not transfer to a university
- 1/25 student is still enrolled in community college and has not yet transferred to a university
- **21/25 students transferred to a university**

**University Graduates**

- 1/21 student withdrew from a university without a degree
- 13/21 students are still enrolled in a university and have not yet received a degree
- **7/21 students received a bachelors degree**
  - 7 Biomedical Science Degrees

**Professional School Graduates**

- 2/7 students have not yet enrolled in professional school
- 5/7 students enrolled in professional school and have not yet received a degree
  - 3 Masters Level
  - 1 Doctorate/Other Professional Level
  - 1 MD Level
## Steps to Track Undergraduate Students

1. **Check National Student Clearinghouse database**
2. If record not found follow-up with a phone call, email or Facebook message
3. Ask program coordinator/ someone from the program for help contacting students lost to follow-up
132 undergraduate students participated in RMTL between 2001 and 2009

**University Graduates**

31/132 students status unknown
11/132 students are still enrolled in a university, but have not yet received a degree

**90/132 students received a bachelors degree**
- 72 Biomedical Science Degrees
- 12 Social Science Degrees
- 6 Other Degrees

**Professional School Graduates**

42/90 students status unknown
38/90 students are still enrolled in professional school and have not yet received a degree

**10/90 students received a professional degree**
- 11 Masters Level
- 15 Doctorate/Other Professional Level
- 12 MD Level

- 6 Masters Level
- 4 Doctorate/Other Professional Level
## Most Effective Tracking Methods for RMTL Students

<table>
<thead>
<tr>
<th>Student Status</th>
<th>Most Effective Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>High School Students</td>
<td>Phone Calls from the lab assistant</td>
</tr>
<tr>
<td>Community College and Undergraduate Students</td>
<td>NSCH and Phone Calls from the lab assistant</td>
</tr>
</tbody>
</table>
2. UniversityLink Medical Science Program (ULMSP)

Community College
Advancement in the Academic Pipeline for Community College Students Participating in the UC San Diego UniversityLink Medical Science Program (ULMSP)
Steps to Track ULMSP Students

- Check student in National Student Clearinghouse database
- Send messages through the ULMSP Facebook account
- Follow-up with email or phone call
100 students participated in the ULMSP program

University Transfers

12/100 students are still in Community College
3/100 students received an AA degree and did not transfer to a university
85/100 students transferred to a university

University Graduates

1/85 student withdrew from a university without a degree
1/85 lost to follow-up
24/85 students are still enrolled in a university and have not yet received a degree
59/85 students received a bachelors degree
   49 Biomedical Science Degrees
   8 Social Sciences
   2 Other discipline

Professional School Graduates

4/59 students are applying to graduate or professional school
24/59 students enrolled in professional school and have not yet received a degree
4/59 finished graduate or professional school
2001–2010 ULMSP PARTICIPANT OUTCOMES

100 Students participated in the ULMSP

12 students are still in community college  →  3 graduated with AA degree

85/100 (85%) Students transferred to University

24/85 still in University  →  1/85 dropped 1/85 student status unknown

59/85 Students obtained a bachelor’s degree

49/59 (83%) obtained a degree in the biomedical sciences
8/59 (14%) obtained a degree in the social sciences
2/59 (3%) other discipline

4 are applying to graduate or professional schools

27/59 (46%) Students are in professional or graduate school (Masters Degree, PhD, Dental, MD, PharmD)
4 finished graduate/professional school
Most Effective Tracking Methods for ULMSP Students

- National Student Clearinghouse Database
- Facebook
- Associate Director
3. Post-Baccalaureate

- Historical Data
  - 1989-present
Advancement in the Academic Pipeline for Students Participating in the UC San Diego Post-Baccalaureate Program
Steps to Track Post-Baccalaureate Students

First divide students into groups based on their status from the previous year.

- Applying to medical school
- Enrolled in school
- Graduated from medical school
270 students participated in the Post-Baccalaureate Program

**Medical School Matriculates**

- 20/270 not eligible to advance yet
- 12/270 still applying to medical school
- 4/270 withdrew from Post-Baccalaureate Program
- 4/270 medical school application rejected
- 1/270 status unknown

**198/270 students matriculated into medical school**

**Medical School Graduates**

- 37/198 still attending medical school
- 8/198 withdrew from medical school
- 1/198 accepted, but status unknown

**152/198 students completed medical school**
1989–2010 POST-BACCALAUREATE PROGRAM PARTICIPANT OUTCOMES

270 students participated in the Post-Baccalaureate Program

- 20 students not eligible to advance yet
- 12 students still applying to medical school
- 22 health profession 9 other fields
- 4 withdrew 5 status unknown

198/270 Students matriculated into medical school

- 37 still attending medical school
- 8 withdrew from medical school 1 status unknown

152/198 Students completed medical school

Top Five Specialties
29/152 Family Medicine
17/152 Internal Medicine
13/152 Obstetrics/Gynecology
12/152 Surgery
11/152 Pediatrics
# Most Effective Tracking Methods for Post-Baccalaureate Students

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<td>Applying to medical school</td>
<td>Phone Calls</td>
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<tr>
<td>Enrolled in school</td>
<td>NSCH</td>
</tr>
<tr>
<td>Graduated from medical school</td>
<td>Internet searches</td>
</tr>
</tbody>
</table>
Lessons Learned

- Systematic student tracking
  - Customize according to each program/grade level
  - Develop Protocols
  - Try New Approaches
  - Subscribe to National Databases (NSC)
  - Hire a student from each program to track peers
  - Program Staff
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Questions
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