

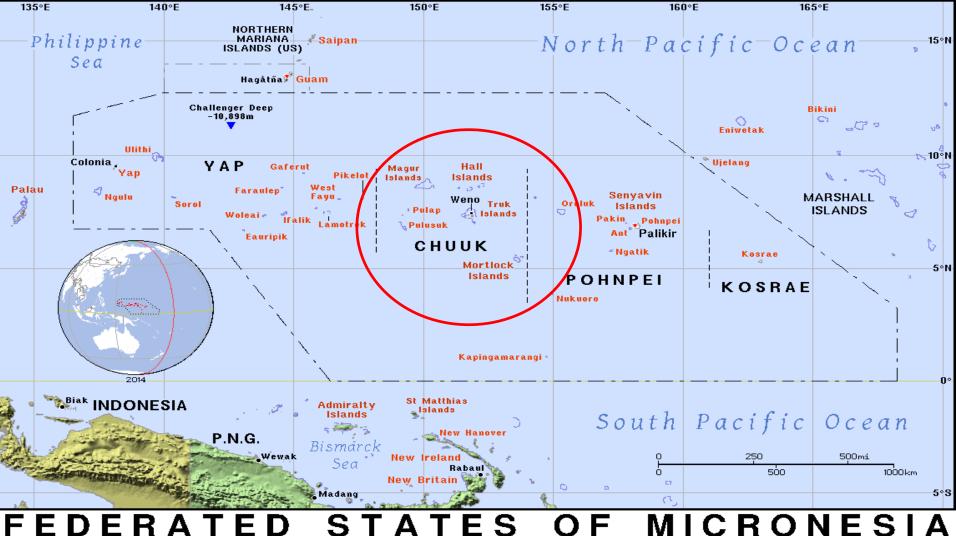
Use of IIS for Program Interventions – Chuuk, Federated States of Micronesia

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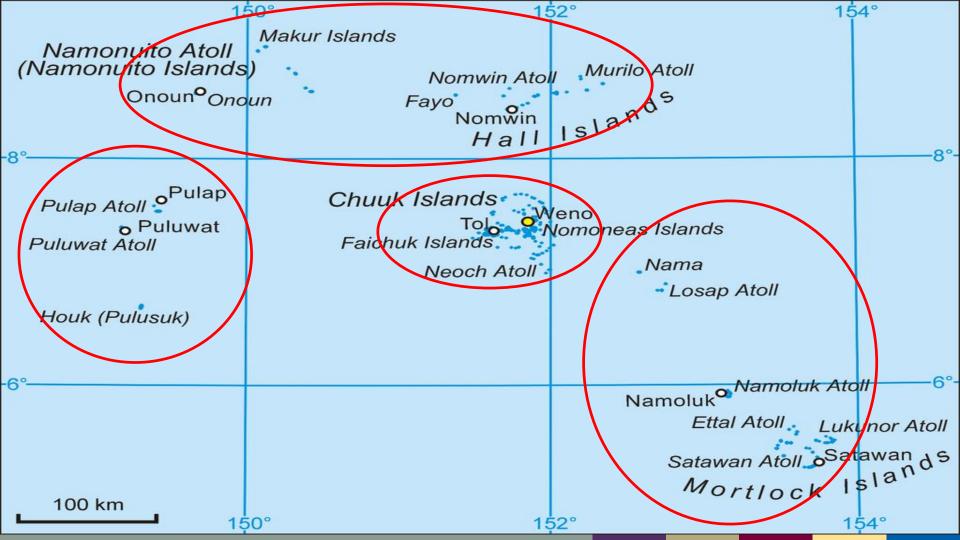
American Immunization Registry Association National Meeting

Presentation Outline

- Background
- Campaign Activities
- Campaign Evaluation
- Results
 - Vaccination outcomes
 - IIS data quality
- Lessons learned
- Summary



