

KNOWLEDGE AND TECHNOLOGY A MEDICINE SERVICE

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DIAGNEXT.COM

FIRST BRAZILIAN TELEMEDICINE PROVIDER

AWARDS

- International HIMSS Latin America 2015
- ABIMED Award for Transformational Innovation 2015
- INOVA HEALTH ABIMO 2015
- 100 More Influential Health Care 2016: INNOVATION



ESTUDO DE CASO - AMAZONAS

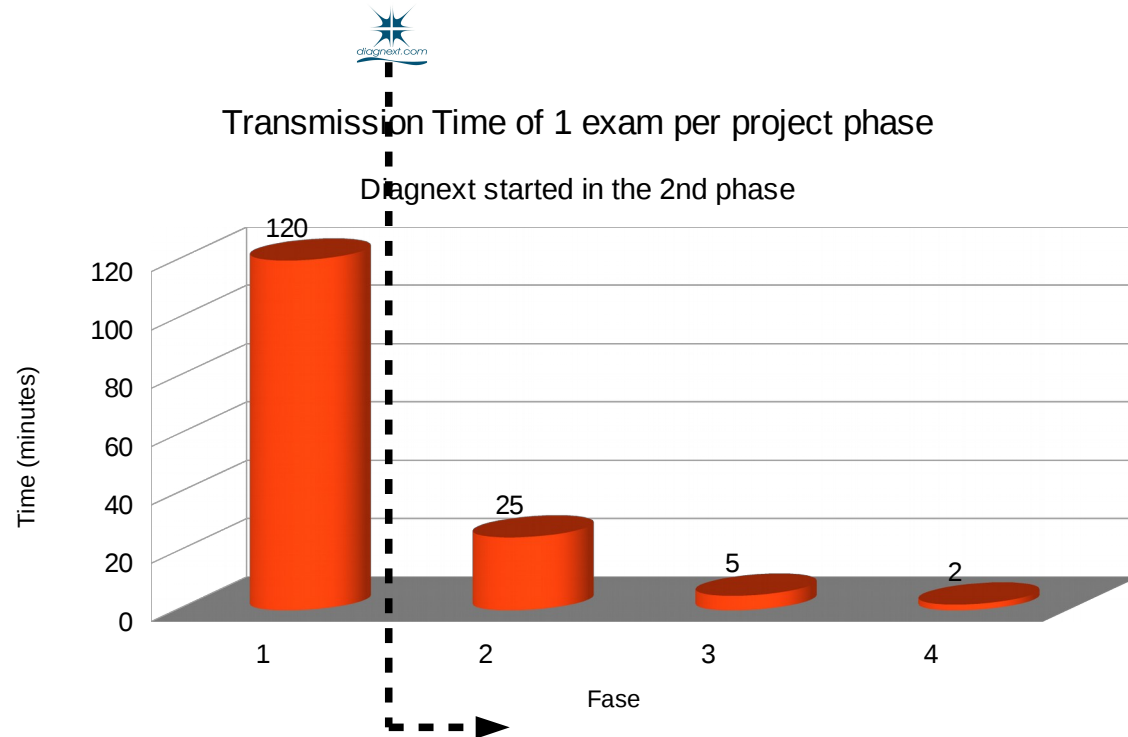
With the help of state-of-the-art technology, it allowed the transmission of diverse radiological images and in record time, the **State of Amazonas** overcame the geographical barriers of the region in more than 50 Units, and expanded the mammography and x-ray to the interior of the State.

In the year 2015, more than **100,000 mammography and x-ray exams** were transmitted from places at all the forest to the capital;

In tests conducted in **July / 2016**, it was shown that the transmission time proved to be **22 times more efficient than the market standard**, transmitting tests in **less than 2 minutes** to the Francisca Mendes University Hospital in Manaus City.



Evolução de tempo de transmissão de exames....



