

BROOKHAVEN NATIONAL LABORATORY

401615

MEMORANDUM

DATE: July 3, 1979

TO:

FROM: Hugh S. Pratt, M.D.

SUBJECT: Expansion Plan - Marshall Islands
Program

Dr. Cronkite has asked me to prepare an outline of our current manpower requirements and then to expand that model for the possible addition of one or more of the following atolls.

- A. Wotja
- B. Likiep
- C. Kili - Bikini (ALL PEOPLE)
- D. Enewetok

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EXPANSION PLAN - MARSHALL ISLANDS PROGRAM

I. Manpower Requirements:

- A. Lab Procedures: 2 - 3 people totally dedicated to collecting and preparing samples. If all are Americans, 1 full-time translator is required.
- B. Four M.D.'s: Each must be able to function as a G.M.O.'s and be able to see 15 patients/day (30 minutes per exam). Each will require a translator/assistant. For female exams, a nurse-practitioner is needed as translator/assistant to assure follow-up and continuity of care.
- C. Triage/history: An RN or Medex (PA or MX) should be used in this new position. If an American is used, a good translator will be necessary. (This position could be used as an on-the-job teaching position to develop qualified Marshallese assistants.
- D. Patient Flow Co-ordinator/Administrator: Two - with as many Marshallese translators as required to assure good patient flow.

Recap:

<u>Site</u>	<u>Prof. Staff</u>	<u>Translators</u> [*]
Laboratory	2 - 3 techs.	+ 1
Physical Exams	4 MD 1 RN/NP	3 - 4
Triage/history	1 RN/PA	1
Pt. Flow CoOrd/Admin.	2	2 - 5
	<u>Total</u> 10 - 11	8 - 15

* Some translators in key positions should travel with the team; others should be picked up on each island. Those assisting with exams should receive training from the BNL medical team on procedures, etc. In all cases, the health aide should be included as part of the team.

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II. Rongelap - 148 miles from Kwajalein. Requires approximately 21 hours steaming time, at 7 knots. It requires 2 full days to set up and break down for the exams. There are about 250 people on the island which would require 16 man-days (15 exams/day/MD).

Recap: Rongelap
2 days - set up and break down
4 days - exams with 4 MD's

Total: 6 days

III. Utirik - 180 miles n. from Rongelap, this trip requires 26 hours steaming time. There are about 345 patients to be examined, which requires 23 man-days. Two days are required for set up and break down.

Recap: Utirik
2 days - set up and break down
6 days - exams with 4 MD's

Total: 8 days

IV. Wotje: 120 n. miles from Utirik; 155 n. miles from Kwaj. It requires 17 hours steaming time from Utirik and 22 hours from Kwaj. On Wotje Atoll, 4 islands are inhabited with from 400 to 600 people. All exams could be done on Wotje, provided adequate ferry transportation were available. However, it would be better to see the people from Wotje, Enejeltak and Kimejo (the latter are about 15 minutes from Wotje) on Wotje. This would account for about 2/3's of the population. The other third live on Wormej. There is adequate anchorage there, now used by the T.T. field trip ships, and the population is reported to be mainly older adults (up to 200 people). It will require 28-40 man-days to see all the people of Wotje. In addition, 4 days will be required for set up and break down.

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Recap: Wotje/Wormej - Wotje Atoll

4 days - set up and break down

8-10 days - exams with 4 MD's

Total: 12-14 days*

* In regard to all islands which have not been visited before, it should be remembered that operations will be slower because the people are not used to having us come. It will take a few visits before a routine can be established.

V. Likiep - 115 n. miles from Kwaj. Seventeen hours steaming time are required. Again, there are 400 to 600 people involved. They live on two islands in the atoll. Manhours required are 28 - 40. Adequate ferry support would be a necessity, since we are advised it would be best to perform all exams on Likiep and move people from the other inhabited island.

Recap: Likiep

2 days - set up and break down

8-10 days - exams with 4 MD's

Total: 10-12 days

VI. Bikini people - they now live on Kili, Jaluit, and Edjit. All three sites should be visited. It is 208 n. miles from Kwaj. to Jaluit and another 25 to Kili Island. Since there is no pier at Kili, it would be better to bring the people of Kili to Jaluit for ship-based examination. It takes about 30 hours to steam to Jaluit. There are 400 ± on Kili and Jaluit. Edjit is in the Majuro Atoll and exam facilities are currently available at the Majuro Hospital to see these people. The facilities require setting up on each visit, although they are land based. There are approximately 200 people at Edjit.


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There are no good figures currently available on the number of these people that are not Marshallese. They should be included in any plan designed to provide care for the Bikinians, themselves.

Recap: Bikini people at Kili, Jaluit and Edjit
4 days - set up and break down
4 days - exams with 4 MD's at Edjit
8 days - exams with 4 MD's at Kili/Jaluit
Total: 16 days

VII. Ujelang (Enewetak) - 360 n. miles from Kwaj. to Ujelang (51 hours) and 350 miles from Kwaj to Enewetak (50 hours). It is 125 n. miles from Ujelang to Enewetak (18 hours steaming time). During repatriation, these people will be on both atolls. There are about 400 people; if there are 200 on each atoll, 13 man days would be required on each site.