FEDERAT MICRONESIA

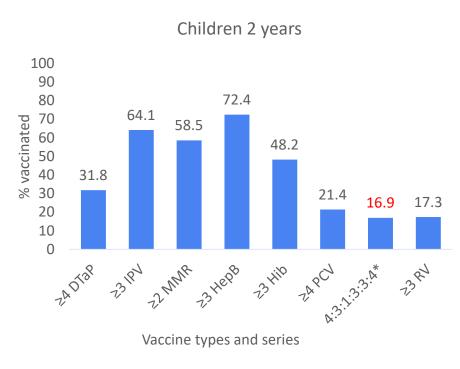


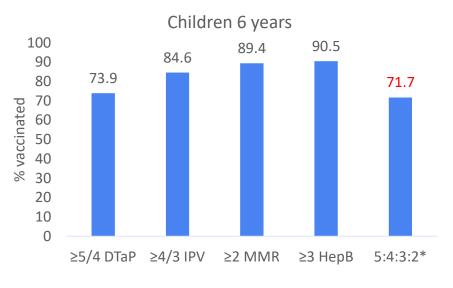






Vaccination Coverage Assessment, 2016





Vaccine types and series

*≥5/4DTaP, ≥4/3 IPV, ≥3HepB, ≥2MMR

^{*≥4}DTaP, ≥3 IPV, ≥1MMR, ≥3Hib, ≥3HepB, ≥4PCV

Vaccination Catch-up Campaign, 2017

Background of campaign

- FSM staff designed and conducted a state-wide catch-up vaccination campaign targeting children 2 months-6 years in August 2017
- CDC collaborated with FSM National Immunization Program and Chuuk State Immunization Program to develop monitoring and evaluation tools
- After campaign, CDC assessment team performed evaluation of campaign activities

Campaign objectives

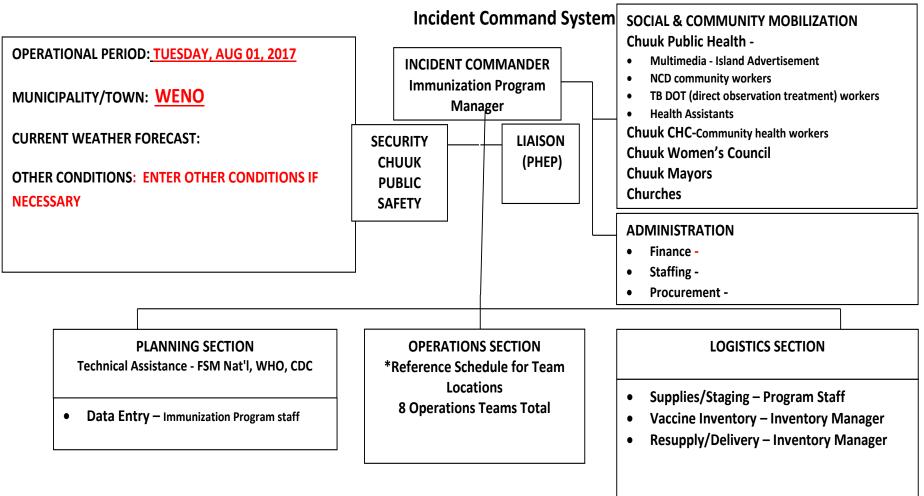
- Increase vaccination coverage
- Improve quality of the IIS

Campaign Activities

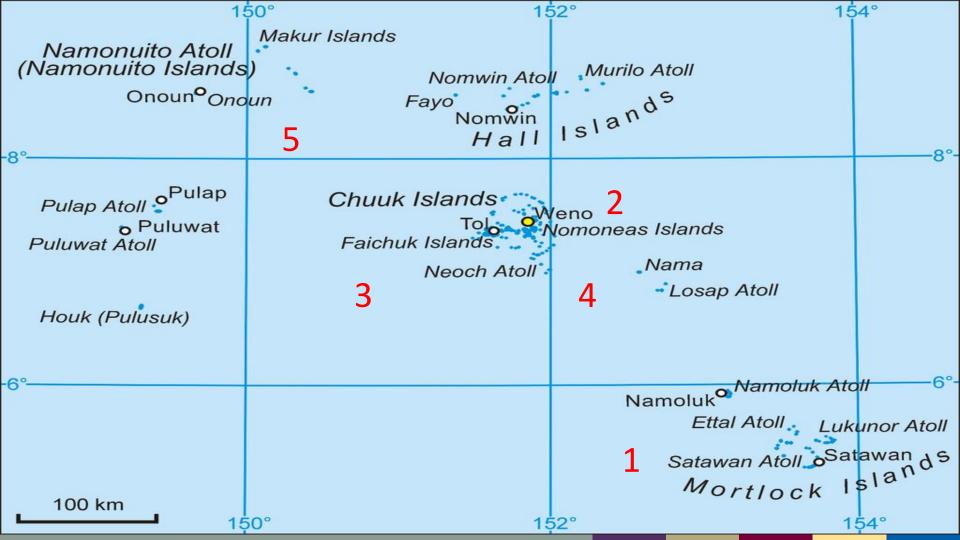
Campaign Activities

- Develop implementation plan
- Create Incident Command System (ICS)
- Train staff
- Conduct social mobilization activities
- Generate reminder/recall report from IIS
- Mobilize vaccination teams to each region of Chuuk State

