

Project title: Improve Ultrasound Service in Scheer Memorial Adventist Hospital

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1. REASON FOR ACTION

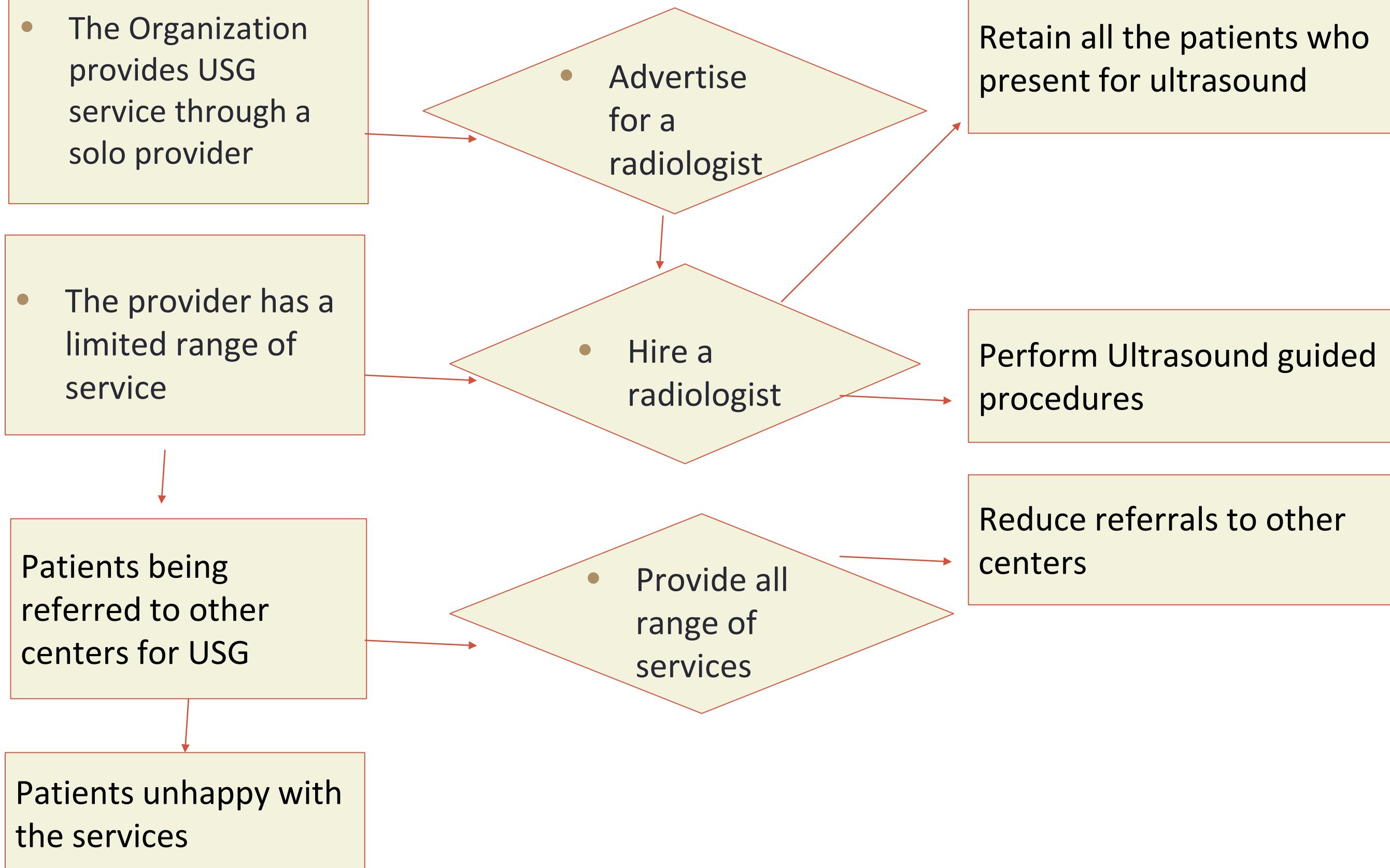
Problem statement

1. Too many patients waiting for ultrasound(USG)
2. Anomaly and special scans referred to other centers
3. Unable to perform Ultrasound guided interventions
4. Present sonologist has limited scope of work
5. Single ultrasound machine

- Overcrowding of ultrasound waiting area
- Delay in care of the patients as they leave the hospital and come back
- Increased financial burden on the patients with more cost in private hospitals and travel cost as they are referred.

Time frame
Start time : 2017
End time : 2021

2. INITIAL STATE



3. TARGET STATE

Year 1 - minimize referrals to other centers

Year 2- All anomaly scans and specialty scans done at our center

Year 5- full time USG service, specialty scans, anomaly scans at all times including holidays and off hours

4. GAP ANALYSIS

1. Patients waiting too long in queue for ultrasound service
2. Patients tend to not return to the hospital once referred to other centers
3. Patients are scheduled for another day for USG
4. Special scans like breast, thyroid and venous doppler are not able to be performed at the hospital.