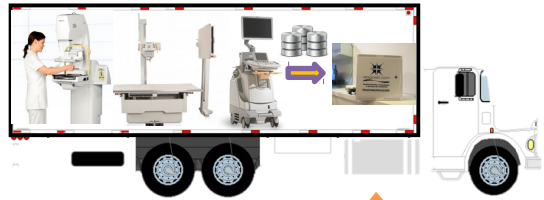
2014: Start of the participation of Diagnext.com in the project!

Fase	Year	Time (min)	Exams / day	Diagnext.com Annual Development
1	< 2013	120	12	
2	2014	25	57	75% reduction to the previous time.
3	2015	5	288	Reduction of the time in 75% from previous again (+ of 95% to the initial one).
4	2016	2	720	Transmission of several new exams, and reduction in 60% of the time to the previous (+ 98% to the initial).

Telemedicine in Amazonas

61 +
HOSPITALS
01 ou +
MEDICAL REPORT CENTERS
100,000 ou +
(EXMS / YEAR)
2 min
AVERAGE TRANSMISSION TIME

Mobile Health Units



Rosa Fabiano Falabella Hospital

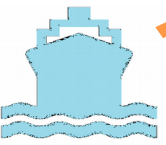
Celina Vilacrez Ruiz Maternity Hospital



Tabatinga Army Garrison Hospital



Hospital Care Ship Oswaldo Cruz



Boca do Acre Maternity Hospital



Medical Report Centers

All the Radiology: Mammography, X-ray, among others!

Pathology

Pneumology

Neurology

Cardiology

Dermatology



Telemedicine in Amazonas

Transmission of **exams and any kind of data** between **ALL** connected hospitals **bidirectional, simultaneous and without limits!**

Possibility of sending real exams **directly** to the diverse Medicals Report Centers **simultaneously**, in case of need and displacement of the patient.

The exams can be sent to several Diagnostic and Reporting Centers directly, without interventions and automatically.

Monitoring, Management and administration of remote equipment, providing for maintenance, operation and agility of technology solutions for hospitals.



Storage in different places of data to be able, in case of loss of communication, to enable the dynamic and automatic sending of **all the tests performed**. It allows, in the return of the link, the images are sent quickly to the Medical Report Centers.

Immediate and instantaneous referral of the examination, allowing the hospital to receive a prior opinion of the exams performed, to release the patients, as soon as possible.

Network Operational Center, that do automatic reports, likes amount of sent exams, list of patients, cumulative by type of exam, destinations, etc.

Case studies

	Mobile Units from São Paulo State	Amazonas State Hospitals
Healthcare Units	4 Mobile Units	61 Hospitals
Radiologic Equipments	CRs (mammography)	CRs (mammography and X-Rays)
Communication method	3 x chips of mobile phone (diferent operators)	1 satelite connection (128 – 256 kbps, unstable, Ku)
Transmissions end	DICOM imagens insert in a PACS	
Results: Quantity / time	50-60 exms/day	100,000 exms/year (42,000 mammo, 58,000 x-rays)
Results: Average transmission time	5 minutes; Maximum 10 minutes	2 - 5 minutes; Maximum 10 minutes
Final Conclusion	<i>The equipment finishes transmitting shortly, before the end of the next mammography exam.</i>	<i>The equipment terminates the transmission quickly, so that the patient does not return to his place of origin (indigenous tribes, riverside, etc.) without evaluation of the potential health risk.</i>



Conclusion

- The proposed communication system is able to efficiently ***manage, storage*** - more than 93%, and ***transmit*** a large volume of exams in the shortest possible time - 96% more efficient;
- Our technology ***works with up to 8 diferent communication channels***, can provide internet access and transmit DICOM images, ***together and simultaneously***;
- Capable of ***storing a large volume of exams*** if there aren't currently communication channels capable or available to transmit all the data;
- ***All the solution can be customized following the necessity of healthcare unit and existed communication channels.***



HOW LONG DOES IT TAKE A DIAGNOSIS?

HOSPITAL



REPORT CENTER



HOW LONG DO YOU TAKE WITH DIAGNEX?

HOSPITAL



REPORT CENTER



MORE FAST



MORE CHEAPER



LESS STORAGE



Any Doubt?
Thanks for your attention!
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