Recap: 4 days - set up and break down
8-10 days - exams with 4 MD's
Total: 12-14 days

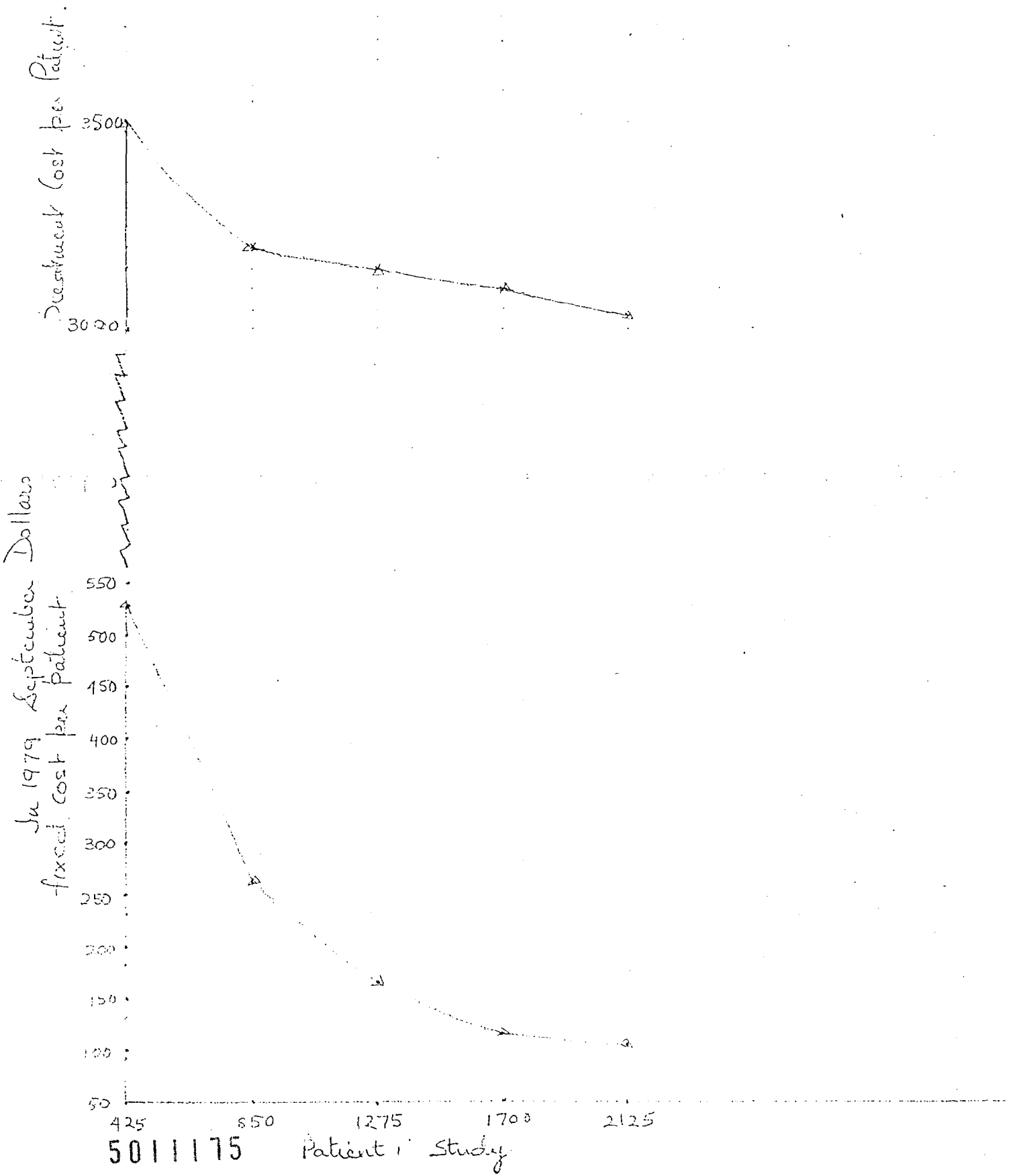
ROUGH ESTIMATE OF MARSHALL ISLAND

PATIENT COST ESCALATION

(AUGUST 31, 1972)

Patients	Fixed Cost per patient \$	Direct patient cost \$	Total Cost per patient \$	Total Fixed Cost \$	%	Total Direct Patient Costs \$	%	Grand Total \$
425	525.00	2,975.00	3,500.00	223,125.00	15	1,264,375.00	85	1,487,500.00
850	252.50	2,975.00	3,227.50	223,125.00	8	2,528,750.00	92	2,751,875.00
1,275	175.00	2,975.00	3,150.00	223,125.00	6	3,793,125.00	94	4,016,250.00
1,700	131.25	2,975.00	3,106.25	223,125.00	4	5,057,500.00	96	5,280,625.00
2,125	105.00	2,975.00	3,080.00	223,125.00	3	6,321,875.00	97	6,545,000.00





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Patient 1 Study