5. SOLUTION APPROACH

Hire a radiologist initially part time then full time

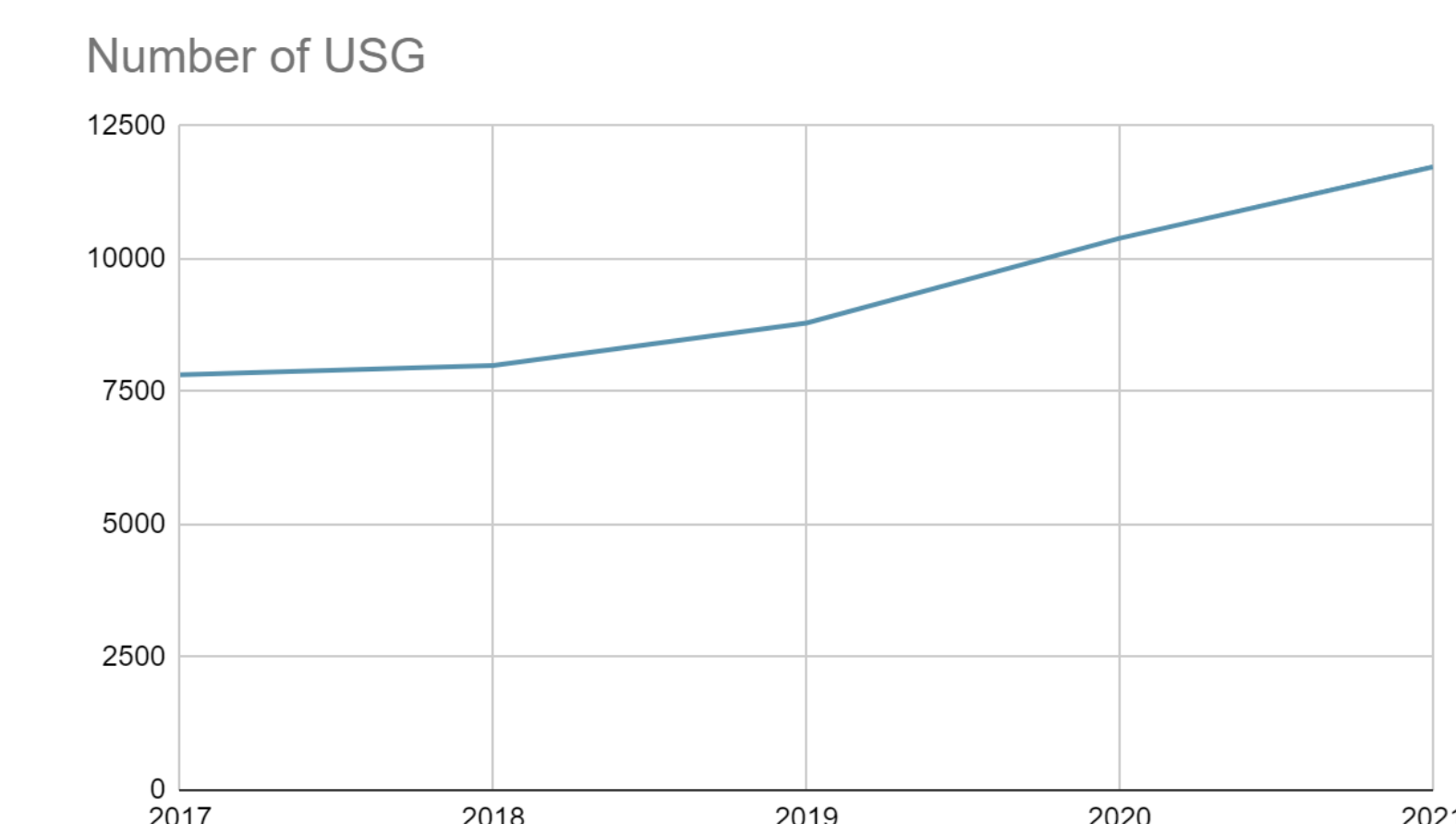
Schedule time in such a manner that the new doctors covers for the busiest days of the week and is available when the sonologist is on leave

Add another ultrasound machine and identify a new bigger space as USG room

7. COMPLETION PLANS

Action	Who	When
1. Hire a radiologist	HR	End of 2017
2. Schedule special time for part time radiologist	Clinic in-charge	Once available 2019
3. Advertise the new and additional services in USG	Office assistant	2019
4. Add the number of hours of service by the new radiologist	HR/ Clinic-incharge	2021

8. CONFIRMED STATE



The number of ultrasound done per year at our center increased from **7,816** in 2017 to **11,731** in 2021 (despite the impact of Covid 19).

6. RAPID EXPERIMENTATION



9. INSIGHT

-The institution is now able to retain many patients at our own hospital
-Special scans are done at our center

The space should have been expanded before hiring a new radiologist as the waiting area of USG is crowded at present

The overall ultrasound service has improved in the institution with full range and timely service.