

FROM: SGDR

12 June 1973

SUBJECT: Semi-Annual Progress Reports of Investigations

TO: SGS

Re: D-1 (66): Serial Investigations of a Variety of Congenital Deformities of the Brain Case and Facial Skeleton, and the Response to Treatment.

1. Investigation progress is satisfactory and approximately 75% completed. We continue to monitor the progress of our patients with standard record taking techniques, so as to be in position to determine their growth and development status upon reaching adolescence. We continue to employ our usual treatment procedures as well as introducing new innovative techniques that will enhance the habilitative process. When our patients reach adolescence we will be able to determine the results of our treatment procedures.

2. 75%

3. None

4. None except as indicated in Dec 72 report.

5. Publications "Use of Acrylic Obturators to Protect Suture Lines in the Hard Palate", in conjunction with Dr. Bowers. Journal of Plastic and Reconstructive Surgery. January 1973. Pp 68-101. Vol 51, No. 1.

6. Presentations:

a. Spokane District Dental Society Annual Meeting 9 Jan 73 - "Recent Advances in Cleft Palate Treatment".

b. Presented full day lecture course to graduate students, faculty and study club members of the Graduate Department of Orthodontics of the Washington University School of Dentistry, St. Louis, MO. 15 Nov 1972. Topic - "Care and Treatment of the Cleft Palate Patient".

c. Presented 2 hour lecture on "Newer Trends in Neonatal Cleft Palate Treatment" to Orthodontists and Plastic Surgeons at the Annual Federation-Odontologica de Centro America y Panama meeting in Guatemala, Central America 2 March 1973.

d. Evaluated Cleft Palate Center and lectured to the residents and staff of the Hospital Nacional de Ninos of San Jose, Costa Rica. Critique sent in to hospital administration and government on how to improve service. Met with our ambassador in San Jose to help arrange for their personnel to visit our hospital. 3-7 March 1973.

e. Presented a three day course in conjunction with two other Orthodontists on "Orthodontic Management of Cleft Lip and Palate Deformity - Infancy to Adulthood", to Orthodontists, faculty and graduate

students of the Orthodontic Departments of Loma Linda University, University of the Pacific and University of California at Los Angeles. St. John's Hospital Cleft Palate Service, Los Angeles, California, 12-14 April 1973.

7. Approximately 25 man hours is expended in support of this project. 10 of 25 is off duty time. Approximately 600 hours for 6 months. AFSC Colonel 9866. Over 700 patients are registered at our Cranio-facial Anomaly Center.

Re: D-2 (59): Investigation into the Orofacial Changes Incidental to the Employment of the Milwaukee Brace for Treatment of Scoliosis.

1. This project is progressing satisfactory and is about 70% completed. With the changes in the fit around the orofacial structures of the Milwaukee Brace we no longer see the gross craniofacial skeletal changes in our patients. All of our patients are either fitted with the new throatpiece or the repositioned horizontal chin piece. Since the children have to wear the brace to maturity, our research project will have to run long enough so as to follow the first group of children from the time the fit of the brace was changed until they finish growth.

2. 70%

3. None

4. None

5. Paper still in progress.

6. a. Presented two hour lecture on Orofacial Changes Incidental to Milwaukee Brace treatment to the Association of Orthodontist of Centro America y Panama, Guatemala, 2 March 1973.

b. Presented two hour lecture on same subject as above to residents and staff of the Department of Orthopedic Surgery, Orthopedic Hospital Guatemala, 2 March 1973.

c. Presented 2 hour lecture on same subject as above to residents and staff of the Hospital Nacional de Ninos, San Jose, Costa Rica, 5 March 1973.

d. Presented 2 hour lecture on same subject as above to Spokane District Dental Society, 9 Jan 1973.

7. Approximately 4 hours per week - 96 hours for 6 months. AFSC 9866, Colonel. Approximately 25 of the 96 are off duty time.

Phase I -
Re: D-3 (71): To Investigate the Bony Changes in the Skull
Incidental to the Employment of a Fixed Rapid Maxillary
Expansion Device Attached to the Posterior Maxillary
Dentition.

Phase II -
Investigate the Type of Forces that can be Applied to the
Maxilla to Reposition it Forward in Relation to the
Cranial Base.

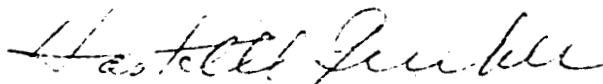
1,2,3. Progress is satisfactory but slow. Dr. McKenzie has just (May) received a Jung or Sledge Microtome to section undecalcified bone. We have sacrificed a normal monkey (of one group) that has had no rapid maxillary expansion in order to compare bone growth at suture sites to that of original monkey that had rapid maxillary expansion. When the report and slides of Monkey #2 are returned and evaluated, we shall commence our research project again.

4. None

5. None

6. Two-hour lecture on "Rapid Maxillary Expansion and Palate Splitting".
Association of Orthodontists of Centro America y Panama, Guatemala,
1 March 1973.

7. At this point approximately 2 hours/week - 48 hours for 6 months.
Mostly off duty time research reading. AFSC, 9866, Colonel.



HASKELL GRUBER, Colonel, USAF, DC
Principal Investigator
Chief, Division of Orthodontics