CHUUK STATE CATCH-UP VACCINATION RESPONSE



Team numbers/Challenges	Number	НерВ.	Pediarix	Hib	PCV	Rota	MMR	DTaP	IPV
	of eligible								
	children:								
T1 – Track 9 out 13,	13	0	2	2	3	1	4	10	7
T2- community not aware, track all 12 kids., no one showed up at	12	0	3	6	6	2	8	6	5
fixed site, few children came to site but all were complete.									
T3- Bring kids to site 8, webiz not matching maintenance, need cell	12	0	0	4	7	0	7	11	5
refill will check with Kazari, 4 kids MOGE, unexpected funeral, 10									
kids complete but showed up, not on the list.									
T4- track 7, 13 kids MOGE (10 moved to US, 2 moved to Guam, 1	18	1	2	5	5	0	4	10	11
moved to Fefan, 1 moved to sapuk, 1 moved to Nepukos), social									
mobilization still a concern, need public Hlt IZ contacts for teams to									
call in, 1 new encounter,									
T5-3 new encounters will catch them on 8/5 Saturday in Iras PCI, no	23	0	1	3	5	0	6	12	12
tracking,									
T6- not enough drinking water, poor communication to chief, 7 kids	19	1	3	5	7	0	9	5	8
MOGE to USA, children on webiz list community are not aware of									
these kids, not enough calling card? Remove 2 gel ice from cold box									
due to low temp., no tracking									
T7-Frequent calling to PH for verification of children, no tracking	10	0	1	2	5	0	3	6	4
T8-?	18	1	3	9	14	0	7	6	3
T9-Assisted well, no challenges, help by 2 nurses,	11	0	5	4	7	5	3	5	5



Social Mobilization Activities





Vaccination Activities

- Parents bring their children to the mobile sites that were announced via radio and church announcements
- IIS generated reminder/recall lists helped identify children due for vaccination at these sites
- New encounters were tracked and administered doses



Vaccination Activities

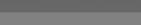
- Teams conducted mopup/tracking activities for children who were not able to come to the mobile clinic site
- Tracking activities also included identifying children who had moved off-island or were deceased

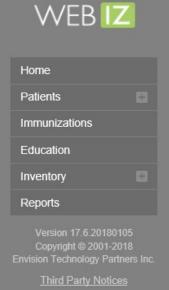


Campaign Evaluation

IIS Driven Campaign Evaluation

- IIS generated reports used to:
 - Assess implementation of campaign activities
 - Assess data cleaning in IIS
- Types of reports generated:
 - Patient detail with services
 - Patient roster
 - Dosage report





Patient Detail with Services

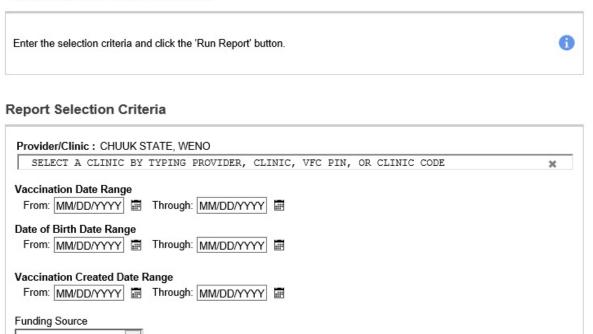
Note: hold the Ctrl key to select multiple items.

Output Type

PDF

EXCEL

EXTRACT - Delimiter:



