2016 Earthquake in central Italy

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Central Italy, one of the main places of history in the World.
4 regions in 20 km: the four corners
EQ 2016 summary

• 24th August 2016 3.36 am an EQ about 6.0 Richter hits central part of Italy in Abruzzo, Lazio, Marche and Umbria regions. Thousands of people are interested in this event with 300 victims and about 500 wounded people and a lot of damages all over the territories. In Medieval towns and villages a lot of houses crashed down. A big damage also for Italian history because of churches and old buildings crash down.

• 26 and 30th October 2016 and 18th January 2017 new strong EQs happened in the same territories especially on the border between Marche Lazio and Umbria (6.5 Richter). Luckily a big but not too much wave about 30 minutes before the bigger one permitted to a lot of people to be out of home and so no victims are in these EQs. Also if we had a lot of damages of houses churches and roads. And a lot of problems because of the destruction of houses damaged in August's EQ. Especially in Lazio and Marche while in Umbria the built were damaged but not crash down because of builited with EQ prevention after earthquake of 1996.

• A lot of shockwaves every day for 5 months
HELPED PEOPLE

![Bar chart showing population assisted over time in Central Italy]

**POPOLAZIONE ASSISTITA**

- **24/08/16**: 4,807
- **29/10/16**: 1,136
- **30/10/16**: 31,763
- **17/01/17**: 10,076
- **18/01/17**: 15,107
- **31/03/17**: 11,057

*: i valori si riferiscono alle giornate immediatamente successive alla data dell’evento

TERREMOTO CENTRO ITALIA - FONTE: DIPARTIMENTO DELLA PROTEZIONE CIVILE
task force for relief

FORZE IN CAMPO

6.806  2.617  6.916  4.292  7.482  3.423
24.08.16*  28.10.16  30.10.16*  17.01.17  18.01.17*  31.03.17

*: i valori si riferiscono alle giornate immediatamente successive alla data dell’evento

TERREMOTO CENTRO ITALIA - FONTE: DIPARTIMENTO DELLA PROTEZIONE CIVILE

EQ 2016 in Central Italy
SIMFER and Italian Rehabilitation were immediately on the crater of EQ

• The first EQ happened 24 August 2017 at 3:36 am.

• The medical doctors in rehabilitation Pestelli and Agostini (member of directory of Simfer) did the first visit to earthquake zone in the days 28 and 29 August 2016. In 28 August they met in Ascoli Piceno the main director of public health service of Marche's part of EQ and colleagues of public and private service speaking about the way to organize rehabilitation. In a few days the director of rehabilitation department of Ascoli Piceno territories, in which the EQ happened, started the service for people suffering for EQ and with disability before the EQ, directly in the tents' camps and in the hotels where the people were brought because of destruction of their houses, and started to do both rehabilitation for disabled people before the EQ and also APA for elder people. He was in contact with me every day to organize actions.
The beginning and the problems of organisation

• In Amatrice we took contact with civil protection an Malteser ( order of Malta) , but it was very difficult to contact local workers in rehabilitation for the big problems about EQ and the difficulties to have a road to bring aids to the villages. We had phone contacts with the director of rehabilitation department for future contacts to be operative.

• After some days, 12 sept, i came back to Amatrice where i met municipality, civil protection and some local rehabilitation and social workers and the main priest of the village for starting ideas for future actions when the situation will permit us to do a good job. In the while local rehabilitation service started to open an out patients service in Antrodoco about 25 km from Amatrice and to give home care, where houses were on, to elder and disabled people. The situation in Amatrice was very very hard for destruction of a lot of houses and for the crash of all the main roads to arrive in the village.
Tents in Arquata del Tronto (Marche)
Cascia, SIMFER and SIRN, ISPRM

• 11 september i was in Cascia where ,with dott.Zampolini ,we met the mayor and local health administration to program actions for the needs of people with disabilities in the crater of EQ.In the same days we sent to all authorities the project of SIMFER and Sirn for the organisation of rehabilitation in the EQ zones ,all the zones, of central italy EQ,in according with guidlines of WHO and ISPRM.We though to do in Cascia rehabilitation Hospital the center of actions about inpatients rehabilitation in all the EQ.Cascia is central to the places of EQ.
But a big problem happened: a new big EQ after 2 months

- while we was working for help local teams of rehabilitation to do the best of the possible... in the days 26 and 30 of october a new big EQ, 6.5 Richter, hit central Italy and destroyed or made to become not usefull, without dead people, a lot of house and also the rehabilitation hospital of Cascia in which we had decided to trasfer disable or wounded people for rehabilitation. So all the territories of Cascia Norcia Amatrice, Arquata, and now also Ussita, Camerino, Tolentino etc needs to a new help for all the situation, we was in a real dramatic situation for help people and collegues.
Disability and economic situation

• this EQ is a big problem for this part of Italy because of hit all the economy of area. Stop to roads stop to economy based on agriculture and animals husbandry stop to mountain tourism of the villages stop the people to stay there where it is more difficult than before to stay. But almost 50% of inhabitants choose to remain to live in the EQ areas and so we are trying to restore the organisation of communities in the best way also maintaining rehabilitation services in the territories and helping local rehabilitation teams.
The support to local rehab team

• In another session of this congress dott.Zampolini will present Umbria situation and actions for restore a good rehabilitation service in the EQ for Umbria region.

• We have tried to help local teams of rehabilitation with our presence in the EQ zone and through contact with them and with organisation of therapists and factories for bringing help and objects for start a good rehabilitation for the territories. In this part of Italy the territories are full of mountains and with difficult roads to arrive in. We did the best of the possible against the enormous problems of Italian bureaucracy.
AMATRICE

• Some days ago Officine Rizzoli, a big Italian factory for disabled people, asked Simfer to organize rehabilitation in a container in Amatrice with the possibility to work for a MD and two Physiotherapists, a little room for prothesis and an instruments for telemedicine with satellite connection. We are in those days in contact with local health workers and authorities for evaluation of organisation of rehabilitation job. I stay last week in Amatrice to organise it and I will come back 16 of May.

• Simfer has in stand by about 30 MDs in Rehabilitation for the needs of the EQ if local teams ask for help.

• Also therapists are available.
Lazio Marche Umbria: conclusions

- So while in Marche and Umbria rehabilitation starts immediatly to help people near the EQ zone or into the EQ zone, in Lazio we are trying to restore a rehabilitation service in Amatrice for the 600/900 inhabitants who are now living there in little houses and where is possible to live (tents, caravans and motor caravans) to continue their jobs. Before the EQ the inhabitants were more than 2000.
It is raining….”Govern thief”

• nevertheless italian governement, with a real late, started some weeks ago to bring new houses in Amatrice and Arquata and other villages. Four regions Lazio, Marche, Abruzzo and Umbria, four different administrations and also four different ways to do. Best in Umbria, very good in Marche, good in Abruzzo, not very good in Lazio, Rome's region, where the bureaucracy was/is a very big problem to restart after a dramatic situation. Different in Umbria and Marche where immediately I met administrators who gave me correct answers to do the best.
Arquata del Tronto
Pescara del Tronto
First relief in Amatrice
EQ 2016 in Central Italy
NEAR ARQUATA
CASTELLUCCIO DI NORCIA

EQ 2016 in Central Italy
Norcia
Norcia San Benedetto Cathedral

EQ 2016 in Central Italy
Norcia San Benedict's Cathedral (XIII cent.)
Amatrice

EQ 2016 in Central Italy
Amatrice
pescara del tronto (marche)
MONTE VETTORE - VETTORE MOUNTAIN
CASCIA (UMBRIA)
TOWN OF USSITA

EQ 2016 in Central Italy
CASCIA WITH LOCAL mdS AND SIMFER
PRESIDENT DOTT. BOLDRINI
CASCIA THE SIMFER REHAB TENT
POPE FRANCESCO NEAR THE EQ VICTIMS

EQ 2016 in Central Italy
EQ 2016 IN CENTRAL ITALY

• THANK YOU SO MUCH FOR YOUR ATTENTION