Run Report

Cancel

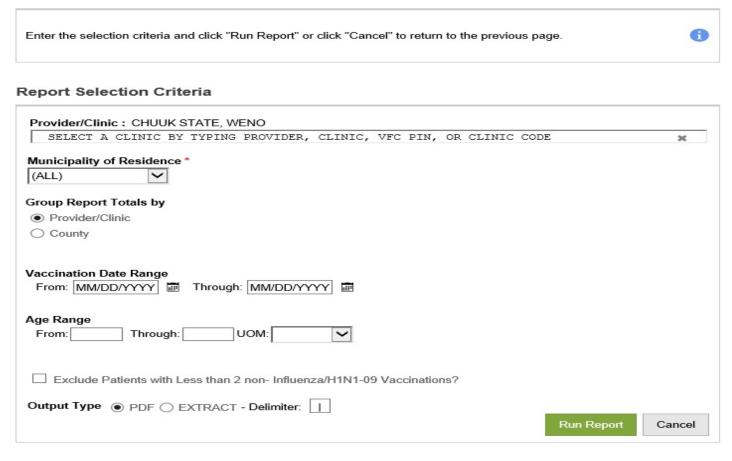


Home	
Patients	
Immunizations	
Education	
Inventory	
Reports	

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Third Party Notices

Patient Roster



Evaluation Measures

Campaign implementation

- Number of children vaccinated, by age
- Number of vaccine doses administered, by vaccine type
- Vaccination coverage before and after the campaign
- Up-to-date for all recommended vaccinations by age

Data cleaning in IIS

- Number of children made inactive in IIS
- Timeliness of data entry in IIS

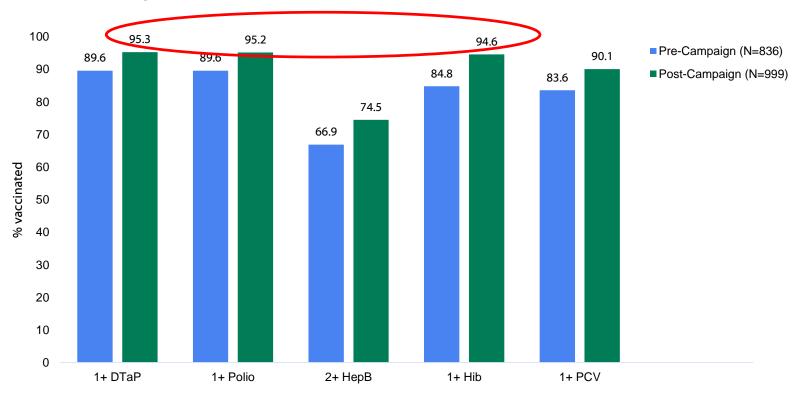
Number of Children Vaccinated, August 2017 (N=3,166)

Age	n	% of total
<1 year	527	16.6
1 year	643	20.3
2 years	526	16.6
3 years	378	11.9
4 years	582	18.4
5 years	324	10.2
6 years	186	5.9
Total	3,166	100

Vaccine Doses Administered During Campaign

Vaccine Type	# Vaccine Doses
DTaP	2,550
Polio	2,208
MMR	1,237
НерВ	1,335
Hib	1,351
PCV	1,387
RV	176

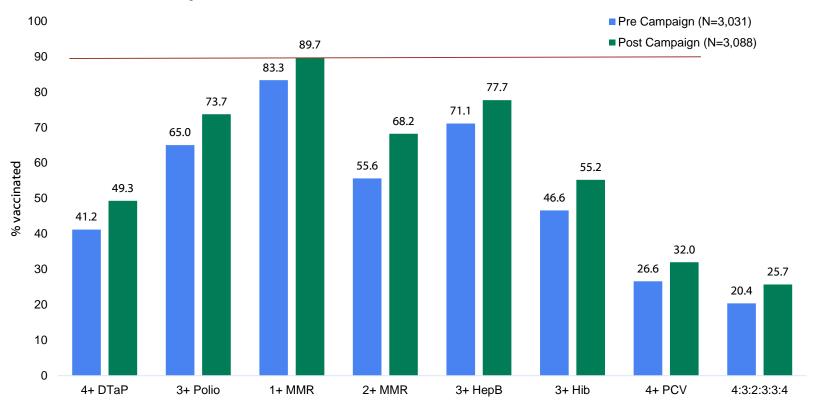
Children <1 year



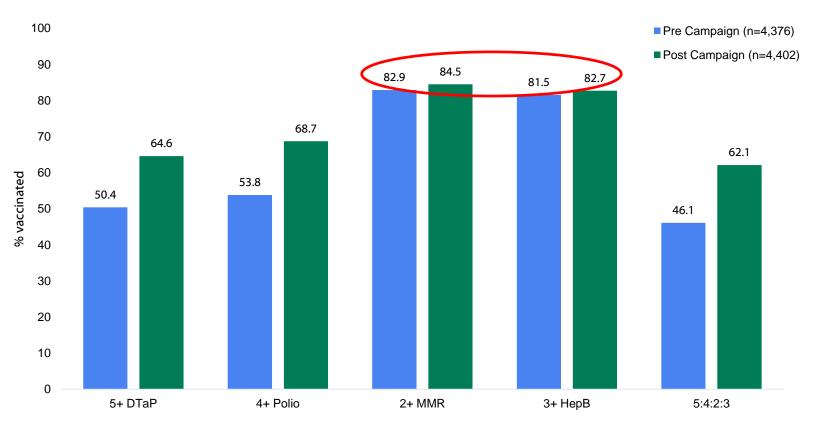
Children 12-18 months



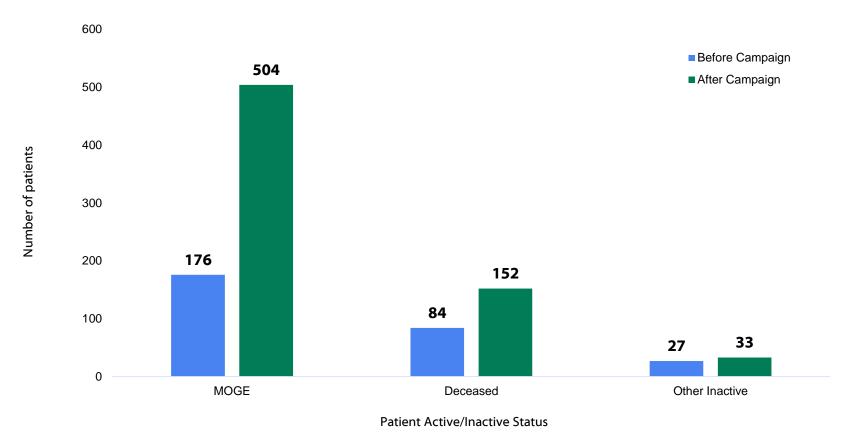
Children 19 months-3 years



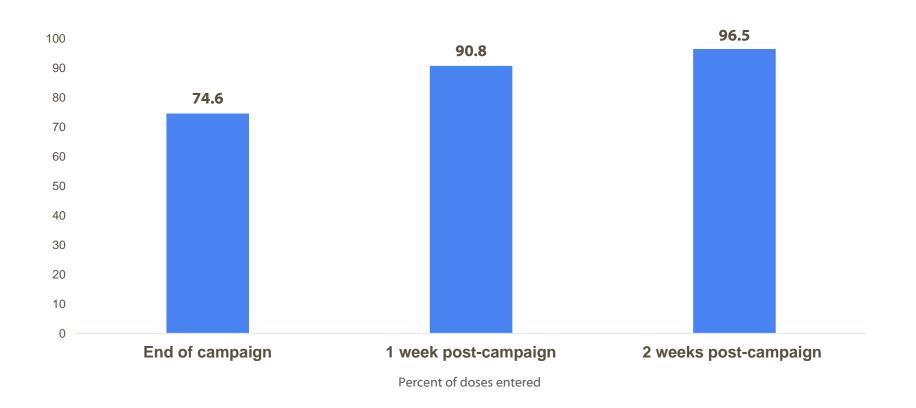
Children 4-6 years



Inactive Patients in the IIS - Before & After



Timeliness of Data Entry into IIS (N=7,779)



Lessons Learned

Lessons Learned

- Use of IIS in low resource and remote regions like Chuuk may improve vaccination coverage
- IIS can be used to implement and assess a vaccination catchup campaign
- IIS is valuable to different stakeholders in each program
 - FSM: able to conduct catch-up campaign
 - CDC: able to evaluate campaign and monitor coverage
- Using the IIS can help guide and improve other immunization program interventions and outcomes

Lessons Learned

- Conducting and evaluating programmatic interventions using
 IIS is dependent on quality and completeness of the system
- Accurate and reliable data must be present in IIS
- Ways to increase completeness and reliability of IIS
 - Timely data entry
 - Complete and accurate demographic information
 - Regular identification of duplicate records
 - Monitoring patient active/inactive status

Summary

Summary

- Overall, campaign activities, such as staff training, community engagement, and mobilizing vaccination teams, were successfully executed
 - 3,166 children 2 months-6 years were vaccinated during the campaign

 Vaccination coverage increased due to campaign activities and data cleaning in the IIS

Summary

- Campaign allowed staff to identify children who were off-island or deceased, and new children on-island
 - Increase in data quality improves IIS reliability
 - More complete IIS can be used for other programmatic evaluations

Acknowledgements

- CDC
 - Ashley Tippins
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Thank you! Questions?

For more information, contact CDC 1-800-CDC-INFO (232-4636) TTY: 1-888-232-6348 www.cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

